SWRM 2022 Executive Committee

Agenda Book

November 9, 2022

Hilton Baton Rouge Capital Center
Baton Rouge, LA

SWRM Executive Board Meeting
78th SWRM Meeting
Wednesday, November 9, 2022
8:00-11:30am

(Breakfast for board members and invited guests available at 7:30am)

Heidelberg Room
Hilton Baton Rouge Capital Center, Baton Rouge, LA

Agenda

Time	Item		Page
8:00	Call to Order and Introductions	Hathaway	1
	Chair's Report	Hathaway	3
	Secretary's Report		
	2021 SWRM Board Minutes **(Action Required)**	Franklin	13
	Treasurer's Report	Franklin	
	2021/2022 Financials **(Action Required)**		17
	2022 Dues		19
	2021 and Older Dues		20
	Budget		21
	Awards Committee Report	Hubbard	23
8:30	Reports from SWRM Meetings		
	2021 (Nov 10-13), Austin, Final Report	Kneeland	25
	2022 Baton Rouge, Initial Report	Varnado	oral
	2023 Oklahoma, Update Report	Frech/Blum/ Bumm	119
	2024 Heart O'Texas, (vote preliminary budget) **(Action Required)**	Kane	xx
	2025 Joint SERMACS (host)/SWRM	Chouinard	125
	2026 Dallas-Fort Worth,	Stefan	oral
	2027 Lubbock Bid Proposal **(Action Required)**		xx
10:15	Other Old Business	Hathaway	
	Board Breakfast		
10:30	New Business		9 and
	Requested Bylaw Change by ACS **(Action Required)**	Hathaway	129
	Comments from other Regional Board Chairs		oral
10:45	ACS Staff Report		oral
	Supplemental		
	Bylaws		127
	Past and Future Meeting Locations		133
	Rotation Schedule		137
	Past Award Recipients		138
11:30am	Adjourn		

Next SWRM Executive Board Meeting: November 18, 2023 at 8:00am – 11:30am in Oklahoma City.
Written reports for the agenda book due October 30, 2023.

Elected SWRM Board Officers

Chair (2024)

Ruth Hathaway
East Texas Section
2201 Horseshoe Ln, #204
Longview, TX 75605
903-918-3794
ruthhathaway@msn.com

Vice Chair (2025)

Sara Hubbard
Central Arkansas Section
Ouachita Baptist University
410 Ouachita St, Box 3664
Arkadelphia, AR 71998-0001
hubbards@obu.edu

Secretary-Treasurer (2026)

Bryan Franklin
Baton Rouge Section
2526 Stonebridge Dr
Baton Rouge, LA 70810
225-223-3591
navree@cox.net

Southwest Region Sections

Baton Rouge
Brazosport
Central Arkansas
Central Texas
Dallas-Fort Worth
East Texas
Greater Houston
Heart O' Texas
Louisiana
Northern Oklahoma
Northwest Louisiana
Oklahoma
Ouachita Valley
Panhandle Plains
Permian Basin
Rio Grande Valley
Sabine-Neches
San Antonio
South Plains
South Texas
Southwest Louisiana
Texas A&M
Tulsa
University of Arkansas
Wichita Falls-Duncan

Highlights from SWRM 2021

SWRM 2021 in Austin had 950 people registered for the meeting. Attendance in sessions was good with at least 30 in each one.

Future SWRM meetings:

2022 – November 6-9, Downtown Hilton, Baton Rouge, LA

2023 – November 15-18, Oklahoma City, OK (The preliminary budget for the meeting was approved)

2024 – October 20-24, Waco, TX

2025 – Joint with SERMACS – October 19-22, Orlando, FL

2026 – Awarded to Dallas-Fort Worth

Bryan Franklin (Baton Rouge Section) was elected as the next Secretary-Treasurer. We appreciated the years that Sean Hickey served in that position. The transition will happen at the end of the year.

There was a brief discussion regarding we operate on a negative budget (we spend more than we take in). One of the areas is the Board meeting. I would appreciate your thoughts regarding if we should continue doing a breakfast. The cost of just the food is about $1000 – which helps the organizing committee meet their food and beverage budget. If we did not do food with the meeting, it would have a positive impact on our board budget.

Ruth

SWRM 2022 and Board Information

RUTH HATHAWAY <ruthhathaway@msn.com>

Tue 5/17/2022 11:18 AM

To: lbutler@lsu.edu <lbutler@lsu.edu>;ssarora@dow.com <ssarora@dow.com>;henrynorth11@gmail.com <henrynorth11@gmail.com>;dianemargaretkneeland@gmail.com <dianemargaretkneeland@gmail.com>;Stefan, Mihaela C <mihaela@utdallas.edu>;Sean Butler <sbutler@uttyler.edu>;emeamba@yahoo.com <emeamba@yahoo.com>;clawren2@xula.edu <clawren2@xula.edu>;chenzh@cpchem.com <chenzh@cpchem.com>;jbaricuatro@yahoo.com <jbaricuatro@yahoo.com>;jeanne.bolliger@okstate.edu <jeanne.bolliger@okstate.edu>;murru@ulm.edu <murru@ulm.edu>;gregory.mcgovern.phd@gmail.com <gregory.mcgovern.phd@gmail.com>;Kathryn Louie <klouie@suddenlink.net>;xli4@utep.edu <xli4@utep.edu>;ozge.sen@lamar.edu <ozge.sen@lamar.edu>;maritzavquintero@gmail.com <maritzavquintero@gmail.com>;Yan, Juchao <Juchao.Yan@enmu.edu>;dangalvan81@gmail.com <dangalvan81@gmail.com>;jguei@mcneese.edu <jguei@mcneese.edu>

Cc: Daniel Varnado <Daniel.Varnado@albemarle.com>;Bryan Franklin <navree@cox.net>;Sara Hubbard <hubbards@obu.edu>;Kane, Bob <Bob_Kane@baylor.edu>;Cheryl Frech <cfrech@uco.edu>;Blum, Frank <fblum@okstate.edu>;Lloyd A Bumm <bumm@ou.edu>;bfeske@georgiasouthern.edu <bfeske@georgiasouthern.edu>

Chairs:
Below is information regarding this fall's SWRM meeting. Please share the information below with your board and section. If you are no longer the chair of your section, please forward to the correct one.

The call for papers for the 2022 Southwest Regional Meeting of the American Chemical Society has been issued. The meeting will take place on November 6-9, at the Hilton Baton Rouge Capitol Center in Baton Rouge, Louisiana.
Details, including names and contact information for program and session chairs, can be found on the meeting website at SWRM.org.
The theme of the SWRM 2022 is "Transformational Chemistry and Energy in the Gulf South". This meeting will feature 19 symposia in various fields of chemistry, general oral presentations, undergraduate and general poster sessions, exhibitions, workshops, receptions, and banquets. The keynote speakers are LSU Boyd Prof. Isiah Warner and LSU Boyd Prof. Gabriela Gonzalez.

The symposium sessions include
"Analytical and Materials Chemistry Symposium in Honor of LSU Boyd Professor Isiah M. Warner"; "Cope Scholar Symposium – Catalysis in Organic Synthesis"; "Transformational Nanoscience"; "Women Chemists Symposium: Transforming into Leaders"; "How to Strengthen and Promote Diversity in the Chemical Sciences: Lessons Learned and Taught from the Stories of Recipients of the Stanley C. Israel Award"; "Supramolecular and Organic Materials Chemistry"; "Making Strides in Shifting Paradigms within Chemistry Education Research and Practice"; "Heterogeneous Catalysis Symposium"; "Sources, Transport, and Fate of Metals in the Environment"; "The Development of Analytical Methods to Measure Trace Metal Concentrations and Their Chemical Speciation in Environmental Media (Air, Water, Soil)"; "Physical Chemistry of Liquids"; "Recent Advancement and Applications in Organic Synthesis"; "Chemical Biology Symposium"; "Inorganic Symposium: Energy and the Environment"; "Energy and Materials Symposium"; "The Beauty of Polymers with Increasingly Complex Architectures"; "ACS DFW Wilfred T. Doherty Award Symposium"; "Recent Advances in Industrial Chemistry"; "The Entrepreneurs' Tool-Kit"; as well as general oral presentations and poster sessions.
ACS's Meeting Abstracts Programming System (MAPS) opens on June 27th for abstracts. Please visit either the symposium website or MAPS at maps.acs.org, to submit an abstract. **Abstracts are due**

August 8th.

Help us recognize research, teaching, and service excellence in the ACS Southwest Region! The following awards will be presented during SWRM 2022 in Baton Rouge, LA:

- **ACS CHED Southwestern Regional Award for Excellence in High School Teaching**- Our High School Teachers are too often under appreciated. Help us support these efforts by nominating the most talented teacher in your Section (https://www.acs.org/content/acs/en/funding/awards/regional-awards-for-excellence-in-high-school-teaching.html).
- **ACS E. Ann Nalley Regional Award for Volunteer Service**- This award recognizes ACS volunteers who have contributed significantly to the Society, particularly at the SW Region level. (https://www.acs.org/content/acs/en/funding/awards/e-ann-nalley-regional-awards-for-volunteer-service.html)
- **ACS Stanley C. Israel Award for Advancing Diversity in the Chemical Sciences**- Do you have someone in your Section who has worked to promote diversity and inclusion in chemistry? Learn more about this award and how to nominate a colleague or yourself for it! (https://www.acs.org/content/acs/en/funding/awards/stanley-israel-regional-award-for-advancing-diversity.html)
- **SW Regional Award for Excellence in High School Teaching-T**o recognize, encourage, and stimulate outstanding teachers of high school chemistry in the Southwest Region.
- **Partners for Progress and Prosperity Award**- This is a new award that acknowledges and encourages partnerships between ACS entities and industry, government, non-profits, and other organizations.

Nomination information and instructions are available through the meeting website (https://swrm.org/2022-swrm-conference-2). Deadline for all award nominations is August 1, 2022. Contact Zakiya Wilson-Kennedy at awards@swrm2022.org with any questions.

Reminder: Student Travel Award – SWRM provides up to ten $500 travel scholarships for students who are present papers. Each section may forward **ONE** student for consideration. The deadline is October 9. Reminder – if your section forwards a name, the section must have its SWRM dues current through 2021.

SWRM Executive Board Meeting – please have a person from your section present for this meeting. This does not need to be an officer; it can be a representative appointed by the section. We will meet on November 9 from 8-noon. Breakfast will be served at the 7:30am for board meeting members/representatives. For those sections unable to have a representative present, I will be having a zoom component available. If you have questions regarding the meeting, contact me. If you have questions regarding your dues status, contact Bryan Franklin at navree@cox.net.

SWRM Business items:

1. Update report from Oklahoma (SWRM 2023).
2. Update report and approval of preliminary budget for Waco (SWRM 2024).
3. Update report from SERMACS regarding the joint SERM/SWRM 2025 meeting.
4. Update from Dallas/Ft. Worth (SWRM 2026).
5. Bid proposal for SWRM 2027 from Lubbock.
6. Information only – Little Rock will bid for SWRM 2028 next year.

7. Items for the agenda book are due the end of September.

Thanks for your time!

Ruth Hathaway
SWRM Meeting Board Chair

Re: SWRM 2022 and Board Information

RUTH HATHAWAY <ruthhathaway@msn.com>

Wed 8/24/2022 9:18 AM

To: lbutler@lsu.edu <lbutler@lsu.edu>;ssarora@dow.com <ssarora@dow.com>;henrynorth11@gmail.com <henrynorth11@gmail.com>;dianemargaretkneeland@gmail.com <dianemargaretkneeland@gmail.com>;Stefan, Mihaela C <mihaela@utdallas.edu>;Sean Butler <sbutler@uttyler.edu>;emeamba@yahoo.com <emeamba@yahoo.com>;clawren2@xula.edu <clawren2@xula.edu>;chenzh@cpchem.com <chenzh@cpchem.com>;jbaricuatro@yahoo.com <jbaricuatro@yahoo.com>;jeanne.bolliger@okstate.edu <jeanne.bolliger@okstate.edu>;murru@ulm.edu <murru@ulm.edu>;gregory.mcgovern.phd@gmail.com <gregory.mcgovern.phd@gmail.com>;Kathryn Louie <klouie@suddenlink.net>;xli4@utep.edu <xli4@utep.edu>;ozge.sen@lamar.edu <ozge.sen@lamar.edu>;maritzavquintero@gmail.com <maritzavquintero@gmail.com>;Yan, Juchao <Juchao.Yan@enmu.edu>;dangalvan81@gmail.com <dangalvan81@gmail.com>;jguei@mcneese.edu <jguei@mcneese.edu>

Cc: Daniel Varnado <Daniel.Varnado@albemarle.com>;Bryan Franklin <navree@cox.net>;Sara Hubbard <hubbards@obu.edu>;Kane, Bob <Bob_Kane@baylor.edu>;Cheryl Frech <cfrech@uco.edu>;Blum, Frank <fblum@okstate.edu>;Lloyd A Bumm <bumm@ou.edu>;bfeske@georgiasouthern.edu <bfeske@georgiasouthern.edu>

Just a friendly reminder that I need any agenda items by September 30, 2022 and written reports by October 15, 2022.

We have one request from ACS to consider:

Bylaws Suggested Change

As everyone is aware, the pandemic caused significant challenges and forced organizations to change in-person meetings to remote meetings. ACS recently became aware of a change to the DC Code where remote member meetings are allowed only if it is expressly permitted in the organization's articles of incorporation or bylaws. If the articles of incorporation or bylaws are silent on the meeting format, then the organizations were only allowed to hold remote member meetings until February 4, 2022.

Since your region is incorporated in DC, it must comply with the DC Code. Hence, we recommend amending the Region's bylaws to include the necessary language to be compliant with DC law.

Suggested language to include:

"Meetings of the of the Region may be held virtually or through other electronic communications technology in which those in attendance will have an opportunity to read or hear the proceedings substantially concurrently with their occurrence, vote on matters submitted, pose questions, and make comments."

SWRM Executive Board Meeting – please have a person from your section present for this meeting. This does not need to be an officer; it can be a representative appointed by the section. We will meet on November 9 from 8-noon. Breakfast will be served at the 7:30am for board meeting members/representatives. For those sections unable to have a representative present, I will be having a zoom component available. If you have questions regarding the meeting, contact me. If you have questions regarding your dues status, contact Bryan Franklin at navree@cox.net.

SWRM Business items:

1. Update report from Oklahoma (SWRM 2023).

2. Update report and approval of preliminary budget for Waco (SWRM 2024).
3. Update report from SERMACS regarding the joint SERM/SWRM 2025 meeting.
4. Update from Dallas/Ft. Worth (SWRM 2026).
5. Bid proposal for SWRM 2027 from Lubbock.
6. Information only – Little Rock will bid for SWRM 2028 next year.
7. Bylaws suggested change from ACS.

Thanks for your time!

Ruth Hathaway
SWRM Meeting Board Chair

ACS Region Board Information and Contact for Regional Meetings - Southwest

Vranna, Sydney <S_Vranna@acs.org>

Sat 6/4/2022 10:48 AM

To: 'ruthhathaway@msn.com' <ruthhathaway@msn.com>

Dear Mrs. Ruth A. Hathaway, Chair, Southwest Region,

I hope you are well. I am your new overall contact from the ACS staff side for regional meetings. I am reaching out today to introduce myself and give you my contact information (see below in my signature).

In addition, there are a few items ACS is requesting from you. I have listed these below. If you have any questions please reach out to me. I look forward to working with all of you.

Full Board Contact information
Please email me a list of your board members with roles and contact information. If you have this updated and posted on your website, feel free to just send me that link.

Most Recent Bylaws
Please email me a copy of your most recent bylaws so we can ensure ACS has them on file.

Bylaws Suggested Change
As everyone is aware, the pandemic caused significant challenges and forced organizations to change in-person meetings to remote meetings. ACS recently became aware of a change to the DC Code where remote member meetings are allowed only if it is expressly permitted in the organization's articles of incorporation or bylaws. If the articles of incorporation or bylaws are silent on the meeting format, then the organizations were only allowed to hold remote member meetings until February 4, 2022.

Since your region is incorporated in DC, it must comply with the DC Code. Hence, we recommend amending the Region's bylaws to include the necessary language to be compliant with DC law.

Suggested language to include:

"Meetings of the of the Region may be held virtually or through other electronic communications technology in which those in attendance will have an opportunity to read or hear the proceedings substantially concurrently with their occurrence, vote on matters submitted, pose questions, and make comments."

While optional, we urge you to send amended bylaws to the Committee on Constitution and Bylaws for review at bylaws@acs.org.

Sincerely,

Sydney S. Vranna, CMP
Assistant Director, Specialty, Digital, and Global Events
Department of Meetings & Expositions Services
American Chemical Society
1155 16th Street, NW | Washington | DC 20036 | USA
Mobile: +1-202-672-3397
s_vranna@acs.org
www.acs.org/meetings

78th Southwest Regional Meeting of the American Chemical Society
Baton Rouge, LA November 6-9

Dear Potential Sponsor:

The Baton Rouge Section of the American Chemical Society is hosting the 7**8th Southwest Regional Meeting (SWRM) 2022** from November 6 – 9, 2022 in Baton Rouge, Louisiana at the historic Hilton Baton Rouge Capitol Center located near the Mississippi riverfront. During SWRM a special symposium will be held in honor of Boyd Professor Isiah M. Warner. We anticipate a rich scientific forum for this symposium with technical sessions, from leading scientists from around the nation Prof. Warner has impacted in some way. Prominent speakers are featured from academia and local institutions, with a mix of participants from local chemical industries, colleges and universities. Exciting research presentations will cover advanced topics in chemistry such as polymers, analytical chemistry, nanotechnology, physical chemistry, energy and materials, organic synthesis, environmental topics, medical chemistry and chemical biology, supramolecular chemistry, and chemistry education.

This year's 78th SWRM 2022 will feature the Analytical and Materials Chemistry Symposium in Honor of LSU Boyd Professor Emeritus Isiah M. Warner". Professor Isiah M. Warner is a prestigious professor that dedicated almost forty four years to his academic career and held the LSU Boyd professorship. During his academic career he mentored 72 graduate students and 68 of these students graduated with Ph.D. degrees. Professor Warner also held the position of Vice President for Strategic Initiatives at Louisiana State University. In addition to fundamental chemistry research, Dr. Warner has also been committed to outreach, mentoring, and educational opp conducted educational research to enhance and improve education and programs for science, technology, engineering, and mathematics. Please join us in honoring his academic career at this 78th ACS SWRM 2022.

With challenging economic conditions we have made efforts to keep this event as economical as possible. To be as impactful as Prof. Warner has been to the scientific community, we are asking for your support of **$1,200**. If this is not feasible for your organization, feel free to contribute at whatever amount feels most comfortable. We would love for your organization to be represented at this event. Full details of registration fees, deadlines, and hotel information are provided on the meeting web site (https://swrm.org/).

We look forward to your participation in SWRM 2022!

Sincerely,

Rocio Perez, PhD
rperez@georgiasouthern.edu

Tyrslai Williams-Carter, PhD
twil161@lsu.edu

Sponsor Application

In accordance with the Notes and Regulations (below), I (we) apply for sponsorship at the SWRM 2022 ACS Meeting in Baton Rouge, LA, November 6 - 9, 2022.

Please complete the following information on both pages as you would like it to appear in the meeting literature and on the meeting web site.

Name: _____

Title: _____

Company name: _____

Mailing address: _____

City, State, Zip: _____

Phone: _____ Email: _____

Company/academic website link: _____

Authorized signature: _____

Check the boxes below according to your interests and mark the total on the next page:

☐ **Sponsorship ($2,500)**

☐ **Other Amount**

Amount: _____

TOTAL COST: _____ Charge my: ☐ **VISA**, ☐ **MASTERCARD**, or ☐ **AMERICAN EXPRESS**

Name on Card _____ Card Number _____

Expiration date (month/year) _____Security Code: _____ Signature _____

Make checks payable to "**SWRM 2022**" and send checks or credit card info and completed application and contract to: 2526 Stonebridge Dr.
Baton Rouge, LA 70810

Thank you for supporting and participating in Professor Isiah M. Warner Symposium at the SWRM 2022!

2021 SWRM Meeting:

AT&T Hotel and Conference Center, Austin Texas, Zoom and In Person

In attendance via person or zoom:

Baton Rouge: Dan Varnado, Bryan Franklin
Central Arkansas: Sara Hubbard
Central Texas: Diane Kneeland, Margaret Conner
Dallas-Fort Worth: Mihaela Stefan
East Texas: Ruth Hathaway
Greater Houston: Lisa Houston
Heart O'Texas: Bob Kane
Northern Oklahoma: Zhou Chen
Oklahoma: Frank Blum, Cheryl Fretch, Lloyd Bumm, Stephanie Jones
Permian Basin: Katherine Louie
Rio Grande Valley: William Maio
South Plains: Yan Juchao
ACS Staff: Star Gaddis, Kim Savage
Ex-officio: Sean Hickey

Guests: Donivan Porterfield and Donna Nelson

Meeting convened at 8:30 am

1. Introductions:
    a. each member introduced themselves
2. Chair Report (Ruth Hathaway):
    a. no additions to the chair report in the agenda book
3. Secretary Report (Sara Hubbard and Sean Hickey):
    a. no additions to the secretary report
    b. Minutes from last meeting were approved and accepted unanimously
4. Treasurer Report (Sean Hickey):
    a. no additions to the secretary report
    b. Minutes from last meeting were approved and accepted unanimously

5. Awards (Sara Hubbard):

    a. P3
    b. 9 Travel Awards
    c. Both 2020 and 2021 awards were given at the 2021 awards banquet

6. 2021 Meeting Recap (Austin, Diane Kneeland, Margaret Connor):

    a. Great Meeting and attendance
    b. 958 registered, 750 was goal
    c. Everyone was delighted to be in person after last year's cancellation

7. 2022 Meeting Presentation (Baton Rouge, Dan Varnado, Bryan Franklin)

    a. National ACS is including a Force Majeure clause after 2020 cancellations
    b. Hilton Downtown BR is the hotel for the meeting
    c. Dates are November 6th to 9th
    d. Web presence on www.swrm.org

8. 2026 Meeting Bid (DFW, Mihaela Stefan)

    a. 2014 Hotel is not available, so they are investigating other hotels
    b. Fort Worth Convention Center is most likely location for meeting rooms, bargaining has begun with them
    c. Lots of attractions in the vicinity of the convention center
    d. 2014 meeting had depressed attendance since the 2014 National ACS meeting was held in DFW in spring 2014
    e. Bid was approved unanimously

9. 2023 Meeting Update (Oklahoma, Frank Blum, Cheryl Fretch, Lloyd Bumm, Stephanie Jones)

    a. Omni Hotel in Oklahoma City is the hotel for the meeting
    b. Dates are November 15th to 18th (week before Thanksgiving)
    c. Hotel is close to transportation hub (Amtrak, Airport…trolleys to attractions)
    d. $199 room rate, $150 registration fee
    e. Goal of 750 attendees, with aspirations for 1000 attendees
    f. 10 meeting rooms in Omni for breakout sessions
    g. Budget was discussed and approved unanimously

10. 2024 Meeting Update (Waco, Bob Kane)

    a. Downtown Waco is location
    b. Hotels are being negotiated now

c. Waco Convention Center will be used as per last time
d. Downtown Waco has been renovated and lots of activities in the vicinity
e. Dates are October 20th to 24th
f. Last meeting around 900 attendees, goal is for more this time
g. AV was done by organizers last time and may be done this way again

11. 2025 Joint Meeting (SERMACS/SWRM, Orlando, Ruth Hathaway)

a. Dates are October 19th to 22nd
b. Memphis passed on hosting
c. Meeting was opened up to any city and Orlando won the bid
d. 2030 Meeting will be New Orleans but could be opened to any city

12. Old Business

a. SWRM Website, Chris Craddock is webmaster, has been doing a great job, was approved to continue his work
b. Records from 2010 forward are available (minutes, budgets…), we need to look into getting previous records

13. New Business

a. Election of Secretary/Treasurer, Bryan Franklin was nominated and approved unanimously by vote
b. Sean Hickey will stay on till 1/31/2022 and Bryan will start 1/1/2022
c. Hancock/Whitney will remain the bank for all the accounts

14. ACS Staff Report (Star Gaddis, Kim Savage)

a. 2021 meeting was a great success, went very well
b. 159 graduate ACS members 124, graduate nonmembers, 25 postdoc ACS members, 18 postdoc nonmembers, 131 undergraduate ACS members, 78 undergraduate nonmembers, preK-12 1 ACS member, preK-12 16 nonmembers
c. Force Majeure clauses in all contracts going forwards
d. 2-3 years before registration for hotel rate lock
e. Leadership institute is 1/21 to 1/23 in Atlanta

Meeting adjourned at 10:10 AM

Minutes Prepared by Secretary/Treasurer, Sean Hickey: 

January 6, 2022

10/26/2021	DDA 00015	CHECK	DFW-Student Travel Awards (2)	($1,000.00)		$75,458.50
10/31/2021	DEP	CREDIT	Local Section Dues-East Texas		$76.50	$75,535.00
10/31/2021	DEP	CREDIT	Local Section Dues-Witchita Falls		$55.25	$75,590.25
10/31/2021	DEP	CREDIT	Local Section Dues-Rio Grande		$156.75	$75,747.00
10/31/2021	DEP	CREDIT	Local Section Dues-Louisiana		$192.50	$75,939.50
10/31/2021	DEP	CREDIT	Local Section Dues-Ouachita		$100.00	$76,039.50
10/31/2021	DEP	CREDIT	Local Section Dues-DFW		$1,732.25	$77,771.75
10/31/2021	DEP	CREDIT	Local Section Dues-Texas A&M		$526.00	$78,297.75
10/31/2021	DEP	CREDIT	Local Section Dues-Central Texas		$334.00	$78,631.75
10/31/2021	DEP	CREDIT	Local Section Dues-Baton Rouge		$175.00	$78,806.75
10/25/2021	DDA 0013	CHECK	Houston-Student Travel Awards (2)	($1,000.00)		$77,806.75
10/25/2021	DDA 0014	CHECK	Central Arkansas-Student Travel Award (1)	($500.00)		$77,306.75
10/25/2021	DDA 0015	CHECK	DFW Local Section-Student Travel Awards (2)	($1,000.00)		$76,306.75
10/25/2021	DDA 0018	CHECK	South Texas-Student Travel Award (1)	($500.00)		$75,806.75
11/1/2021	DDA 0019	CHECK	Texas A&M-Student Travel Award (1)	($500.00)		$75,306.75
4/20/2022	DDA 0023	CHECK	Permian Basin-Student Travel Award (1)	($500.00)		$74,806.75
		CHECK	Rio Grande-Student Travel Award (1)	($500.00)		$74,306.75
		CHECK	Chris Craddock-October	($50.00)		$74,256.75
11/2/2021	1149	CHECK	Banglin Chen-2021 SWR Award	($2,000.00)		$72,256.75
11/2/2021	1150	CHECK	Brazosport College-2021 P3 Award	($1,000.00)		$71,256.75
	1151	CHECK	Brazosport Local ACS-2021 P3 Award	($1,000.00)		$70,256.75
11/2/2021	1152	CHECK	Jennifer Notz-2021 HS Teacher Award	($1,000.00)		$69,256.75
11/2/2021	1153	CHECK	Martin Perry-2021 Nalley Award	($1,000.00)		$68,256.75
11/2/2021	1154	CHECK	2020 Award luncheon tickets	($360.00)		$67,896.75
11/6/2021	1155	CHECK	Ananda Amarasekara-2020 Israel Travel	($469.35)		$67,427.40
11/5/2021	1156	CHECK	Darren Williams, P3 Travel	($500.00)		$66,927.40
11/5/2021	1157	CHECK	Banglin Chen-2021 SWR Award Travel	($500.00)		$66,427.40
11/5/2021	1158	CHECK	Central Texas-ACS SWRM Board Breakfast	($892.80)		$65,534.60
11/5/2021	1159	CHECK	Martin Perry-2021 Nalley Award Travel	($697.06)		$64,837.54
11/8/2021	1160	CHECK	Julia Chan, Southwest Regional Award Travel	($500.00)		$64,337.54

11/9/2021	1161	CHECK	Jennifer Notz-2021 HS Teacher Award travel	($500.00)		$63,837.54
11/16/2021	1162	CHECK	Sarbajit Banerji-2021 Israel Travel	($500.00)		$63,337.54
11/26/2021	ACH		AMEX Epayment	($364.60)		$62,972.94
12/1/2021	DEP	CREDIT	Local Section Dues-Northern Oklahoma		$60.00	$63,032.94
12/1/2021	DEP	CREDIT	Local Section Dues-South Plains		$57.00	$63,089.94
12/1/2021	DEP	CREDIT	Local Section Dues-Panhandle Plains		$90.50	$63,180.44
12/2/2021	1163	CHECK	Daniel Abede-2021 P3 Travel	($500.00)		$62,680.44
1/14/2022	DEP	CREDIT	Local Section Dues-Central Arkansas		$151.50	$62,831.94
2/22/2022	DDA 0021	CHECK	ACS Award Plaques	($1,208.00)		$61,623.94
4/18/2022	DDA 0022	CHECK	ACS Award Plaque	($192.00)		$61,431.94
5/9/2022	CC	CC	GODADDY.com	($51.83)		$61,380.11
5/9/2022	CC	CC	GODADDY.com	($10.17)		$61,369.94
12/24/2021	1164	CHECK	Sara Hubbard	($443.45)		$60,926.49
7/20/2022	DDA 0025	CHECK	Chris Craddock	($400.00)		$60,526.49
7/20/2022	CC	CC	GODADDY.com	($64.82)		$60,461.67
10/18/2022	DEP	CREDIT	Local Section Dues		$409.00	$60,870.67
10/18/2022	DEP	CREDIT	Local Section Dues		$155.50	$61,026.17
10/18/2022	DEP	CREDIT	Local Section Dues		$534.00	$61,560.17
10/18/2022	DEP	CREDIT	Local Section Dues		$195.00	$61,755.17
10/18/2022	DEP	CREDIT	Local Section Dues		$1,825.50	$63,580.67
10/18/2022	DEP	CREDIT	Local Section Dues		$147.50	$63,728.17
10/18/2022	DEP	CREDIT	Local Section Dues		$67.50	$63,795.67

SECTIONS WITH NO PAST DUES OWED; ONLY 2022 Local Section Dues OWED							
Section	Up to Date on Dues	2022 Count	2022 Dues	No Past Dues Owed	Total Due	When Paid	How
L403 Baton Rouge	Yes	295	$ 147.50	$ -	$ 147.50		
L419 Louisiana Section	Yes	311	$ 155.50	$ -	$ 155.50		
L430 Ouachita Valley	Yes	53	$ 26.50	$ -	$ 26.50		
L446 Central Texas	Yes	609	$ 304.50	$ -	$ 304.50		
L450 Texas A&M	Yes	287	$ 143.50		$ 143.50		
L451 East Texas	Yes	135	$ 67.50	$ -	$ 67.50		
L452 Dallas-Fort Worth	Yes	1068	$ 534.00		$ 534.00		
L457 Northern Oklahoma	Yes	91	$ 45.50	$ -	$ 45.50		
L459 Panhandle Plains	Yes	46	$ 23.00	$ -	$ 23.00		
L461 Rio Grande Valley	Yes	161	$ 80.50	$ -	$ 80.50		
L462 South Plains	Yes	100	$ 50.00	$ -	$ 50.00		
L465 Wichita Falls-Duncan	Yes	43	$ 21.50	$ -	$ 21.50		
L455 Central Arkansas	Yes	254	$ 127.00	$ -	$ 127.00		
TOTAL		3453	$ 1,726.50	0	$ 1,726.50		

SECTIONS WITH 2021 and 2022 Dues OWED							
Section	Past Dues Owed	2022 Count	2022 Dues	2021 Dues Owed	Total Due	When Paid	How
L404 Brazosport	2021	190	$ 95.00	$ 100.00	$ 195.00		
L436 Greater Houston	2021	1631	$ 815.50	$ 1,010.00	$ 1,825.50		
L453 Heart O' Texas	2021	116	$ 58.00	$ 61.50	$ 119.50		
L458 Oklahoma	2021	349	$ 174.50	$ 234.50	$ 409.00		
L460 Permian Basin	2021	78	$ 39.00	$ 64.50	$ 103.50		
L463 Tulsa	2021	126	$ 63.00	$ 83.00	$ 146.00		
TOTAL		2490	$ 1,245.00	$ 1,553.50	$ 2,798.50		

SECTIONS WITH Multiple Years of Back Dues Still Owed							
Section	Past Dues Owed	2022 Count	2022 Dues	Past Due Owed	Total Due	When Paid	How
L401 Northwest Louisiana	2017-2021	63	$ 31.50	$ 516.50	$ 548.00		
L433 Sabine-Neches	2019-2021	43	$ 21.50	$ 85.25	$ 106.75		
L437 Southwest Louisiana	2017-2021	87	$ 43.50	$ 356.50	$ 400.00		
L447 San Antonio	2020-2021	357	$ 178.50	$ 377.50	$ 556.00		
L448 South Texas	2020-2021	151	$ 75.50	$ 152.50	$ 228.00		
L464 University of Arkansas	2019-2021	123	$ 61.50	$ 204.00	$ 265.50		
TOTAL		824	$ 412.00	$ 1,692.25	$ 2,104.25		

OVERALL TOTAL		$ 6,767.00	$ 3,383.50	$ 3,245.75	$ 6,629.25

Southwest Region Membership Counts - August 2022

Code	Local Section	Count
L401	Northwest Louisiana	63
L403	Baton Rouge	**295**
L404	Brazosport	**190**
L419	Louisiana	**311**
L430	Ouachita Valley	53
L433	Sabine-Neches	43
L436	Greater Houston	**1631**
L437	Southwest Louisiana	87
L446	Central Texas	**609**
L447	San Antonio	357
L448	South Texas	151
L450	Texas A&M	287
L451	East Texas	**135**
L452	Dallas Fort-Worth	1068
L453	Heart O' Texas	**116**
L455	Central Arkansas	**254**
L457	Northern Oklahoma	**91**
L458	Oklahoma	**349**
L459	Panhandle Plains	46
L460	Permian Basin	**78**
L461	Rio Grande Valley	161
L462	South Plains	**100**
L463	Tulsa	**126**
L464	University of Arkansas	123
L465	Wichita Falls-Duncan	43
	Totals	**6767**

SWRM Budget

Annual Expenses

Awards			
	Student Travel Award	$	5,000.00
	Awards	$	8,000.00
	Awardee Travel	$	3,500.00
	Awardee Plaques	$	2,000.00
Website			
	Fees	$	200.00
	Maintenance/Development	$	500.00
Leadership Conference		$	1,000.00
Executive Meeting			
	Agenda Books	$	200.00
	Breakfast	$	1,000.00
	Travel	$	2,500.00
Treasurer/Secretary Expenses		$	100.00
TOTAL		**$**	**24,000.00**

Annual Revenue

Local Section Dues		$	5,000.00
10% Income per meeting		$	4,500.00
TOTAL		**$**	**9,500.00**

Potential Net Loss	**Annually**	**$**	**14,500.00**

2022 SWRM Awards
Dr. Zakiya S. Wilson-Kennedy, Chair
Louisiana State University

Stanley C. Israel Regional Award

Angel Martí
Rice University

ACS Division of Chemical Education Southwest Region Award for Excellence in High School Teaching

Ms. Jamie Flint
Spring Woods High School, Houston, TX

E. Ann Nalley Regional Award for Volunteer Service to the ACS Southwest Region

Dr. Faith Yarberry
University of Central Arkansas

Southwest Regional ACS Award

Francois Gabbai
Texas A&M University

Partners in Progress and Prosperity Award (P3)

Michael A. Reynolds	Michael S. Wong and Pedro J. J. Alvarez
Shell USA	Rice University

ACS SWRM Student Travel Award - TBA

2022 Student Travel Awards

1. DFW Chapter – Muhammad Abbas, UT Dallas, nominated by Michaela Stefan
2. DFW chapter – Sophia Jacob, University of North Texas, nominated by Michaela Stefan
3. Oklahoma Section – Rehema Nakiwala, Oklahoma State University, nominated by Jeanne Bollinger
4. Greater Houston Chapter – Jaqueline Soares, University of Houston, nominated by Lisa Houston
5. Central Arkansas Chapter – Hope Murphy, Ouacita Baptist University, nominated by Sharon Hamilton

ACS Meetings and Expositions
Regional Meeting Final Report

Submitted: October 2022

Diane Kneeland, Margaret Connor, Kami Hull, Karen Lewis, Barry Streusand, Eric Bliss, David Harwell, Anting Chen, Mary Kopecki

SWRM 2021
October 31-November 3
Austin, Texas

Table of Contents

I. INTRODUCTION and GENERAL

Submitted by: General Chairs Diane Kneeland and Margaret Connor; Program Chairs Kami Hull and Karen Lewis; Treasurer Malcolm Prouty; Communications Chair David Harwell; Fundraising Chair Barry Streusand.

I.(a) Executive Summary

In the summary include references to the ACS Strategic Plan that illustrate how the meeting and its program fulfill the mission and vision of the Society e.g. membership diversity. Cite examples address the four core strategies:

1. **Be the most authoritative, comprehensive and indispensable provider of chemistry-related information,**
2. **Empower an inclusive community of members with networks, opportunities, resources and skills to thrive in the global economy,**
3. **Foster the development of the most innovative, relevant and effective chemistry education in the world,**
4. **Communicate chemistry's vital role in addressing the world's challenges to the public and policymakers.**

The Central Texas Local Section hosted more than 950 attendees, at one of the first in - person ACS meetings since the pandemic began. The entire meeting was accessible both in-person and virtually for both presenters and attendees.

As an authoritative, comprehensive and indispensable provider of chemistry related information, the regional meeting featured more than 650 oral presentations and more than 250 posters, presented by faculty and students in the Southwest region, delivered over the three and a half day conference, and providing attendees with a much needed venue for research and networking opportunities.

Two half day ACS career workshops were attended at full capacity, providing attendees with skills development opportunities in developing a career path and in interviewing. Walk-in meetings with an ACS Career Counselor was a valuable resource for career exploration.

A safety workshop newly developed by the Office of Safety Programs provided up to date information on chemical safety for undergraduate laboratories.

The Expo and Graduate School Fair featured 15 vendors from the chemistry industry, and 15 graduate programs from the Southwest Region, thus providing attendees with networks, opportunities and resources to grow and thrive in the chemical enterprise.

The presence of 15 ACS accredited graduate programs in chemistry, biochemistry and chemical engineering, provided undergraduate students with a unique opportunity to explore the many pathways available from an undergraduate chemistry program to advanced education. Strategy 3 was also addressed by the 18 posters and 22 oral presentations in Chemical Education and education research presented at the meeting.

Several symposia addressed the ACS Strategy 4, to communicate chemistry's vital role in addressing the world's challenges-the symposia ranged from the entertaining to the sublime. What's in Your Glass addressed the role of chemistry in the beverage fermentation industry; the Chemistry of Hemp addressed challenges in the developing cannabis industry that can be addressed with knowledge of chemistry; the workshop and symposia on Chemistry and Art has applied knowledge of chemistry to art and art history. The plenary symposium on Chemical Innovations for Biology and Medicine was inspired by the research of Dr. Livia Eberlin, an

analytical chemist who has developed a “cancer pen” to diagnose cancer in situ using mass spectrometry.

I.(b) Site and Date Selection

Summarize the process and parameters used to decide on the final location and include criteria that were considered.

The meeting venue considerations were the following:
Location: Austin was considered the most favorable city in the local section because of the number of universities, proximity to major airport, food and entertainment options, and walkability of the city.

The hotel was chosen because of the number of meeting rooms and proximity to the universities and to other hotels, restaurants and the entertainment district. It was in the price range approved in the budget.

The dates were chosen so as not to overlap with home football games at UT, or the Formula One races at Circuit of the Americas.

I.(c) Committee Members

List all committees and their members, being as inclusive as possible of all those who made a contribution with their area of expertise and contact information.

Committee Members

Committee	Members	Email	Expertise
General Programming	Diane Kneeland	dianemargaretkneeland@gmail.com	Logistics
	Margaret Connor	margaretconnor@juno.com	Pre-college education; volunteers
	Barry Streusand	bjs@applanal.com	Career workshops
	Victoria Streusand	victoria.price826@gmail.com	Fun Run organizer
Technical Programming	Kami Hull	kamihull@utexas.edu	Oral symposia; organic chemistry; volunteers
	Karen Lewis	karen.lewis@txstate.edu	Poster symposia; biochemistry
Communications	David Harwell	drharwell@gmail.com	Website design; social media; blog
	Chris Craddock	chriscraddock1201@gmail.com	Webmaster
	Diane Kneeland	dianemargaretkneeland@gmail.com	ACS emails; vendor and grad school invitation packages

Committee	Members	Email	Expertise
	Kami Hull	kamihull@utexas.edu	All invitations and communications with symposia presenters
	Barry Streusand	bjs@applanal.com	Communications with sponsors
	Karen Lewis	karen.lewis@txstate.edu	All invitations and communications with poster presenters
Expo	Anting Chen	antingamychen@gmail.com	Compile lists of vendors and schools; contact for vendors, schools and sponsors; record keeping and logistics of Expo;
	Barry Streusand	bjs@applanal.com	Vendor recruitment
	Diane Kneeland	dianemargaretkneeland@gmail.com	Logistics
Online Program	Anting Chen	antingamychen@gmail.com	Create and manage online program
	Robin Hu	robinfhu@gmail.com	Coding for online program
	Kami Hull	kamihull@utexas.edu	Reports from MAPS
	Karen Lewis	karen.lewis@txstate.edu	Reports from MAPS
Career Services	Anting Chen	antingamychen@gmail.com	Chair
	Diane Kneeland	dianemargaretkneeland@gmail.com	Logistics
	Bill Carroll	wcarroll@indiana.edu	Presenter; Resume Reviews
	Barry Streusand	bjs@applanal.com	Presenter, logistics
Logistics	Eric Bliss	eric_p_bliss@hotmail.com	Volunteer coordination
	Margaret Connor	margaretconnor@juno.com	Volunteer coordination
	Kim Savage	k_savage@acs.org	Meeting logistics, hotel liaison
	Andrea Massengile	A_Massengile@acs.org	Onsite meeting coordination
	Starleetah Gaddis	S_Gaddis-Parker@acs.org	Onsite meeting coordination
	Kami Hull	kamihull@utexas.edu	A/V technical issues
Fundraising	Barry Streusand	bjs@applanal.com	Sponsor recruitment; logistics

Committee	Members	Email	Expertise
	Diane Kneeland	dianemargaretkneeland@gmail.com	ACS sponsors; logistics
Finance	Malcolm Prouty	malcolmdprouty@gmail.com	Treasurer
	Diane Kneeland	dianemargaretkneeland@gmail.com	Budget
Local Section	Heather Flanagan	hlfctacs@gmail.com	Section Chair
Awards	Mary Kopecki	maryk@stedwards.edu	Regional Awards logistics

I.(d) Meeting Organizing Committee Operations

Provide a calendar of the dates and number of times that the organizing committee met and discuss how business was conducted, e.g., phone, email, actual meetings.
Describe strengths and weaknesses of the committee:
- e.g. Did the committee work as a team or was the work concentrated in the hands of a few members?
Include comments about how the committee operation could be improved and describe any additional training that would be useful.

The Local Organizing Committee (LOC) met all together by Zoom only.
There were 13 LOC meetings, beginning 1.5 years before SWRM. Monthly meetings of the LOC began 8 months out from the conference, with weekly meetings starting 2 months out. A high percentage of the meetings were attended by the entire LOC.

Sub-committees met by Zoom primarily. An in-person breakfast meeting took place approximately weekly at venues that accommodated social distancing. This meeting was attended primarily by the Communications, Fundraising and General Programming Committee members, although the Finance Committee attended occasionally.

A monthly Regional Planners Happy Hour was created 8 months out from the meeting and was advertised to all Regional Meeting Planners for any region or year. Planners from SWRM 2022 and 2023 especially were frequently present, but planners from several other regions also attended occasionally.

A Virtual Strategic Planning Retreat (VSPR) was created specifically for the Local Organizing Committee, to help define the work and to ask team members to act as champions for committees. The VSPR was facilitated by Dr. Dave Harwell. This 3 day workshop style meeting took place on Zoom and all LOC members participated. The dates and times were Saturday,

November 7, 9-11am and 2-4pm; Monday, Nov. 9, 6-8pm; and Wednesday, Nov. 11, 6-8pm. The outline for the retreat can be seen below.

SWRM 2021 Virtual Planning Meeting
AGENDA
Session 1: Vision (2 hours)
9:00 am - 11:00 am, Saturday, 7 November

9:00 am	Welcome and Introductions
9:10 am	Setting a vision for SWRM 2021
	• What does success look like?
9:40 am	Who are our customers?
	• What is the primary job that each is trying to accomplish? • What do they need to be successful? • What would attract them to the meeting? • What would scare them away?

Session 2: Environmental Scan (2 hours)
2:00 pm - 4:00 pm, Saturday, 7 November

2:00 pm	What happens at other meetings?
	• What makes them unique? • What do they have that we don't? • What do we have that they don't?
3:00 pm	What are our current commitments and deadlines?
3:30 pm	How are others adapting?

Session 3: Positioning for Success (2 hours)
6:00 pm - 8:00 pm, Monday, 9 November

6:00 pm	What is unique about us?
6:30 pm	What are the key components of our meeting?
7:00 pm	How will we adapt?

Session 4: Operational Plans and Timelines (2 hours)
6:00 pm - 8:00 pm, Wednesday, 11 November

6:00 pm	Review operational plans, time lines and key performance metrics for each operational

Complete Calendar of Planning Meetings of LOC for SWRM 2021

Date	Meeting type	Description	
2-mar-2020	in-person	Finance Committee	Malcolm, Diane
18-jun-202	Zoom	Technical Programming Committee	Kami, Diane
4-jul-2020	Zoom	General Programming Committee	Margaret, Diane
9-jul-2020	Zoom	LOC Meeting	LOC
20-jul-2020	Zoom	General Programming Committee	Margaret, Diane
22-jul-2020	Zoom	Expo Committee	Amanda Brown, Diane
30-jul-2020	Zoom	Technical Programming Committee	Kami, Diane
30-jul-2020	Zoom	General Programming Committee	Margaret, Diane
3-aug-2020	Zoom	Technical Programming Committee	Kami, Diane
21-sep-2020	Zoom	Communications Committee	Dave, Barry, Diane
25-sep-2020	Zoom	LOC Happy Hour	Dave, Barry, Diane
3-mar-2021	Zoom	LOC Meeting	LOC
17-mar-2021	Zoom	Regional Planners Happy Hour	All Regional Meeting Planners
2-apr-2021	Zoom	SWRM 2021 Kick-off	All ACS staff and LOC
2-apr-2021	Zoom	SWRM Technical Programming	Jessica, Kami, Karen, KIm, Dianę
7-apr-2021	Zoom	LOC Meeting	LOC
21-apr-2021	Zoom	Regional Planners Happy Hour	All Regional Meeting Planners
24-apr-2021	Zoom	Symposium Programming	Heather, Kami, Diane
5-may-2021	Zoom	LOC Meeting	LOC
9-may-2021	Zoom	Art+Chemistry Workshop Planning	Sara Hubbard, Diane
12-may-2021	Zoom	Brewing Symposium	Jordan Beaver, Diane
12-may-2021	Zoom	Call for Papers Meeting	Kami, Karen, Diane
14-may-2021	Zoom	Call for Papers Meeting	Kami, Karen, Diane

Date	Meeting type	Description	
19-may-2021	Zoom	Regional Planners Happy Hour	All Regional Meeting Planners
24-may-2021	Zoom	Poster Awards planning	Debbie Crans, Karen, Diane
1-jun-2021	Zoom	Marketing Kick-off	All ACS Marketing and SWRM Marketing Committee
2-jun-2021	Zoom	LOC Meeting	LOC
16-jun-2021	Zoom	Regional Planners Happy Hour	All Regional Meeting Planners
21-jun-2021	Zoom	Symposia Sponsorship	Kami, Barry, Diane
5-jul-2021	Zoom	Awards Speaker Discussion	Mary, Kami, Karen, Diane
7-jul-2021	Zoom	Virtual Career Workshop Discussion	Bryan Tweedy, Kim, Anting, Diane
7-jul-2021	Zoom	LOC Meeting	LOC
12-jul-2021	in-person	SWRM brunch	Dave, Barry, Diane
13-jul-2021	Zoom	Demo of Conference Tracker Software	Dave, Diane
15-jul-2021	Zoom	Demo of Ativ software	Dave, Diane
15-jul-2021	Zoom	Meet with Kim	Kim, Diane
16-jul-2021	Zoom	Expo email message	Anting, Diane
17-jul-2021	Zoom	Mobile app discussion	Dave, Karen, Kami, Anting, Diane
19-jul-2021	in-person	Finance Committee and Communications	Dave, Barry, Malcolm, Diane
21-jul-2021	Zoom	Regional Planners Happy Hour	All Regional Meeting Planners
22-jul-2021	Telephone call	WCC Lunch planning	Eugenia Narh, Diane
26-jul-2021	in-person	SWRM planning breakfast	Dave, Barry, Diane
26-jul-2021	Zoom	Abstracts discussion	Karen, Kami, Diane
28-jul-2021	Zoom	LOC Meeting	LOC
29-jul-2021	Zoom	Meet with Kim	Kim, Diane
2-aug-2021	in-person	SWRM planning breakfast	Dave, Barry, Diane

Date	Meeting type	Description	
4-aug-2021	Zoom	SWRM questions	Dave, Barry, Bill Carroll, Diane
9-aug-2021	in-person	SWRM planning breakfast	Dave, Barry, Diane
16-aug-2021	Zoom	Abstracts discussion	Kami, Karen, Diane
23-aug-2021	in-person	Conference hotel tour	Kami, Karen, Diane
25-aug-2021	Zoom	Program Chair Meeting	Jessica, Kami, Karen, Margaret, Dianę
25-aug-2021	Zoom	LOC Meeting	LOC
26-aug-2021	Zoom	Meet with Kim	Kim, Diane
1-sep-2021	Zoom	Online Program planning	Anting, Robin, Kami, Karen, Diane
8-sep-2021	Zoom	LOC Meeting	LOC
8-sep-2021	Zoom	Hotel contract	Heather, Barry, Dave, Diane
8-sep-2021	Zoom	History of Chem&Art symposium	Sara Hubbard, Mary Virginia Orna, Diane
9-sep-2021	Zoom	Meet with Kim	Kim, Diane
9-sep-2021	Zoom	Contract liability discussion	Star Gaddis-Parker, Kim, Beth Kashawlic, Ken Polk, Heather, Barry, Diane
10-sep-2021	Telephone call	Ruth re: contract liability?	Ruth, Diane
13-sep-2021	in-person	SWRM planning breakfast	Dave, Barry, Diane
14-sep-2021	Zoom	Meet with Kim	Kim, Diane
15-sep-2021	Zoom	Regional Planners Happy Hour	All Regional Meeting Planners
15-sep-2021	Zoom	Online Program planning	LOC
17-sep-2021	Zoom	CUNY inquiry about remote presentation	CUNY rep, Diane
17-sep-2021	Zoom	Discussion with ACS staff	Lily Raines, Kim, Diane
17-sep-2021	Zoom	Contract liability discussion	Barry, Dave, Heather, Malcolm, Diane
18-sep-2021	Zoom	Using Zoom for presenters and attendees	Dave, Kami, Karen, Diane
20-sep-2021	in-person	Fun Run Planning Breakfast	Victoria, Diane, Barry, Dave

Date	Meeting type	Description	
22-sep-2021	Zoom	LOC Meeting	LOC
23-sep-2021	Zoom	Meet with Kim	Kim, Diane
29-sep-2021	Zoom	Career Workshops	Bryan Tweedy, Kim, Anting, Diane
30-sep-2021	Zoom	Sponsorship info to website	Dave, Anting, Diane
1-oct-2021	Zoom	A/V review with Encore	Brown Jarmon, Kim, Kami, Diane
4-oct-2021	in-person	A/V review with Encore onsite	Brown Jarmon, Kami, Diane
5-oct-2021	Zoom	Schedule review	Kim, Diane
12-oct-2021	Zoom	YCC and SWRM	Jana Markey, Tabbetha Bohac, Diane
13-oct-2021	Zoom	Posters and Cvent	Kami, Karen, Diane
13-oct-2021	Zoom	Regional Planners Happy Hour	All Regional Meeting Planners
14-oct-2021	Zoom	Meet with Kim	Kim, Diane
20-oct-2021	in-person	SWRM planning lunch	Dave, Barry, Diane
20-oct-2021	Zoom	LOC Meeting	LOC
21-oct-2021	Zoom	Star’s Virtual meeting training?	Star Gaddis-Parker, Kim, Kami, Diane
21-oct-2021	Zoom	Onsite Logistics Review	Star Gaddis-Parker, Kim, Diane
25-oct-2021	Zoom	Exhibitor Office Hour	Anting, Diane
25-oct-2021	Zoom	Live-Stream Rehearsal	Star Gaddis-Parker, Kim, Kami, Diane
27-oct-2021	Zoom	LOC Meeting	LOC
28-oct-2021	Zoom	Meet with Kim	Kim, Diane
29-oct-2021	in-person	Pre-con meeting at hotel	Charlie Thomas, Jarmon Brown, Starleetah, Andrea, David Bennet, Shannon Ruddy

I.(e) Budget Development

Describe how cost decisions were made for major income/expenses such as Registration, Exhibit Booths, A/V costs, social events, etc.
Do not include budget pages here.

The original budget was created in 2019 using a sample budget from 2016, and using the financial report from SWRM 2011 which was hosted by Central Texas LS. The budget was approved at the 2019 SWRM Board meeting.

Estimated Revenue:
Registration prices were set using the 2019 SWRM prices, including tickets for the awards banquet and other events. Registration revenue was estimated using a registration calculator created after an example from another meeting.
Goals for sponsorship and exhibitor numbers were based on SWRM 2011 participation.
Exhibitor Booth prices were set based on advice from Kim Savage.

Estimated Expenses:
The cost of A/V was estimated from the sample 2016 budget, and was then increased at the suggestion of Kim Savage.
The cost of planning meetings was estimated from the 2016 sample budget.

I.(f) Other/Lessons Learned

The Strategic Planning Retreat proved to be a great way to get an overview of all the tasks that needed to be completed for the meeting. When two team members dropped out and their tasks had to be taken over by others, the tasks were already known.
The LOC meetings kept everyone up to date on progress and problems. Even if a team member is not specifically affected by a problem, they may have helpful suggestions. Having LOC meetings by Zoom was great, much easier and less expensive than meeting in person.

II. MEETING PROGRAM

II.(a) Data

Report the information using a spreadsheet format with the following headings: Name of symposia and general sessions, names of organizers for various symposia with contact info, undergraduate program info, high school teachers' program (if any) and social events. Please include the number of attendees at each presentation/social event.

Symposia and Posters

Title	Type	Organizer	Email	Attendees
Keynote Symposium in Honor of Prof. Livia Eberlin	Oral	Devleena Samanta	dsamanta@northwestern.edu	60
ACS Cope Scholar Symposium in Honor of Prof. RajanBabu	Oral	Jimmy Weaver	jimmie.weaver@okstate.edu	50
Recent Advances in Organic Chemistry	Oral	Kami Hull	kamihull@utexas.edu	50
Diversity, Equity and Inclusion in Chemistry	Oral	Kami Hull	kamihull@utexas.edu	50
The Chemistry of Hemp	Oral	Matt Lasater	matter@jedi.net	40
History of Chemistry and Art	Oral	Sara Hubbard	hubbards@obu.edu	40
Uncovering Chemical Structure & Dynamics with Light	Oral	Sean Roberts	roberts@cm.utexas.edu	50
What's in your glass? Science and Technology of Fermented Beverage Production	Oral	Jordan Beaver	jbeaver@uttyler.edu	30
Biohybrid Macromolecular Systems and Supramolecular Assemblies	Oral	Cassandra Callmann	ccallmann@utexas.edu	30
Chemical Education	Oral	Kami Hull	kamihull@utexas.edu	30
Main Group Chemistry in the Southwest	Oral	Todd Hudnall	hudnall@txstate.edu	50
Bioinorganic Chemistry	Oral	Emily Que	emilyque@cm.utexas.edu	40
MOF Chemistry in the Southwest	Oral	Simon Humphrey	smh@cm.utexas.edu	40
Swish, Boom, Bang: Engaging and Educating Students through Classroom Demonstrations	Oral	Debra Feakes	smh@cm.utexas.edu	15
Materials	Oral	Kami Hull	kamihull@utexas.edu	30
Physical	Oral	Kami Hull	kamihull@utexas.edu	30
Analytical	Oral	Kami Hull	kamihull@utexas.edu	30
Organic	Oral	Kami Hull	kamihull@utexas.edu	50
Inorganic	Oral	Kami Hull	kamihull@utexas.edu	30
Biochemistry	Oral	Kami Hull	kamihull@utexas.edu	40
The Entrepreneurs' Tool-Kit	Oral	Jennifer Maclachlan	pidgirl@gmail.com	40
Materials	Poster	Karen Lewis	karen.lewis@txstate.edu	~500*
Physical	Poster	Karen Lewis	karen.lewis@txstate.edu	~500*
Analytical	Poster	Karen Lewis	karen.lewis@txstate.edu	~500*
Organic	Poster	Karen Lewis	karen.lewis@txstate.edu	~500*
Inorganic	Poster	Karen Lewis	karen.lewis@txstate.edu	~500*
Biochemistry	Poster	Karen Lewis	karen.lewis@txstate.edu	~500*

* Poster sessions were held during coffee breaks, both of which were in the Expo. This number reflects the estimated number of attendees that would have seen the posters during that time.

Social Events and Workshops

Title	Type	Organizer and/or Presenter	Email	Attendees
ACS Career Pathways: Finding Your Pathway	Workshop	Barry Streusand	bjs@applanal.com	41
ACS Career Workshop - Acing the Interview	Workshop	Bill Carroll	wcarroll@indiana.edu	35
Safety Workshop: A Risk-based Approach to Lab Safety in 2-Year & Undergraduate Programs	Workshop	Sammye Sigmann; Kirk Hunter	sigmannsb@appstate.edu ; kirk.p.hunter@gmail.com	12
Chemistry of Art Workshop	Workshop	Sara Hubbard	hubbards@OBU.EDU	39
Sunday Happy Hour	Social Event	LOC	dianekneeland@centraltexasacs.org	>300
Fun Run/Walk	Social Event	LOC	dianekneeland@centraltexasacs.org	39
Womens Chemists Committee Lunch	Social Event	LOC	dianekneeland@centraltexasacs.org	55
Monday Opening Reception	Social Event	LOC	dianekneeland@centraltexasacs.org	200
Senior Chemists Committee Breakfast	Social Event	Arlene Garrison	garrison@utk.edu	36
SWRM Awards Reception Sponsored by ACS Governance	Social Event	ACS Governance	K_Savage@acs.org	>200
SWRM Awards Banquet	Social Event	Mary Kopecki	maryk@stedwards.edu	60

Undergraduate Programming

On Monday, the Undergraduate Poster Session and Competition was held in conjunction with the Graduate School Fair in the Expo Hall/Poster Hall.

There were 114 posters presented during the Monday Undergraduate Poster Competition. The outstanding undergraduate poster presentation in each chemistry subdiscipline received a certificate and an award of $75. Additionally, we awarded a prize for “outstanding virtual poster presentation”, to recognize the work that was presented in the asynchronous virtual poster session, to which presenters submitted a 4-min video recording of their poster and which was available on an unlisted YouTube channel, accessible only via QR code that was displayed prominently during the poster sessions.

The funds for these awards came from donations voluntarily made during conference registration. Our awardees represented seven institutions, including major research universities, primarily undergraduate colleges, and an early-entry college program that enrolls high school juniors and seniors from across Texas.

The outstanding undergraduate poster presentations for the 2021 Southwest Regional Meeting were:

For Analytical Chemistry,
Alexandria Bias
from Oklahoma State University in Stillwater, Oklahoma
Abstract 281, “Single-Point Modeling of Water Using Spherical Harmonics”

For Biochemistry,
Shadler Nguyen
from the University of Texas in Austin, Texas

Abstract 160, “Understanding the Sequence Requirement for NMT’s Lysine Myristoyltransferase Activity”

For Chemical Education,
Lucy Chavez
from Wayland Baptist University in Plainview, Texas
Abstract 301, “Molecular Genotyping the Texas Horned Lizard
(Phrynosoma cornutum) - a Goal for Inquiry-based Learning in Biochemistry”

For Inorganic Chemistry,
Drishti Gupta
from the Texas Academy of Mathematics and Science at the University of North Texas in Denton, Texas
Abstract 316, “Group 13 Catalysts for Methane Activation”

For Materials Chemistry,
Lillian Roe
From Texas State University in San Marcos, Texas
Abstract 322, “Functionalization of PEDOT Nanoparticles of Targeted Delivery to Cancer Cells”

For Organic Chemistry,
Shea Garland
from Texas A&M Commerce in Commerce, Texas
Abstract 327, “Synthesis and Anion Recognition Properties of a Carbazole Capped Porphyrin”

For Physical Chemistry,
Jessica Boette
From the University of Texas in Austin, Texas
Abstract 331, “Synthesis of Tunable Carboxylate-Terminated Diketopyrrolopyrole Ligands for [lead sulfide] Nanocrystal-to-ligand Energy Transfer”

The outstanding Virtual Poster Presentation by an undergraduate chemist was
Kaylee Craig, Cameron University in Lawton, Oklahoma
Abstract 296, “Analysis of Heme-binding Proteins from
Listeria monocytogenes using Differential Scanning Calorimetry”

Conference Program Book

Due to COVID and the hybrid format of the conference, the final conference program was offered only electronically, accessible via the web by link or QR code. The QR code was displayed prominently on signs, on the welcome letter, and on the back of volunteer t-shirts.

Link: http://swrm-2021.s3-website-us-east-1.amazonaws.com/#/by-day/2021-10-30

QR code:

The preliminary conference program, built from the MAPS-sessioned abstracts, is included as a PDF file along with this report. Please note that there are several sessions missing in the preliminary

program; these omissions were rectified in advance of the meeting and corrected in the official online program.

II.(b) Plenary/Keynote Speakers

Plenary Speaker: Dr. Livia Eberlin, Principal Investigator, Baylor College of Medicine
(https://welch1.org/grants-programs/research-grants/livia-schiavinato-eberlin)

Title: “Mass Spectrometry Innovations to Advance Disease Diagnosis and Patient Care”

Keynote Speaker: Professor Eric Anslyn, Welch Regents Chair
University Distinguished Teaching Professor
(https://anslyn.cm.utexas.edu/AnslynWebsite/index.html)

Title: “Eric Loves Jane Austen Novels“

II.(c) Workshops

List the sponsors, topics and number of attendees.

SWRM 2021 Workshops

Title	Presenters	Description	Attended	Sponsors
Safety Workshop: A Risk-based approach to laboratory safety for 2 year and undergraduate institutions	Kirk Hunter, Samuella Sigman	Hands-on workshop centers around the RAMP approach - (Recognize hazards, Assess risks, Minimize risks, and Prepare for emergencies). The workshop leaders were part of the team who created the new ACS on-line course: Foundations of Chemical Safety and Risk Management.	12	ACS Office of Safety Programs
Career Workshop: Finding Your Pathway	Barry Streusand, PhD	Part A: Finding Yourself: Identifying a Career that Matches your Strengths and Values (3hr) Part B: Networking: How to Get Started (1hr)	41	ACS Office of Career Services
Career Workshop: Acing the Interview	William Carroll, PhD	Part A. Setting Yourself Up for Success in an Interview (2hrs) Part B: Making the Most of Your Interview: Outshining the Competition (2hrs)	35	ACS Office of Career Services
Workshop: Chemistry and Art	Dr. Sara Hubbard	Chemistry is all around us, including in art! Participate in several hands-on activities to explore the connection between chemistry and art. Repeat your favorite activities at your home institution. Take art home with you after the workshop!	39	Park Systems

II.(d) Award Presentations

Provide a list of all awards and honorees, with descriptions of any presentations by awardees.

The SWRM Award honorees and families from both 2020 and 2021 were invited to attend the Awards Banquet. The 2020 awardees had already received their plaques by mail but did not have an opportunity to celebrate with family, friends and colleagues. A copy of the Awards Program can be found below, which gives more details about each awardee. Typically, honorees do not choose to give a presentation.

SWRM 2020 and 2021 Regional Awards

Award Title	Description of Award	2020 Honoree	2021 Honoree
Stanley C. Israel Southwest Regional Award	Recognizes individuals and/or institutions that have advanced diversity in the chemical sciences and significantly stimulated or fostered activities that promote inclusiveness within the ACS Southwest Region.	Aderemi Oki, Prairie View A&M University	Sarbajit Banerjee, Current—Davidson Chair Professor of Science, Chancellor EDGES Fellow, Texas A&M University, College Station; At the time of nomination —Professor of Chemistry, Professor of Materials Science and Engineering-Texas A&M Local Section
Southwest Regional ACS Award	Recognizes a person who has made meritorious contributions to the advancement of chemistry, chemical engineering, chemical education, either pure or applied, or to the profession in general.	Julia Chan, Professor of Chemistry & Biochemistry, University of Texas at Dallas-Dallas Fort Worth Local Section	Banglin Chen, Professor of Chemistry, University of Texas at San Antonio-San Antonio Local Section
E. Ann Nalley Regional Award for Volunteer Service to the American Chemical Society	Recognizes the volunteer efforts of individuals who have served the ACS, contributing significantly to the goals and objectives of the Society through their regional activities.	Amber S. Hinkle, Vice President and Plant Manager, Covestro Inc.-Greater Houston Local Section	Martin Perry, Vice Chair, Professional Education, Associate Professor, Pharmaceutical Sciences, UAMS College of Pharmacy-Central Arkansas Local Section
ACS Division of Chemical Education SW Region Award for Excellence in High School Teaching	Recognizes, encourages, and stimulates outstanding teachers of high school chemistry.	Jo L. King, Plano West Senior High School, Plano West Senior High-Dallas Fort Worth Local Section	Jennifer Notz, Science Dept. Chair/ Chemistry Teacher, Jordan High School, Katy ISD-Greater Houston Local Section
Partners for Progress & Prosperity (P3) Southwest Region Award	Recognizes partnerships among industry, academia, government, small businesses and /or other organizations that result in impactful outcomes.	Darren L. Williams, Professor of Chemistry, Sam Houston State University, Leader of the Cleaning Group - Greater Houston Local Section; and Barbara Kanegsber, President, BFK Solutions, LLC	Jennifer Kennon, College/Industry Coordinator, Physical Sciences & Process Technologies Division, Brazosport College; and Daniel Abebe, Associate Research Chemist, Dow Chemical Company-Brazosport Local Section

SWRM AWARDS COMMITTEE (2020)

Mike Adams
Carolyn Burnley
Sarah Hubbard
Mary Kopecki-Fjetland
Bill Maio
Flo Payton-Stewart
Stephan Prilliman
Sarah Weaver
Zakiya S. Wilson-Kennedy

SWRM AWARDS COMMITTEE (2021)

Mike Adams
Julia Chan
Margaret Connor
Stassi Dimaggio
Amber Hinkle
Sara Hubbard
Diane Kneeland
Stephen Prilliman
Zakiya S. Wilson-Kennedy

SWRM AWARDS CHAIR (2020)

Stassi DiMaggio

SWRM AWARDS CHAIR (2021)

Mary Kopecki-Fjetland

ACKNOWLEDGEMENTS

ACS Committee on Minority Affairs
ACS Division of Chemical Education

SOUTHWEST REGIONAL ACS AWARD

Recognizes a person who has made meritorious contributions to the advancement of chemistry, chemical engineering, chemical education, either pure or applied, or to the profession in general

Julia Chan (2020), Banglin Chen (2021)

E. ANN NALLEY REGIONAL AWARD FOR VOLUNTEER SERVICE TO THE AMERICAN CHEMICAL SOCIETY

Recognizes the volunteer efforts of individuals who have served the ACS, contributing significantly to the goals and objectives of the Society through their regional activities

Amber S. Hinkle (2020), Martin Perry (2021)

PARTNERS IN PROGRESS & PROSPERITY

Recognizes partnerships among industry, academia, government, small businesses and/or other organizations that result in impactful outcomes

Darren L. Williams and Barbara and Ed Kanegsberg (2020),
Jennifer Kennon and Daniel Abebe (2021)

ACS DIVISION OF CHEMICAL EDUCATION SOUTHWEST REGION AWARD FOR EXCELLENCE IN HIGH SCHOOL TEACHING

Recognizes, encourages, and stimulates outstanding teachers of high school chemistry

Jo L. King (2020), Jennifer Notz (2021)

STANLEY C. ISRAEL REGIONAL AWARD FOR ADVANCING DIVERSITY IN THE CHEMICAL SCIENCES

Recognizes individuals that have advanced diversity in the chemical sciences and significantly stimulated or fostered activities that promote inclusiveness within the ACS

Aderemi Oki (2020), Sarbajit Banerjee (2021)

SOUTHWEST REGIONAL ACS AWARD
2020

Julia Chan

Professor Julia Chan (B.S. Chemistry, Baylor University; Ph.D. Chemistry, University of California at Davis) began her faculty appointment at Louisiana State University Fall 2000, after spending two years as a National Research Council Postdoctoral Associate at the National Institute of Standards and Technology in the Materials Science and Engineering Laboratory. She is currently a professor at The University of Texas at Dallas and her research effort is focused on the synthesis, crystal growth, and characterization of novel quantum materials.

Prof. Chan has published over 195 peer-reviewed journal articles and given over 150 invited talks. She has graduated 20 Ph.D. students and has mentored over 40 undergraduates in her laboratory. Her awards include the NSF Career Award, American Crystallographic Association Margaret C. Etter Early Career Award, Baylor University Outstanding Alumni Award, Alfred P. Sloan Research Fellowship, Iota Sigma Pi Agnes Fay Morgan Award, American Chemical Society Exxon Mobil Faculty Fellowship in Solid State Chemistry, and one of 12 Profiled in 2002 C&E News series on "Women in Chemistry", highlighting women making an impact in the chemical sciences. In 2019, she received the Wilfred T. Doherty Research & Service Award from the DFW Section of the American Chemical Society. She has served on the Editorial Advisory Board of Chemistry of Materials and Inorganic Chemistry, and editor for Journal of Alloys and Compounds, and currently a Deputy Editor for Science Advances (AAAS). In 2020, on behalf of the Council of the American Association for the Advancement of Science, she was elected to the rank of AAAS Fellow of the American Association for the Advancement of Science for distinguished contributions to the field of crystal growth of highly correlated quantum materials.

SOUTHWEST REGIONAL ACS AWARD
2021

Banglin Chen

Banglin Chen was born in Zhejiang, China. He received his BS (1985) and MS (1988) degrees in Chemistry from Zhejiang University in China, and his PhD (2000) from the National University of Singapore. He worked with Professors Omar M. Yaghi at University of Michigan, Stephen Lee at Cornell University, and Andrew W. Maverick at Louisiana State University as a postdoctoral fellow during 2000–2003 before joining the University of Texas-Pan American in 2003. He moved to the University of Texas at San Antonio in August 2009, and was promoted to be a professor in August 2011, working on multifunctional metal–organic framework and hydrogen bonded organic framework materials. He is a Fellow of American of Association for the Advancement of Science (AAAS) (2017), a Fellow of Royal Society of Chemistry (FRSC) (2019) and a Foreign Fellow of European Academy of Sciences (EURASC) (2019). In 2011, Dr. Chen was ranked as the 15th Top Chemist over the past decade (2000 to 2010) based on the citation impact score by the Thomson Reuters. During 2014–2021, he was chosen annually as a highly cited researcher in Chemistry by the Clarivate Analytics. In November 2018, he received the Humboldt Prize (Humboldt Research Award).

E. ANN NALLEY REGIONAL AWARD
2020

Amber S. Hinkle

Amber S. Hinkle is a Vice President for Covestro, with joint responsibilities as Plant Manager of the Covestro Channelview Texas Site and for operations of the U.S.-based joint venture with LyondellBasell. From 2010 to 2017, she was responsible for Health, Safety, Environment and Quality at Covestro's Baytown, Texas, chemical manufacturing facility. Prior to these roles, she performed numerous functions for Bayer in both polycarbonate and over-the-counter medications manufacturing, including process chemistry, automated test method development, and lab management.

She holds a B.S. degree in Chemistry from the University of Utah and a Ph.D. in Organometallic Chemistry from the University of Washington. Amber has authored several technical publications, edited a book on successful women in chemistry and holds one patent. She has also spoken at the local and national level on such varied topics as her technical work, leadership development, change management and women in science. In 2013, Amber was recognized nationally with a Women in Manufacturing STEP (Science, Technology, Engineering and Production) Award. The STEP Award is presented to women who have demonstrated excellence and leadership in their careers. In 2018, She was featured in BIC Magazine's Profiles in Industry, exploring her role as a chemical plant manager. Amber also has experience in developing leaders, facilitating team-building workshops, and teaching groups on subjects such as accountability, anxiousness, and customer focus; both within Bayer/Covestro and externally. She is Past Chair of the national American Chemical Society's (ACS) Women Chemists Committee and former Committee on Committees Member. She is currently a facilitator for the ACS *Leading without Authority and Strategic Planning* workshops; as well as Councilor for the Greater Houston Local Section and Chair of the ACS Committee on Nominations and Elections. In 2012, Amber received the distinguished honor of becoming an ACS Fellow.

E. ANN NALLEY REGIONAL AWARD
2021

Martin Perry

Marty Perry has a B.S. in chemistry and mathematics from Arkansas Tech University and a Ph.D. in physical chemistry from Oklahoma State University. He did postdoctoral work at the U.S. Naval Academy and currently serves as Vice Chair for Professional Education in the College of Pharmacy at the University of Arkansas for Medical Sciences.

Marty has been active in the American Chemical Society (ACS) for 25 years. His involvement began in the Central Arkansas Section of the ACS and includes holding nearly every executive office including Councilor (2009–present). He was the faculty advisor for the ACS student chapter at Ouachita Baptist University, assisting it in campus and community outreach and in achieving national chapter recognition during his tenure (1998–2016). He then helped establish the ACS student chapter at the St. Louis College of Pharmacy (2016–2019). In the Southwest Region, he was the General Co-Chair for two SWRMs hosted in Little Rock in 2008 and 2018 and has also served on the Southwest Region Board including a term as Chair. Marty is also active in the Division of Chemical Education, participating in ACS Examinations Institute Committees in 2000 and 2002, and currently serving as Alternate Councilor (2021–present) on the Executive Committee, and as Chair of the Regional Meetings Committee (2015–present). At the national level, his service record includes terms on the Society Committee on Education, the Meetings & Exposition Committee, and the Divisional Activities Committee.

Related to his work with the ACS and the Division of Chemical Education, Marty is also active with The Process Oriented Guided Inquiry Learning (POGIL) Project (www.pogil.org). The mission of The POGIL Project is to improve teaching and learning by fostering an inclusive, transformative community of reflective educators who design, implement, assess, and study learner-centered environments. He has organized and facilitated numerous workshops nationally, including at the BCCE, and currently serves as Chair of The POGIL Project's Steering Committee.

PARTNERS IN PROGRESS & PROSPERITY
2020

Darren Williams and Barbara and Ed Kanegsberg

Dr. Williams has 23 years of university teaching experience and research experience in critical cleaning, solvent formulation, and spectroscopy. His research funding has been extremely diverse with large projects for the Department of Energy and the Strategic Environmental Research and Development Program and medium to small projects for NASA-White Sands Test Facility, biobased solvent producers, and global chemical companies. Dr. Williams' Cleaning Research Group students have been successful in Ph.D. programs and in industrial positions as evidenced by frequent requests for the names of upcoming graduates. Dr. Williams received his B.Sc. from the University of Texas at Austin in 1992 and his Ph.D. from Oregon State University in 1997 and now resides in Huntsville, TX where he teaches Physical Chemistry and Forensic Chemistry at Sam Houston State University. He has been a member of the American Chemical Society since 1996 and has served as the President of the Panhandle Plains Local Section of the ACS from 2001–2002.

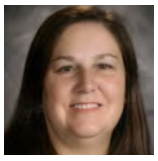
Barbara and Ed Kanegsberg of BFK Solutions are expert consultants in surface quality, process development and analytical chemistry. For over 26 years, they have been working with manufacturers to improve the value of their product through critical and precision cleaning. They address such issues as cleaning efficacy, process monitoring, and regulatory considerations. They also conduct dynamic, interactive workshops and training programs, including the hands-on Product Quality Cleaning Workshops, with Sam Houston State University. They are co-editors of and contributors to the two-volume "Handbook For Critical Cleaning," second edition, CRC Press, 2011.

PARTNERS IN PROGRESS & PROSPERITY
2021

Jennifer Kennon and Daniel Abebe

ACS Brazosport local section (BLS) collaborated with Jennifer Kennon at Brazosport College (BC) in Lake Jackson, TX to establish an ACS student chapter and work closely to further STEM education with workshops and outreach activities. Representing the ACS Brazosport section is Daniel Abebe, Associate Research Scientist at Dow Chemical Company and 2021 local section chair. Daniel joined Dow in 2017, following postdoctoral work at the University of Mississippi. Daniel obtained his PhD in Analytical chemistry from the University of Memphis in 2014. Jennifer is the College and Industry Coordinator for the Physical Sciences and Process Technologies (PSPT) at Brazosport College, has been working with the chemical industry in Brazoria County for over 10 years. Jennifer began working with the chemical industry by coordinating training opportunities on site at the college for new or existing employees covering topics such as professional development, safety, and technical training, as required by industry standards.

The partnership between ACS BLS and Brazosport College began in early 2021. ACS BLS members participated in the annual Spring Career Readiness Workshop organized by BC to train students with soft skills needed to secure a career in the chemical industry. After this event, it was determined that an ACS student chapter would provide an opportunity to continue the collaboration between the two organizations. By creating the student chapter, ACS could provide year-round educational and mentoring opportunities to the well over 500 students in the PSPT division STEM courses and multiple career fields. The initiation and fostering of collaborative relationship between the two organizations will have significant impact on the local community by offering exposure to a community not previously served, providing the opportunity to advocate for chemistry and improve public perception, promoting career advancement opportunities for Brazosport College students through local ACS networking, mentorship and resources, and last, supporting STEM education and advance research and development initiative of all kinds.



EXCELLENCE IN HIGH SCHOOL TEACHING
2020

Jo L. King

Jo L. King teaches AP Chemistry at Plano West Senior High in Plano, TX and is currently learning the nuances of virtual teaching. In her many years of teaching, Jo has taught many levels of high school chemistry: on-level, Pre-AP, AP, Dual Credit, Organic, and Biochemistry. She received her B.S. in Psychology with a minor in Chemistry from Midwestern State University, her M.A. in Religion from Wayland Baptist University, and her M.S. in Chemistry-Chemistry Education from the University of North Texas. She is in her 33rd year of teaching chemistry. She is currently the co-chair of the ACS Pre-College Committee for the Division of Chemical Education. She has been a Reader for the AP Chemistry exam for the past seven years. She was a pre-college co-chair for BCCE 2010 hosted in Denton. She was also a co-program chair for the international ChemEd 2007 conference held in Denton. Jo has served on the ACS Advanced High School Exam Committee and has written questions for the TExES exam for those seeking to become a certified teacher in Texas. She is the sponsor of the Plano West ChemClub and Key Club. Jo has given numerous presentations at local and national meetings. Dedicated to staying current with new techniques, Jo has committed to attending several conventions and workshops each year, and she is also active in a greyhound rescue group.

EXCELLENCE IN HIGH SCHOOL TEACHING
2021

Jennifer Notz

Jennifer Notz graduated from the University of Texas at Austin with a bachelor's degree in chemistry. She also holds a master's degree in epidemiology from the UT-Houston School of Public Health. She has been teaching chemistry since 1993. She has worked in both public and private high schools, and she has served as a teaching assistant for undergraduate chemistry courses at UT. She is currently teaching Chemistry and AP Chemistry at Jordan High School in Katy ISD, where she also serves as science department chair and district lead teacher for AP Chemistry. As an ACS member, Jennifer has recently become involved in the Greater Houston Section, assisting the awards committee and volunteering at the GHS awards banquet. She also encourages and supports her students who wish to compete in the Chemistry Olympiad.

Jennifer is passionate about teaching science to young people, and she is devoted to her students. Her teaching style focuses on conceptual understanding, collaboration and exploration, and inquiry-based investigations. She considers teaching to be her life's work, and she challenges herself to improve her lessons each year. Seeing her students achieve great things in their academic careers and beyond is a powerful motivator to continue working for excellence. She would like to thank her husband Lance, her sons Henry and Oliver, her extended family and friends, and her colleagues for their love and support, and she would especially like to thank her students for helping her to become a better teacher.

STANLEY C. ISRAEL AWARD
2020

Aderemi Oki

Dr. Oki received his B.Sc. from University of Ibadan in 1990, his M.Sc. from University of Ilorin in 1983 and his Ph.D. from University of Wyoming in 1990. He has over 28 years teaching in universities and conducting research for over 30 years. He has been the Department Head of Chemistry (18 years) and Physics (5 years).

He has received various awards and grants since 1993 from American Chemical Society, NIH MBRS, Welch Foundation, NSF and HACH, receiving his highest grant from NIH MBRS at Long Island University for $1.3M from 1995–2001.

His research interest cuts across two major topical areas where he has also demonstrated leadership in specific areas through Peer publications. He is interested in the chemistry of boron, primarily because of the uniqueness of the element and more importantly, the need for boron rich materials and their potential applications in biomedical sciences, specifically, the boron neutron capture therapy for killing cancer cells without compromising the normal cells. This led to his interests in synthetic strategy to make water stable boron rich compounds. He has chaired several conference sessions on boron chemistry and served as major reviewer on the boron proposals both to the National Science Foundation and international community. His group's most recent area of interest is in developing novel composite materials that can be used for bone repairs and bone transplants. Bone defects due to tumor removal, trauma or age-related pathologies or congenital conditions usually require bone replacement. This can be accomplished through transplantation (using autografts or allografts) or through implantation. Implantation involves the substitution of damaged tissues by using, in most cases man made biocompatible materials that can restore, maintain and improve the function of damaged tissues and organs. His group is currently investigating bio-active glasses and composite materials that will serve these purposes. The group's leadership in this area is also exemplified by publications in the field and citations of their work. Dr. Oki continues to mentor young students through classroom and training in his laboratory, especially, underserved students to pursue career opportunities in sciences, and biomedical fields of study.

He received a Lifetime Scholarly Achievement Award in 2001 from Long Island University — the highest faculty honor for scholarly achievement at Long Island University. From 2001–2003 he served on ACS National Award Selection Committee. He is an active member of American Chemical Society, American Ceramic Society, National Organization of Black Chemist and Chemical Engineers, American association of Crime Laboratory Directors, and Council on Chemical Research-CCR.

STANLEY C. ISRAEL AWARD
2021

Sarbajit Banerjee

Sarbajit Banerjee is the Davidson Chair Professor of Chemistry, Professor of Materials Science & Engineering, and Chancellor EDGES Fellow at Texas A&M University. Sarbajit is a past Chair of Texas A&M and Western New York Local Sections. He has accumulated a nationally leading track record of mentoring undergraduate and graduate students as well as post-doctoral colleagues from communities traditionally underrepresented in the chemical sciences—several of whom have gone on to faculty positions and leading positions in industry. He has developed models for building authentic collaborations between large public universities and minority-serving institutions. His record of research and mentoring excellence has been recognized by the Cottrell Scholar Award from the Research Corporation for Science Advancement, the Texas A&M College of Science Undergraduate Research Mentoring Award, Texas A&M College of Science Leadership in Equity and Diversity Award, and the American Physical Society Robert S. Hyer Graduate Student Mentor Award amongst other distinctions. He was named a Fish Camp (Freshman orientation camp) Namesake by the student body at Texas A&M University in recognition of his lasting impact on the community.

STUDENT TRAVEL AWARD
2021

Cameron Lee Lopez
New Mexico State University · Rio Grande Valley

Melissa Orr
University of Texas Arlington · DFW

Peiyu Cai
Texas A&M · Texas A&M

Alshaima'a Qunies
University of North Texas · DFW

Bo Wang
Rice University · Greater Houston

Meng Wang
University of Houston · Greater Houston

Deysha Carrasco
Midland College · Permian Basin

Joshua Spiva
Ouachita Baptist University · Central Arkansas

Juliana Rodriguez
University of Texas Rio Grande Valley · South Texas

SPECIAL THANKS TO

SWRM Executive Board

for their generous help and support of the awards program

II.(e) A/V Arrangements

List the type of media that were used and give approximate percentage use (laptop, LCD, internet, microphones, etc.) and cost.

Symposium Room A/V: Every symposium room had a laptop that was equipped with Zoom and wifi access. The podium microphone output was connected to both the laptop and the built-in room audio. Each presentation room had a built-in projector and projection screen. The A/V in each symposium room was used 100% of the time for which a symposium was in session.

Ballroom A/V: In the ballroom used for the keynote sessions, Senior Chemists Breakfast, Women in Chemistry Luncheon, and award banquet a complete A/V package was used that included a projector screen, projector, audio with mixer (including lavalier microphone for the speaker and a handheld microphone on a stand for audience questions), and curtain backdrop. The A/V in this room was set up on Sunday evening, and used for 50% of the total scheduled conference time.

Cost breakdown for A/V Services

Item	Description	cost	Total
Meeting room A/V equipment	Symposia and workshops in 9 rooms for 3.5 days:	(8x$941.5) + $658 + (9x$941.5) + (9x$470.75) + (5x$00.00)	20,900.25
Ballroom and reception A/V equipment	WCC lunch, SCC breakfast, Plenary, Keynote talks and Governance reception	(2x$2072) + 377.30 + 664.50	$5,186
Technicians Labor	Setup and breakdown for 3.5 days	$2850 + $2470 + $3230 + $950	$9,500
Other	Power cords in Expo for 2 days	58.80	58.80
Total A/V Expenses			**$35,645.05**

Example Invoices:

Labor - Labor 10/31 (10/31/2021 7:00AM - 11:00PM)
Billing Ref: BEO 85490 - Job# 3711-34893

Labor

Qty	Item Description	Rate	OT Rate	DT Rate Days	Reg Hrs	OT Hrs	DT Hrs	Subtotal
Sunday, October 31, 2021								
2	Breakout Technician - FULL DAY	$95.00	$142.50	$190.00	9.00	0.00	0.00	$1,710.00
2	Technician To Set	$95.00	$142.50	$190.00	6.00	0.00	0.00	$1,140.00
	Setup all classrooms and test CVENT connection. Setup screen/projector, mic, PA for Zlotnik 1							
Labor Subtotal								**$2,850.00**
Labor - Labor 10/31 (10/31/2021 7:00AM - 11:00PM) Subtotal:								**$2,850.00**

Classroom 115 - Materials Symposium (10/31/2021 10:20AM - 4:30PM)
Billing Ref: BEO 85494 - Job# 3711-34639

Equipment And Sales

Qty	Item Description	Rate	Ext. Price	Discount Amt	Subtotal
	Video				
1	**Classroom Laser Projection System**	$660.00	$660.00	$198.00	$462.00
	1 *2000-4000 Lumen LCD Projector*				
	1 *Permanent Roll Down Screen*				
	1 *Small Video Cable Lot*				
1	**Production Laptop**	$250.00	$250.00	$75.00	$175.00
	1 *Lenovo T460s Laptop Computer*				
	Laptop to be set and logged into Cvent Attendee Hub				
	Audio				
1	**Podium Microphone Package - Board Room House Sound**	$280.00	$280.00	$84.00	$196.00
	1 *Gooseneck Microphone*				
	1 *Board Room House Sound System*				
	1 *5 Channel Mixer (2 Mono 3 Stereo)*				
1	**USB Audio Interface**	$155.00	$155.00	$46.50	$108.50
	1 *Shure X2U*				
	To route audio from microphone to Zoom call				
Equipment And Sales Subtotal					**$941.50**
Classroom 115 - Materials Symposium (10/31/2021 10:20AM - 4:30PM) Subtotal:					**$941.50**

Zlotnik 1/2 - WCC Luncheon (11/01/2021 12:00PM - 1:30PM)
Billing Ref: BEO 85530 - Job# 3711-34889

Equipment And Sales

Qty	Item Description	Rate	Ext. Price	Discount Amt	Subtotal
	Video				
1	**Enhanced Ballroom Projection Package 7'6"x13'4"**	$2,220.00	$2,220.00	$666.00	$1,554.00
	1 7'6"x13'4" Screen Frame				
	1 7'6"x13'4" Front Projection Surface				
	1 7'6"x13'4" Dress Kit Black				
	1 6500 Lumen 1920x1200 LCD Projector				
	1 Projection Stand 18"-32"				
	1 GAV Cable Lot				
1	**Production Laptop**	$250.00	$250.00	$75.00	$175.00
	1 Lenovo T460s Laptop Computer				
	complimentary for short luncheon				
	Audio				
1	**Podium Microphone Package - House Sound**	$335.00	$335.00	$100.50	$234.50
	1 Gooseneck Microphone				
	1 4 Channel Mixer (4 Mic 1 Line)				
	1 House Sound System				
1	**USB Audio Interface**	$155.00	$155.00	$46.50	$108.50
	1 Shure X2U				
	To route audio from microphone to Zoom call				
Equipment And Sales Subtotal					**$2,072.00**
Zlotnik 1/2 - WCC Luncheon (11/01/2021 12:00PM - 1:30PM) Subtotal:					**$2,072.00**

Zlotnik 1/2 - Keynote (11/01/2021 5:00PM - 6:00PM)
Job# 3711-34645

Equipment And Sales

Qty	Item Description	Rate	Subtotal
1	Existing Equip Setup Rental Fee	$0.00	$0.00
	Carry over of existing equipment from WCC Luncheon (same day rental)		

II.(f) Electronic Abstract Service

Provide commentary on the usefulness of the electronic abstract service (PACS). Identify its most useful aspects as well as those that caused difficulty. Make suggestions about how the service can be improved

MAPS was a difficult system to use for both presenters and organizers. This service does not meet the needs of a modern research conference.

From the organizer side: We strongly recommend that ACS develop an interactive MAPS training for technical program chairs/conference organizers that uses a mock Box spreadsheet and "training meeting" setup in MAPS, so that technical program chairs can experience MAPS and provide informed feedback on symposia schedules and structure before the call for abstracts is issued. This could be followed by a refresher and/or consultation meeting with ACS staff after the abstract deadline but well before the final schedule is due.

This approach would address several challenges that we encountered with MAPS during 2021:

- Pre-set parameters in MAPS restricted our conference schedule to 4-hour blocks. We didn't know this restriction until a few months before the conference, which required us to significantly revise our conference schedule. Similarly, it was not emphasized that the conference organizers (including technical program chairs) would not be able to revise the timeslots on the prepared Box workbooks.
- It was not clear to technical program chairs that a locked schedule was irrevocable, even amid a global pandemic which required flexibility
- It was also not clear to technical program chairs what information needed to be put in to the session assignments of abstracts

More generally, it was very difficult to communicate directly with applicants. This presented particular challenges to planning and preparing for a conference amid a global pandemic, in which we often found ourselves needing to survey attendees' personal risk tolerance as the conference approached, i.e. to better prepare for social distancing or to more accurately revise food/attendance estimates.

For both organizers and presenters: There are two major flaws with MAPS.

(1) MAPS restricts communication to a single corresponding author (the abstract submitter). It is almost mandatory that there be a mechanism to communicate with at least two people per abstract: the presenter (who is often a trainee) and the research supervisor/lab director. This is a problem for both the modern chemical enterprise and chemical research training, in which projects are inherently collaborative and/or in which supervisors must be cc'd on communications with their trainees.

(2) Another critical flaw is that MAPS does not provide an option for late abstract submission, which are inevitable under normal circumstances but was especially challenging during the uncertainty of the pandemic. Conference organizers must enter those abstracts manually. Nearly all major conferences now have "late-breaking abstract" submission processes.

II.(g) Co-sponsorships and Affiliated Meetings

Identify any divisions, committees, and non-ACS societies that sponsored symposia or meetings that were held in conjunction with the regional meeting along with the role they played.
Describe how this opportunity was recognized and pursued.
Comment on the effectiveness of the collaboration.

Symposia Sponsors: (table of just symposium co-sponsors)

Sponsor	Type	Symposia	Role	Recognition
HIST	Division	The History of Art and Chemistry	Co-organizer	In program, at symposium
ORGN	Division	Advances in Transition Metal Catalysis for Organic Synthesis	Funding	In program, at symposium
ANAL	Division	Keynote Symposium: Chemical Innovations for Biology and Medicine	Funding	In program, at symposium
SCHB	Division	The Entrepreneur's Tool-Kit	Funding	In program, at symposium
ORGN	Division	Applications of Synthetic Organic Chemistry	Funding	In program, at symposium

Reception Sponsors: (table of reception sponsors)

Sponsor	Type	Event	Role	Recognition
ACS Governance	Committee	Presidential Reception	Co-organizer, funding	In program, at reception, on website
WCC	Committee	WCC Luncheon	Co-organizer, Funding	In program, at event, on website
PROF	Division	WCC Luncheon	Travel Funding	In program, at event, on website
SCC	Committee	SCC Breakfast	Organizer, Funding	In program, at event, on website

No meetings were held in conjunction with SWRM 2021.
Sponsorship for symposia was solicited by symposia organizers using the following Guidelines and letter template.

Template for Letter to Solicit Symposia Sponsorship:

June 27, 2021

Symposium Organizer
SWRM 2021
Austin, Texas

Dear (Potential Sponsor):

The 2021 Southwest Regional Meeting of the American Chemical is happening with mostly in-person but with some virtual presentations this Fall. I am organizing a symposium presenting research in the area of nuclear chemistry described below:

> "Aspects of Accidental Nuclear Detonation"
>
> Two half day symposia will cover both the theoretical and practical aspects of accidental nuclear detonation presented by leading researchers throughout Texas. Several demonstrations are expected. Thus far almost all speakers are planning to present in-person.

As you are aware much of the laboratory work in this field utilizes your instrumentation. Sponsorship opportunities are available which will enable your company's (technical division's) name to be associated with the symposium. Specifically, I would like to ask for you to sponsor both symposia. The cost for a shared sponsorship is $500 for half-day symposium or $2000 for the exclusive sponsorship of a half-day symposium. A description of other sponsorship opportunities for SWRM 2021 is attached.

SWRM 2021 will be one of the first in-person chemistry conferences since the shutdown. While registration has not opened yet, we are seeing a very high level of acceptance among invited speakers with the vast majority saying they will present in person. We are optimistic that this will be a very successful meeting.

Please feel free to contact me for further information or for me to put you in touch with our sponsorship chair.

Sincerely,

Wally Q. Warthog, Ph.D.
Symposium Organizer

Associate Professor
University of Western Travis County
123@445566.edu
512-123-4567

Guidelines for Symposia Sponsorships:

1. Symposia Allocations
    a. Each half day symposia will receive $500 from SWRM 2021 which can be allocated at the discretion of the symposium organizer for approved uses.
    b. Pre-approved uses include registration costs, reasonable travel costs, and symposium group lunch, dinner, or social gathering.
    c. Other uses require pre-approval from the SWRM Program Chair, Dr. Kami Hull and SWRM General Chair, Dr. Diane Kneeland.
    d. In all cases, receipts or other documentation are required for reimbursement.
    e. The conference is supplying all room fees, AV, etc. so the grant is only for the purpose of enhancing your symposium.
2. Sponsorships
    a. It is hoped that symposium organizers will assist in raising additional funds for their symposium.
    b. A list of sponsorship opportunities is attached or will be available soon to show the opportunities. In most cases multiple sponsors are encouraged.
    c. All funds raised will be paid directly to SWRM 2021 which has a not-for-profit designation.
    d. An example symposium sponsorship request form is attached to assist you in this effort.
    e. Funds ~~in~~ raised in addition to the $500 granted from the conference will be shared with the conference. For any funds raise over original grant, 50% will go to offset the cost of the conference and 50% will be available for approved uses by the symposium organizer. The maximum amount that will be shared with the conference ~~will be~~ is $500. Thus:
        i. Raising $500 will give the organizer a total of $750 to use.
        ii. Raising $2000 will give the organizer a total of $2000 to use.
    f. Possible targets for sponsorships include ACS Technical Divisions and Committees, vendors involved in the work being presented, employers of speakers, etc.
    g. The SWRM 2021 Sponsorship Chair, Dr. Barry Streusand, is also available to help with advice on who to ask, help in actually asking, or encouragement.
3. Fund Distribution
    a. Distribution of funds to speakers will require submission of an expense form to the symposium for approval. These will be forwarded to the Program Chair to be approved and passed on to the payment system.
    b. Receipts must be included with the expense form. In the absence of a receipt, the SWRM 2021 Treasurer will determine what documentation is needed.
    c. If the funds are to be used for registration expenses, a different (hopefully easier) procedure will be communicated as it is developed.

II.(h) Additional Comments/ Lessons Learned

A session/symposium schedule that allows flexibility was very well received - we scheduled longer breaks within the symposia sessions, which coincided with the poster sessions. This was favorably received by participants; in the post-conference survey, several explicitly appreciated both the opportunity to mingle and have more in-depth conversations as well as attend the poster sessions.

However, coffee & snacks routinely ran out during all breaks. The coffee breaks were slightly staggered, so the second group that arrived was left without refreshments. It is recommended that the hotel be directed to put the coffee and snacks out in two increments during each break, to accommodate the symposia attendees that have a later intermission.

Soliciting Sponsorships:
Symposia organizers are the closest to funding sources. Communicating an expectation for fundraising along with encouragement, coaching, and templates to lower the activation barrier produced a good result as well as an education for newer symposia organizers.

Feeding people in the Expo:
Consider access to food for exposition exhibitors. While attendees could go off-campus, exhibitors did not have on-site access to reasonable food options (the hotel restaurants were insufficient capacity, COVID restrictions had shut down hotel room service, and corporate exhibitors were minimally staffed and couldn't take turns to leave their booths). Possible options would be to offer add-on meal options (either boxed lunches or controlled-access buffet), structured as an "enhanced" booth option (i.e., basic w/o food, or upgraded w/ on-site food for exhibitors).

Conference Welcome Letter

Welcome!

from

SWRM 2021 General Chair

Dr. Diane Kneeland

We are so glad to welcome you, in person, to the 77th annual Southwest Regional Meeting of the American Chemical Society. We hope you enjoy your experience here in beautiful Austin, Texas.

Where should you eat? See a list of places within walking distance on our blog at swrm.org ! There are discount tickets in the Swag Bag! And, the hotel breakfast buffet is very, very good.

Go to the workshops on Sunday! If you have not already signed up for a career workshop or the safety workshop, you are still welcome to attend, but please arrive at the beginning and stay until the end. Career workshops: Room 103, 8am and 1 pm;
Safety workshop: Room 202, 1-4pm.

Bring your Resume! Resume reviews are available Sunday 2-4pm and Monday 10am-2pm. Sign up at the registration desk.

Carry copies of your resume to the exhibit hall (Monday 10am-7pm; Tuesday 9am-2pm). Exhibitors may be passively or actively recruiting!

Come to Sunday's reception: What are you going to be for Halloween? We'll find out at the Sunday evening reception in the Courtyard!

Visit the Exhibit Hall! The Expo opens Monday at 10am with more than 30 companies and graduate school recruiters. Use that Swag Bag to pick up giveaways.

Come to the Keynote and Governance Receptions! Raise a glass with us Monday in the Exhibit Hall, and Tuesday just outside the Zlotnik Ballroom.

Thanks to the American Chemical Society for all their help facilitating the meeting, including offering the Cvent Virtual Hub to accommodate virtual presenters and attendees. Try it out!

Thanks to the Central Texas Local Section for sponsoring SWRM 2021. Thanks to the local organizing committee, especially Dr. Kami Hull and Dr. Karen Lewis, for countless hours of work to put together a stellar technical program. Choose from nearly 450 oral presentations in more than 50 sessions, and visit more than 250 posters presented during the coffee breaks in the Exhibit Hall. Thanks to Dr. Anting Chen for organizing a great Expo. Thanks to Dr. Chen's husband, Robin Hu, for creating an awesomely accessible schedule, complete with abstracts for each presenter. Use the QR code posted around the conference site and on volunteer t-shirts.

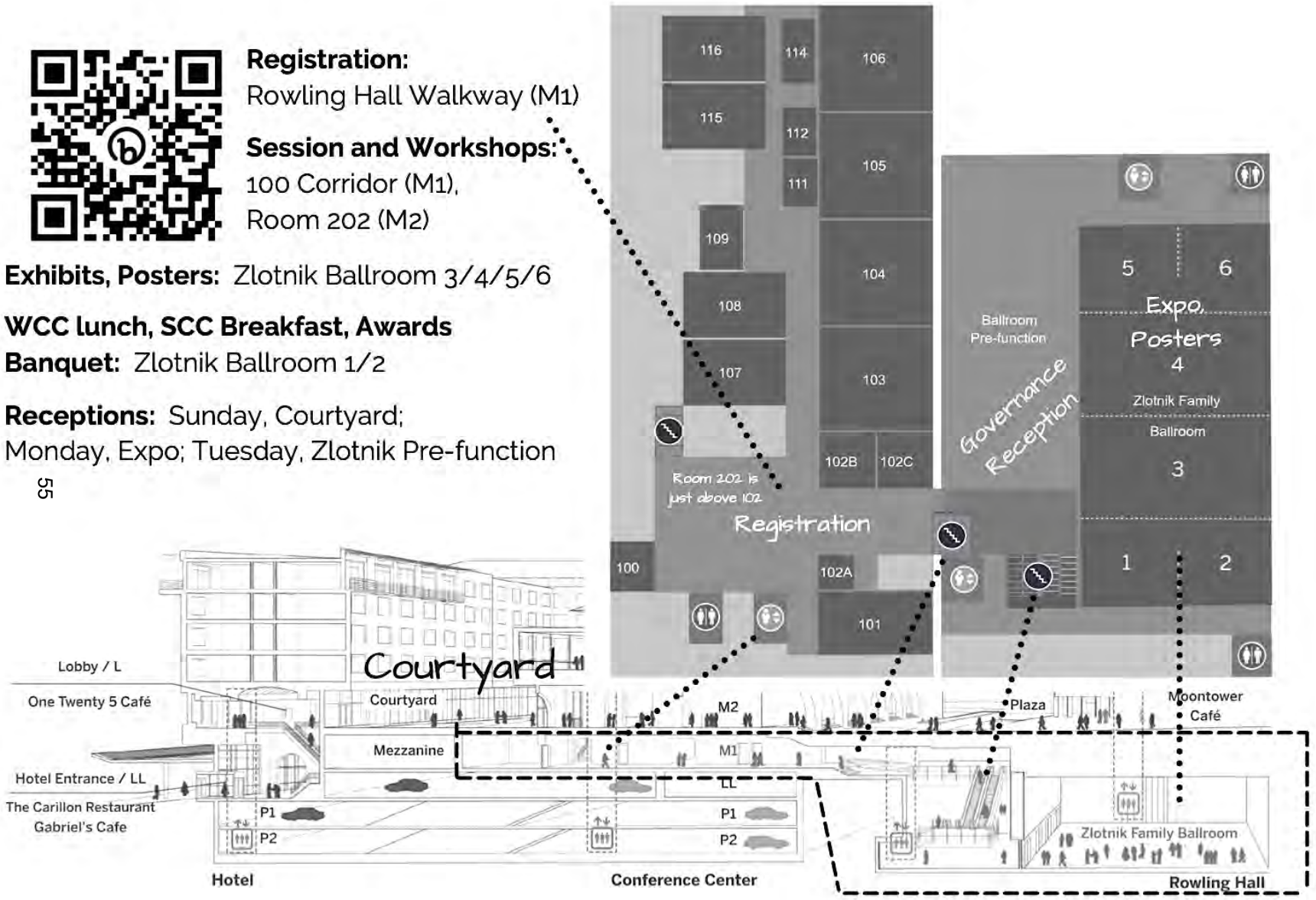
Registration:
Rowling Hall Walkway (M1)

Session and Workshops:
100 Corridor (M1),
Room 202 (M2)

Exhibits, Posters: Zlotnik Ballroom 3/4/5/6

WCC lunch, SCC Breakfast, Awards Banquet: Zlotnik Ballroom 1/2

Receptions: Sunday, Courtyard;
Monday, Expo; Tuesday, Zlotnik Pre-function



III. MEETING FINANCES

III.(a) Budget

Use the spreadsheet template provided. Include the worksheet on registrations and income from various categories of registrants.

SWRM 2021 Financial Report (Complete)			
LINE ITEM	**Amount**	**Totals**	**NOTES**
REVENUES			
Advance from Local Section	10,000.00	**10,000.00**	Transfer from -5136 to SWRM account
Registration Revenue		**81,517.50**	
All registrations	74,237.50		954 attendees
Poster award donations	700.00		$10 x 70
SCC Breakfast	720.00		$20.00 x 36 registrants
ACS Career Workshops-Finding Your Pathway	500.00		41 registrants
ACS Career Workshops-Acing the Interview	410.00		35 registrants
Chemistry and Art Workshop	360.00		$10 x 36
Fun Run	600.00		$15 x 39
Lab Safety workshop	120.00		12 registrants
Awards Banquet	2,520.00		60 registrants
WCC lunch	1,350.00		$20 x 31; $40 x 24
Exposition		**21,500.00**	
Non-profit	**7,500.00**		Graduate programs and other nonprofits
Univ of Evansville	*500.00*		*Exhibitor Standard Package for Non-Profit*
Sam Houston State Univ	*500.00*		*Exhibitor Standard Package for Non-Profit*
Rice	*500.00*		*Exhibitor Standard Package for Non-Profit*
Univ of North Texas	*500.00*		*Exhibitor Standard Package for Non-Profit*
UTSA Dept of Chem	*500.00*		*Exhibitor Standard Package for Non-Profit*
Univ of Arkansas Fayetteville	*500.00*		*Exhibitor Standard Package for Non-Profit - College Recruitment*
Texas A&M	*500.00*		*Exhibitor Standard Package for Non-Profit - College Recruitment*
TX State Univ Materials	*500.00*		*Exhibitor Standard Package for Non-Profit*
Auburn Univ	*500.00*		*Exhibitor Standard Package for Non-Profit - College Recruitment*
Baylor Univ	*500.00*		*Exhibitor Standard Package for Non-Profit - College Recruitment*
Texas Woman's Univ	*500.00*		*Exhibitor Standard Package for Non-Profit - College Recruitment*
UT Rio Grande Valley	*500.00*		*Exhibitor Standard Package for Non-Profit - College Recruitment*
Oklahoma State Univ	*500.00*		*Exhibitor Standard Package for Non-Profit - College Recruitment*
Texas Tech Univ	*500.00*		*Exhibitor Standard Package for Non-Profit - College Recruitment*
UT Dept of Chem	*500.00*		*Exhibitor Standard Package for Non-Profit - College Recruitment*
Regular	**14,000.00**		For profit organizations
Perker Elmer	*1,000.00*		*Exhibitor Standard Package*
IKA Works Inc	*1,000.00*		*Exhibitor Standard Package*
Nanalysis Corp	*1,000.00*		*Exhibitor Standard Package*
Yamazen Science Inc	*1,000.00*		*Exhibitor Standard Package*
TA Instruments	*1,000.00*		*Exhibitor Standard Package*
Park Systems	*1,000.00*		*Exhibitor Standard Package*
Advion Interchim	*1,000.00*		*Exhibitor Standard Package*
Teledyne	*1,000.00*		*Exhibitor Standard Package*
Macherey-Nagel Inc	*1,000.00*		*Exhibitor Standard Package*
Shimadzu Scientific Inst	*1,000.00*		*Exhibitor Standard Package*
JASCO Inc	*1,000.00*		*Exhibitor Standard Package*
Elsevier	*1,000.00*		*Exhibitor Standard Package*
Entegris Inc	*1,000.00*		*Exhibitor Standard Package*
Oakwood Chemical	*1,000.00*		*Exhibitor Standard Package*
Sponsorships and Grants		**17,250.00**	
TCI America	500.00		ACS Cope Scholar Symposium Support
Chemical Abstracts Service	1,000.00		Biohybrid Symposium Support
Tosoh Bioscience LLC	500.00		Biohybrid Symposium Support
Wyatt Technologies	500.00		Biohybrid Symposium Support
Park Systems	500.00		Chemistry of Art Workshop
Perkin Elmer	2,000.00		Fermentatin Symposium Support
CEM Corporation	500.00		Cope Scholar Symposium
ACS Div of Analytical Chem	1,000.00		Keynote Symposium Support
SCC	500.00		SCC Breakfast Sponsorship
3M	1,000.00		Symposium Support
On-Line Instrument Systems Inc	1000.00		WCC Lunch Sponsorship
WCC	250.00		WCC Lunch Sponsorship
PROF	500.00		WCC Speaker Travel Sponsorship (Gloria Thomas)
ACS Governance	2,500.00		Partial support of Governance Reception
LSAC IPG	3,500.00		POGIL workshop for HS Teachers
ACS Publications	1500.00		Unspecified
Advertising and Other		**2,600.00**	
3M	1,000.00		Rotating banner on website
Elsevier	1,000.00		Attendee Emails
Entegris	400.00		Interview Room Reservation
Foresight Chemistry	200.00		Volunteer T-Shirt Logo Placement
Reimbursements for Hotel charges		**1,252.80**	
SWRM	892.80		SWRM Board Breakfast Meeting
SWRM	360.00		Award Banquet Tickets for 2020 Awardees
TOTAL REVENUES		**134,120.30**	

EXPENSES			
Committee Expenses		**2,480.67**	
Meals and Meetings	592.74		Southside Market, Easy Tiger, Pho Thaison, County Line (Diane)
Strategic Planning Meeting	1,000.00		Dave Harwell facilitated a strategic planning meeting by Zoom
Gifts for committee members	337.93		Stemless wine glasses with armadillo logo
Gift for Organizers	550.00		SWRM Oganizing Gift (Heather)
Printing and emails		**1,395.07**	
Mailchimp subscription	25.46		mail messages to exhibitors, high school teachers, ACS governance, etc.
Awards Program	575.74		Award Banquet Materials (Mary) + Certificates (David) + Certificates (Stassi DiMaggio)
Meeting Map and Directional signs	56.65		2x3 Map (Barry)
Welcome flyer	121.24		Welcome Letter x 750 copies (Barry)
Poster directional signs	434.45		3x4 exhibit signage (x2) + 2x3 exhibit signage (x2) (Barry) & sign printing/laminating (Karen)
Toner & paper	137.34		Toner and paper for printing SWRM materials (Anting)
Other Supplies	44.19		Tape/markers (Karen)
Promo items		**4,594.84**	
Swag bags, 750	1,150.36		For the first 750 attendees
Pint glasses, 750	1,643.24		For the first 750 attendees
Volunteer t-shirts 60	595.03		For all volunteers of 1/2 day or more
36 mugs	191.44		gift for symposium organizers
150 Stickers	20.52		Gave away in Expo. Meant for spring 2020 nat'l meeting
Save the date business cards (500)	178.00		Gave away at Fall Nat'l meeting
Fun Run t-shirts	517.25		42 Fun Run t-shirts
Polo shirts for LOC	299.00		$164 (8 Polo shirts for LOC) + $135 (Fun Run t-shirts for volunteer guides)
Hotel			
Food and beverage		**34,844.25**	
coffee breaks	13,251.00		4,037.00 + 4,157.00 + 4,037.00 + 1,020.00
receptions	11,330.00		3390.00 + 3690.00 + 4250.00
awards banquet	4,775.25		4775.25
SCC breakfast	1,664.00		33@$48.00 ea + 80.00 (chef)
WCC lunch	3,104.00		54@56.00 ea + 80.00 (chef)
SWRM Board Breakfast	720.00		15@48.00 ea
F&B Service charges		**8,794.36**	0.24 x F&B + tax on alcohol
Audiovisual Services		**35,912.41**	11102.16 + 13133.90 + 10726.35 + 950.00
Parking Vouchers		**372.00**	31@12.00 ea for volunteers of 1/2 day or more who parked in garage
Sleeping room for speaker		**232.83**	1 night at hotel for WCC speaker
Gratuities		**250.00**	technician, caterer, facilities
Posters		**1,486.51**	
Poster stand rental	0.00		Borrowed from one of the colleges at UT
Easels	136.37		Barry
UT Facilities Services	664.93		Moved stands from storage to hotel and back
Binder clips	85.21		Binder clips to fix posters to stands
Poster awards	600.00		8 x $75 awards
Reimbursements to Symposia speakers and organizers		**5,345.27**	
Spencer Brucks	100.00		
Gloria Thomas	436.53		
Devleena Samanta	1,550.00		
Konrad Miller	185.69		
Jordan Beaver	238.15		
Matt Lasater	260.24		
Carlos Baiz	270.70		
Steven Malcolmson	285.00		
Jimmie Weaver	335.00		
Osvaldo Santacruz	380.00		
Cassandra Callmann	395.25		
Sydney Povilaitis	429.42		
Todd Hudnall	479.29		
ACS handling charge	3,816.00	**3,816.00**	$4 each x 954 registrants
Return of loan from local section	10,000.00	**10,000.00**	Loan from local section
OTHER		**5,288.13**	
Honoraria	1,000.00		Livia Eberlin Honorarium
POGIL workshop	3,500.00		To be paid to the POGIL organization for HS teacher workshop
Table Runner	39.99		For Local Section Expo Booth
Face Masks	18.14		For conference attendees
Safety and Career Workshops	730.00		ACS Safety and Career Workshops rebates
TOTAL EXPENSES		**114,812.34**	
NET		**19,307.96**	

Registration Summary Report

Registration Category	Total Registrants	Total Revenue
50 Year Member	7	$ -
Total 50 Year Member	**7**	**$ -**
Emeritus	4	$ -
Total Emeritus	**4**	**$ -**
Faculty: Pre-College Member	5	$ 120.00
Faculty: Pre-College NonMember	4	$ 160.00
Total Pre-College	**9**	**$ 280.00**
Guest	56	$ 1,590.00
Total Guest	**56**	**$ 1,590.00**
Member	244	$ 36,800.00
Total Member	244	$ 36,800.00
NonMember	59	$ 6,855.00
Total NonMember	59	$ 6,855.00
Retired - Member	11	$ -
Total Retired Member	11	$ -
Student: Graduate Member	158	$ 8,340.00
Student: Graduate NonMember	123	$ 8,815.00
Total Graduate Students	**281**	**$ 17,155.00**
Student: Post-Doctoral Member	25	$ 2,180.00
Student: Post-Doctoral NonMember	18	$ 1,880.00
Total Post-Doc	**43**	**$ 4,060.00**
Student: Pre-College Member	1	$ 100.00
Student: Pre-College NonMember	16	$ 150.00
Total Pre-College Student	**17**	**$ 250.00**
Student: Undergraduate Member	131	$ 3,752.50
Student: Undergraduate NonMember	78	$ 3,315.00
Total Undergraduate Student	**209**	**$ 7,067.50**
Unemployed	6	$ -
Total Unemployed	**6**	**$ -**
Virtual Conference Attendee	8	$ 180.00
Total Virtual Conference Attendee	**8**	**$ 180.00**
Total Attendees	**954**	**$ 74,237.50**
Social Event Workshop Revenue		**$ 7,280.00**
Total Registration Revenue Collected by ACS		**$ 81,517.50**
Minus AT&T Hotel Invoice (ACS Governance paid $2500 of $80,455.85 hotel invoice)		**$77,955.85**
Remaining SWRM Revenue after Hotel Invoice Payment		**$ 3,561.65**
Minus ACS Management Fee (954 Registrants X $4.00)		**$ 3,816.00**
SWRM (Central Texas Local Section) Total Due to ACS (Portion of ACS Management		**$ 254.35**
Partial ACS Management Fee Waived		**$ (254.35)**
Balance Due to ACS		**$ -**

Social Events, Workshops and Other Registration Reveue

Special Event/Workshop,Other	Total Registrants	Total Revenue
$10 Donation to Student Poster Awards	70	$ 700.00
Total Student Poster Awards	**70**	**$ 700.00**
Senior Chemists Committee Breakfast	20	$ 400.00
Total Senior Chemists Committee Breakfast	**20**	**$ 400.00**
ACS Career Pathways: Finding Your Pathway	41	$ 500.00
Total Career Pathways: Finding Your Pathways	**41**	**$ 500.00**
ACS Career Workshop - Acing the Interview	35	$ 410.00
Total Acing the Interview	**35**	**$ 410.00**
Chemistry of Art Workshop	35	$ 360.00
Total Chemistry of Art Workshop	**35**	**$ 360.00**
Fun Run/Walk	39	$ 600.00
Total Fun Run/Walk	**39**	**$ 600.00**
Monday Opening Reception	299	$ -
Total Monday Opening Reception	**299**	**$ -**
Safety Workshop: A Risk-based Approach to Lab Safety in 2-Year & Undergraduate Programs	12	$ 120.00
Total Lab Safety in 2-Year & Undergraduate Programs	12	**$ 120.00**
Senior Chemists Committee Breakfast (1)	16	$ 320.00
Total Senior Chemists Committee Breakfast	**16**	**$ 320.00**
Sunday Happy Hour	288	$ -
Total Sunday Happy Hour	**288**	**$ -**
SWRM Awards Banquet	60	$2,520.00
Total SWRM Awards Banquet	**60**	**$2,520.00**
SWRM Awards Reception Co-Sponsored by ACS Governance	148	$ -
Total Awards Reception ACS Governance	**148**	**$ -**
Women Chemists Committee Lunch (Non-Student)	24	$ 730.00
Women Chemists Committee Lunch (Student)	31	$ 620.00
Total Womens Chemists Committee Lunch	**55**	**$1,350.00**
Total Social Event/Workshops Attendance/Revenue	**1118**	**$7,280.00**

III.(b) Financial Accounts Used by Meeting

Provide data on all accounts that were opened/closed for the meeting (checking, saving, etc, dates opened, credit card accounts, number of checks written for expenses, number of checks written for refunds, etc.)
List all those who had authority for financial transactions.

SWRM Account for Meeting:
Bank of America Account: ACS SWRM 8507
Date Opened: 2011
Credit card accounts: None
Checks written for expenses and or refunds: 25

Authority for Financial Transactions:
Malcolm Prouty, Treasurer
Diane Kneeland, General Chair
Kim Savage, ACS staff

III.(c) Grant Funding for Meeting

Summarize the sources of all grants received along with the specific purpose of each grant. Include copies of any reconciliation forms required by the grantor.

Grants

Source	Purpose	Reconciliation Forms	Note
LSAC IPG	POGIL workshop for High School Teachers	Final report	Not complete
SCC Special Grant	SCC breakfast and presentation	Email report and photos	

III.(d) Additional Comments/ Lessons Learned

The registration calculator, as well as research that we did on meeting demographics from previous years, gave us confidence in setting goals and making decisions about purchases in the months and weeks before the meeting date. We used the demographics from previous years to market the meeting to exhibitors and sponsors in our Prospectus (see the Fundraising Section of this report).

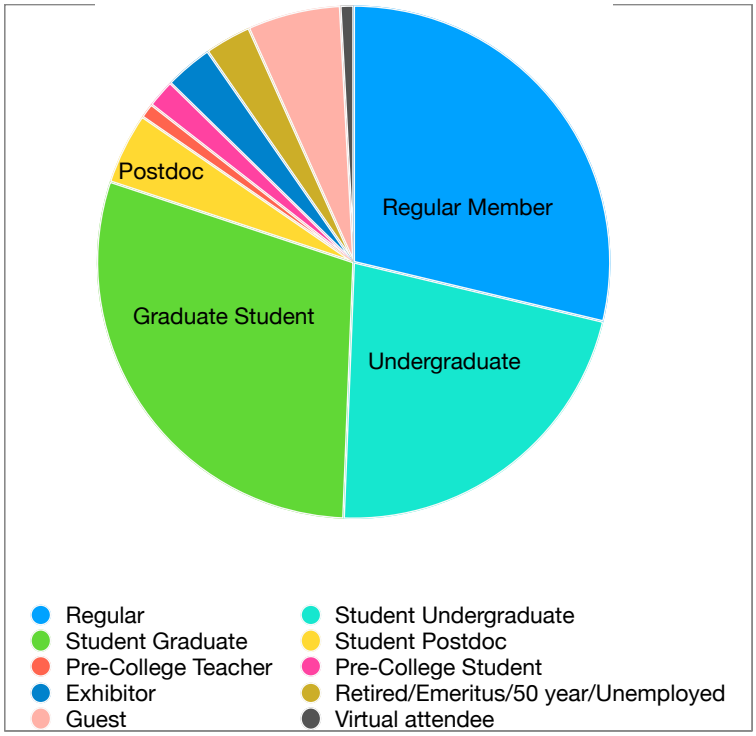
We received an LSAC IPG to have High School teacher programming, but could not attract more than 3-4 high school teacher registrants, probably due to the pressures on teachers to deliver education during Covid. We would like to offer programming in the future when teachers have the time and interest.

We did not receive a template for the Financial reports until our financial report spreadsheet was completed. If a different format or more information is required that was has been submitted, please let us know by contacting the Chair, Diane Kneeland, at dianemargaretkneeland@gmail.com.

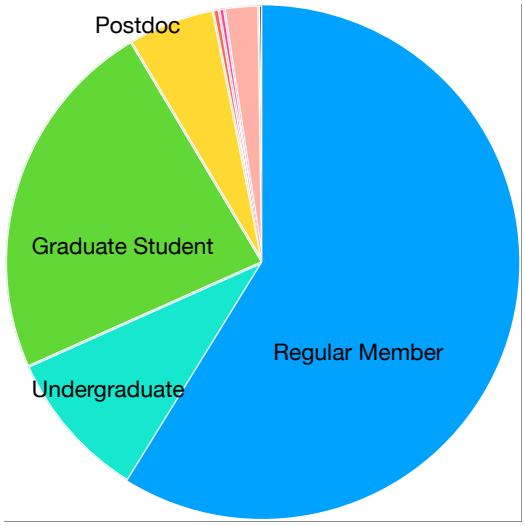
SWRM 2021 Registration Demographics and Revenue

Member Type	Number of Attendees	Percent of Total Registrants	Revenue	Percent of total revenue
Regular	274	29%	$43,655.00	59%
Student Undergraduate	209	22%	$7,067.00	10%
Student Graduate	281	29%	$17,155.00	23%
Student Postdoc	43	5%	$4,060.00	5%
Pre-College Teacher	9	1%	$280.00	0.4%
Pre-College Student	17	2%	$250.00	0.3%
Exhibitor	29	3%	$0.00	0%
Retired/Emeritus/50 year/ Unemployed	28	3%	$0.00	0%
Guest	56	6%	$1,590.00	2%
Virtual attendee	8	1%	$180.00	0.2%
Total	**954**	100%	**$74,237.00**	100%

Demographics

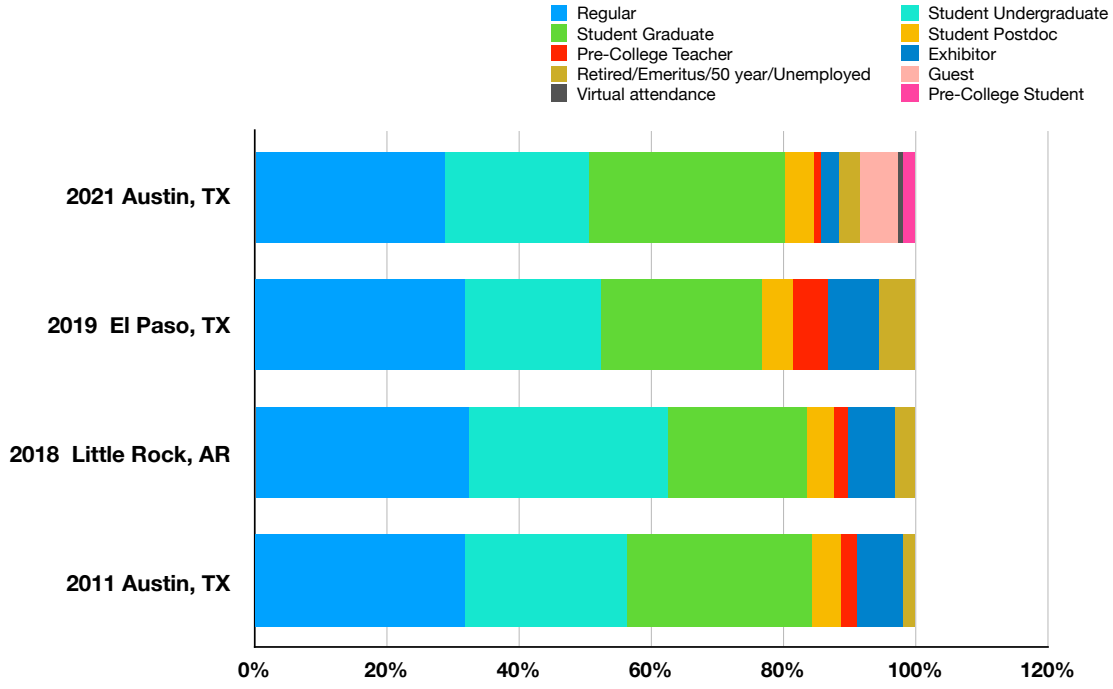


Revenue



SWRM Demographics 2011-2021

	2021 # of attendees	2021 % of total	2019 # of attendees	2019 % of total	2018 # of attendees	2018 % of total	2011 # of attendees	2011 % of total
Location		**Austin, TX**		**El Paso, TX**		**Little Rock, AR**		**Austin, TX**
Member Type								
Regular	274	29%	164	32%	184	32%	366	32%
Student Undergraduate	209	22%	106	21%	171	30%	277	24%
Student Graduate	281	29%	126	24%	120	21%	323	28%
Student Postdoc	43	5%	25	5%	23	4%	50	4%
Pre-College Teacher	9	1%	26	5%	12	2%	25	2%
Pre-College Student	17	2%		0%		0%		
Exhibitor	29	3%	40	8%	40	7%	80	7%
Retired/Emeritus/ 50 year/ Unemployed	28	3%	29	6%	18	3%	23	2%
Guest	56	6%						
Virtual attendance	8	1%						
TOTALS	**954**	**100%**	**516**	**100%**	**568**	**100%**	**1,144**	**100%**



SWRM 2021 Registration Calculator

	Member Advance			Member Late			Non-member Advance			Non-member Late			Total
	Registration Fee	% expected	Total		% expected	Total		% expected	Total		% expected	Total	Total
Regular	$160.00	32%	**$51,200**	$210.00	0%	**$0**	$185.00	0%	**$0**	$235.00	0%	**$0**	**$51,200**
Undergraduate	$25.00	24%	**$6,000**	$40.00	0%	**$0**	$40.00	0%	**$0**	$55.00	0%	**$0**	**$6,000**
Graduate	$50.00	28%	**$14,000**	$70.00	0%	**$0**	$70.00	0%	**$0**	$90.00	0%	**$0**	**$14,000**
Postdoctoral Fellow	$80.00	4%	**$3,200**	$100.00	0%	**$0**	$100.00	0%	**$0**	$120.00	0%	**$0**	**$3,200**
K-12 Teacher	$20.00	0%	**$0**	$40.00	0%	**$0**	$30.00	0%	**$0**	$50.00	0%	**$0**	**$0**
High School Student							$10.00	0%	**$0**	$10.00	0%	**$0**	**$0**
50 yr member	$0.00	0%	**$0**	$0.00		**$0**		0%	**$0**		0%	**$0**	**$0**
Retired	$0.00	0%	**$0**	$0.00		**$0**		0%	**$0**		0%	**$0**	**$0**
Emeritus	$0.00	0%	**$0**	$0.00		**$0**		0%	**$0**		0%	**$0**	**$0**
Unemployed	$0.00	0%	**$0**	$0.00		**$0**		0%	**$0**		0%	**$0**	**$0**
Spouse							$25.00	0%	**$0**	$45.00	0%	**$0**	**$0**
Guest							$25.00	0%	**$0**	$45.00	0%	**$0**	**$0**
													$74,400.00
			Number of attendees:	1000									

IV. FUNDRAISING

IV.(a) Data

Provide information about the sources of fundraising, amounts solicited and received, contact info, etc.

Sponsorships and Grants

Organization	Amount	Description	Contact	Email
3M	1,000	Symposium Support	Susan Woulfe	swoulfe@mmm.com
ACS Chemical Abstracts Service	1,000	Biohybrid Symposium Support	Dr. Peter Carlton	pcarlton@cas.org
ACS Division of Analytical Chem	1,000	Keynote Symposium Support	Miquela Sena	miquela@sciencemanagers.com
ACS Local Section Activities Committee Innovative	3,500	POGIL workshop for HS Teachers	Ben Hall	B_Hall@acs.org
ACS Senior Chemists	500	SCC Breakfast Sponsorship	Arlene Garrison	garrison@utk.edu
ACS Governance	2,500	Partial support of Governance Reception	Kim Savage	K_Savage@acs.org
ACS Division of Professional Relations (PROF)	500	WCC Speaker Travel Sponsorship (Gloria Thomas)	Tom Lane	maingeek1@gmail.com
ACS Publications	1500	Unspecified	Kim Savage	K_Savage@acs.org
ACS Women Chemists Committee	250	WCC Lunch Sponsorship	Amy Balija	amy.balija@gmail.com
CEM Corporation	500	Cope Scholar Symposium	Pamela Breech	pam.breech@cem.com
Oakwood Chemical	1000	Advances in Synthetic Organic Chem Symposium	Will Butler	wbutler@oakwoodchemical.com
On-Line Instrument	1000	WCC Lunch Sponsorship	Julie Ann DeSa Lorenz	julie@olisweb.com
Park Systems	500	Chemistry of Art	Debbie West	debbie@parksystems.com
Perkin Elmer	2,000	Fermentatin Symposium Support	Jeff Brewer	jeff.Brewer@PERKINELMER.COM
TCI America	500	ACS Cope Scholar Symposium Support	Andrew Lindstrom	andrew.lindstrom@tcichemicals.com
Tosoh Bioscience LLC	500	Biohybrid Symposium Support	Phu Duong	phu.duong@tosoh.com
Wyatt Technologies	500	Biohybrid Symposium Support	Lindsey East	least@wyatt.com
TOTAL	**18,250.00**			

IV.(b) Exhibits

Include examples of fundraising letters, flyers, etc.

Letter to a prospective ACS sponsor

From: **Diane Kneeland** dianekneeland@centraltexasacs.org
Subject: Request to have a Senior Chemists Breakfast at SWRM 2021
Date: June 17, 2021 at 5:12 PM
To: Garrison, Arlene Allen (Arlene) garrison@utk.edu
Cc: s_smith@acs.org

DK

Dear Arlene,
I am writing to formally request a special grant of $500 from the Senior Chemists Committee to subsidize a Senior Chemists Breakfast at the upcoming Southwest Regional Meeting in Austin, TX. The funds will be used to subsidize meals so that breakfast tickets will be affordable for seniors. Breakfast tickets will be $20.

Description:
The breakfast will take place on Tuesday November 2, 7-8am, before the symposia begin at 8 am. We have a capacity of 100 in the room; our goal is to attract at least 40 attendees, with a minimum number being 25 attendees. Thank you for agreeing to open the breakfast with introductory remarks about the Senior Chemists Committee, and for bringing literature with you. We will follow the introduction with a panel of 3 senior chemists who will describe what they are doing now, including retirement, second careers, consulting, and more.
The breakfast is estimated to cost at least $32 per plate with service charge of 24% included. Room rental of $750 is waived with a food and beverage guarantee. The local section has agreed to cover costs above the SCC grant.

Here is an approximate budget for the breakfast for the expected 40 or minimum 25 attendees:

Breakfast estimated costs: $32 x 40 = $1220; $32 x 25 = $800

Projector, screen, podium and table microphone for panelists: $300

Tickets for the event: $20 x 40 = $800; $20 x 25 = $500

Cost: $1220 + $300 - $800 = $720; $800 + $300 - $500 = $600

SCC grant = $500

Local section contribution = $220; $100

Thank you for your consideration of this special grant. If you have additional questions, please contact me at 512-577-0083 or dianekneeland@centraltexasacs.org.

Sincerely,
Diane

Diane Kneeland, PhD
Chair, 2021 ACS Southwest Regional Meeting
dianekneeland@centraltexasacs.org
512-577-0083 mobile

SWRM.org
#SWRM2021
Twitter: @SWRMACS
Instagram: @SWRMACS
Facebook: facebook.com/SWRMACS

Sponsorship Request Template for Symposium Organizers (also included in Meeting Program Section II)

June 27, 2021

Symposium Organizer
SWRM 2021
Austin, Texas

Dear (Potential Sponsor):

The 2021 Southwest Regional Meeting of the American Chemical is happening with mostly in-person but with some virtual presentations this Fall. I am organizing a symposium presenting research in the area of nuclear chemistry described below:

> "Aspects of Accidental Nuclear Detonation"
>
> Two half day symposia will cover both the theoretical and practical aspects of accidental nuclear detonation presented by leading researchers throughout Texas. Several demonstrations are expected. Thus far almost all speakers are planning to present in-person.

As you are aware much of the laboratory work in this field utilizes your instrumentation. Sponsorship opportunities are available which will enable your company's (technical division's) name to be associated with the symposium. Specifically, I would like to ask for you to sponsor both symposia. The cost for a shared sponsorship is $500 for half-day symposium or $2000 for the exclusive sponsorship of a half-day symposium. A description of other sponsorship opportunities for SWRM 2021 is attached.

SWRM 2021 will be one of the first in-person chemistry conferences since the shutdown. While registration has not opened yet, we are seeing a very high level of acceptance among invited speakers with the vast majority saying they will present in person. We are optimistic that this will be a very successful meeting.

Please feel free to contact me for further information or for me to put you in touch with our sponsorship chair.

Sincerely,

Wally Q. Warthog, Ph.D.
Symposium Organizer

Associate Professor
University of Western Travis County
123@445566.edu
512-123-4567

Guidelines for Symposium Organizers

1. Symposia Allocations
    a. Each half day symposia will receive $500 from SWRM 2021 which can be allocated at the discretion of the symposium organizer for approved uses.
    b. Pre-approved uses include registration costs, reasonable travel costs, and symposium group lunch, dinner, or social gathering.
    c. Other uses require pre-approval from the SWRM Program Chair, Dr. Kami Hull and SWRM General Chair, Dr. Diane Kneeland.
    d. In all cases, receipts or other documentation are required for reimbursement.
    e. The conference is supplying all room fees, AV, etc. so the grant is only for the purpose of enhancing your symposium.
2. Sponsorships
    a. It is hoped that symposium organizers will assist in raising additional funds for their symposium.
    b. A list of sponsorship opportunities is attached or will be available soon to show the opportunities. In most cases multiple sponsors are encouraged.
    c. All funds raised will be paid directly to SWRM 2021 which has a not-for-profit designation.
    d. An example symposium sponsorship request form is attached to assist you in this effort.
    e. Funds ~~in~~ raised in addition to the $500 granted from the conference will be shared with the conference. For any funds raise over original grant, 50% will go to offset the cost of the conference and 50% will be available for approved uses by the symposium organizer. The maximum amount that will be shared with the conference ~~will be~~ is $500. Thus:
        i. Raising $500 will give the organizer a total of $750 to use.
        ii. Raising $2000 will give the organizer a total of $2000 to use.
    f. Possible targets for sponsorships include ACS Technical Divisions and Committees, vendors involved in the work being presented, employers of speakers, etc.
    g. The SWRM 2021 Sponsorship Chair, Dr. Barry Streusand, is also available to help with advice on who to ask, help in actually asking, or encouragement.
3. Fund Distribution
    a. Distribution of funds to speakers will require submission of an expense form to the symposium for approval. These will be forwarded to the Program Chair to be approved and passed on to the payment system.
    b. Receipts must be included with the expense form. In the absence of a receipt, the SWRM 2021 Treasurer will determine what documentation is needed.
    c. If the funds are to be used for registration expenses, a different (hopefully easier) procedure will be communicated as it is developed.

List of Suggested Sponsorship Opportunities for Vendors

SPONSOR LEVEL		
Choose any combination of items below to be acknowledged as a Platinum, Gold or Silver Sponsor		
Platinum	$10,000	Named first at opening reception; logo at all activities and on website.
Gold	$6,000	Named at opening reception and at sponsored events and on website.
Silver	$2,000	Named at opening reception and at sponsored events and on website.
Sponsor		
Item	***Cost***	***Benefit***
Reception	$5000/$1000	Named as exclusive/one of a group of sponsors of reception on Sunday or Monday
Coffee Break	$3000/$1000	Named as exclusive/one of a group of sponsors of morning or afternoon coffee break (Sunday-Wednesday)
K-12 Teacher Workshop	$3000/$1000	Named as exclusive/one of a group of sponsors of all day POGIL workshop for up to 40 high school teachers
Symposium Sponsor	$2000/$500	Named as exclusive/one of a group of sponsors of a half day symposium
Fun Run	$2000/$100	Named as exclusive/one of a group of sponsors of Sunday morning 5K run. Logo on Fun Run t-shirt.
Swag Bag	$2000/$100	Named as exclusive/one of a group of sponsors of attendee Swag Bag. Logo on bag.
Meeting/ Presentation Room	$200 per 2hrs	Use of breakout room for company presentation, user meeting, interviews, etc.
Advertise		
Advertising in attendee emails	variable	Advertising in daily email/advance emails to conference attendees
Advertising on Website	$1000	Rotating banner on conference webpage
Swag Bag items (non-exhibitors)	$250	You bring it or send it, and we'll stuff it!
Volunteer T-shirt	$200	Your logo on the back of the volunteer t-shirt
Recruit		
Vendor Exhibitor Booth	$1000/$1500	Single/double booth in EXPO
College Recruiter or Nonprofit Booth	$500/$750	Single/double booth in EXPO

Sponsor Poster displayed at the Meeting

IV.(c) Additional Comments/ Lessons Learned

Symposia organizers are the closest to funding sources. Communicating an expectation for fundraising along with encouragement, coaching, and templates to lower the activation barrier produced a good result as well as an education for newer symposia organizers.

The ACS Meetings office supplied us with a list of exhibitors from the most recent national meeting. This was a useful tool.

V. EXPOSITION
V.(a) Data

List the vendors' names, addresses, primary contacts, sponsoring action [booth or coffee break], cost of booths, coffee breaks, etc.

	Company / School Name	Contact	Contact Email	Exhibitor options	Sponsorship/ Advertising	Total invoice
1	Advion Interchim Scientific	Kristy Licari	KLicari@advion.com	Vendor $1000		$1,000
2	Elsevier	Heather Luciano	h.luciano@elsevier.com	Vendor $1000	Reception $1000	$2,000
3	Entegris	Pam Crouch	pam.crouch@entegris.com	Vendor $1000	Interview Rm, 4 hr $400	$1,400
4	JASCO	Kristen Burkhardt	kmiller@jascoinc.com	Vendor $1000		$1,000
5	IKA Works, Inc	Lindsey Carter	lindsey.carter@ika.net	Vendor $1000		$1,000
6	Macherey-Nagel Inc.	Dawn Russup	drussup@mn-net.com	Vendor $1000		$1,000
7	Materials Characterization Services	Dr. Debbie Hess	dhess@mat-cs.com	Vendor $1000		$1,000
8	NT-MDT Spectrum Instruments	Oleg Butyaev	butyaev@ntmdt-si.us	Vendor $1000		$1,000
9	Nanalysis Corp.	Marija Tunic	marija.Tunic@nanalysis.com	Vendor $1000		$1,000
10	Oakwood Chemical	Will Butler	wbutler@oakwoodchemical.com	Vendor $1000		$1,000
11	On-Line Instrument Systems, Inc.	Julie Ann DeSa Lorenz	julie@olisweb.com	Vendor $1000	WCC Lunch $1000	$2,000
12	Park Systems, Inc.	Debbie West	debbie@parksystems.com	Vendor $1000	Chem of Art Workshop $500	$1,500
13	PerkinElmer	Jeff Brewer	jeff.brewer@perkinelmer.com	Vendor $1000	Fermentation Symp $2000	$3,000
14	Shimadzu Scientific Instruments Inc.	Derek Selvidge	dlselvidge@shimadzu.com	Vendor $1000		$1,000
15	TA Instruments	Dr. Rachel Roccanova	rroccanova@tainstruments.com	Vendor $1000		$1,000
16	Teledyne ISCO	Sharon Fischer	Sharon.Fischer@teledyne.com	Vendor $1000		$1,000

	Company / School Name	Contact	Contact Email	Exhibitor options	Sponsorship/ Advertising	Total invoice
17	Yamazen Science, Inc.	Daniel Kimm	dkimm@yamazenusa.com	Vendor $1000		$1,000
18	Interactive Online Network of Inorganic Chemists (IONiC)	Dr. Tod Thananattthanachon	tt92@evansville.edu	Non-Profit $500		$500
19	Auburn University	Dr. Chris Grieco	czg0090@auburn.edu	Graduate School $500		$500
20	Baylor University	Emily Jessup	emily_jessup@baylor.edu	Graduate School $500		$500
21	Oklahoma State Unviersity	Dr. Nick Materer	nicholas.materer@okstate.edu	Graduate School $500		$500
22	Rice University	Pam On	Pamella.D.On@rice.edu	Graduate School $500		$500
23	Sam Houston State University	Dr. Dustin Gross	deg013@shsu.edu	Graduate School $500		$500
24	Texas A&M University	Dr. Jonathan Sczepanski	jon.sczepanski@chem.tamu.edu	Graduate School $500		$500
25	Texas State University	Kelsie Crumpton	klc147@txstate.edu	Graduate School $500		$500
26	Texas Tech University	Dr. Anthony Cozzolino	anthony.f.cozzolino@ttu.edu	Graduate School $500		$500
27	Texas Woman's University	Dr. Nasrin Mirsaleh Kohan	nmirsalehkohan@twu.edu	Graduate School $500		$500
28	U of Arkansas Fayetteville	Dr. Maggie He	maggiehe@uark.edu	Graduate School $500		$500
29	U of North Texas	Miriam Freeman	miriam.freeman@unt.edu	Graduate School $500		$500
30	U of Texas - San Antonio	Dr. Stanton McHardy	stanton.mchardy@utsa.edu	Graduate School $500		$500
31	U of Texas at Austin	Dr. John Baxendale	jbaxendale@cm.utexas.edu	Graduate School $500		$500
32	U of Texas Rio Grand Valley	Dr. Javier Macossay-Torres	javier.macossaytorres@utrgv.edu	Graduate School $500		$500

V.(b) Vendor Feedback

Include reports of feedback or questionnaires that vendors have provided including comments about future participation at regional meetings.

Conversations with vendors at the Expo indicated that they appreciated having the posters and coffee breaks in the same space as the Expo, that the traffic was excellent. Vendors especially enjoyed having in-person conversations with potential customers. The graduate schools also were very appreciative to be in the same space as the Undergraduate Poster Session.

Vendors who responded to the ACS "2021 SWRM Survey" voiced concerns about technical issues with the hotel services.

- *Exhibitor material delivery and pick-up was disorganized. Some material delivered to hotel, some delivered to expo, some not delivered at all (refused delivery). The meeting organizers should verify if the venue can handle palleted material, and the maximum size and weight of materials that can be handled - this information needs to be sent to exhibitors.*

- It was indicated skids were allowed, however a fork lift was not available. Due to this our shipment was returned. It is important for fork lifts to be offered even for smaller shows.

No respondents to the survey indicated that they would not attend another regional meeting.

V.(c) Approaches Used to Attract Vendors to Meeting

Describe how many attempts were made to contact vendors and the rate of success. How was the list of potential vendors generated?

The vendor list from the spring and fall 2019 national meetings which included 360 entries with email contact information, was shared with us by staff from Meetings and Expositions. A list of 60 local company names with about 15 contact emails was provided by Dr. Debbie Hess, a longtime ACS member and founder of a local recruiting and staffing firm.

The Expo Chair used USNews.com to identify schools in the SW region with chemistry related graduate programs.The chemistry, biochemistry and chemical engineering department websites were used to find the appropriate contact person.

More than 400 vendors and 47 graduate programs were sent invitations to attend the Expo or sponsor the meeting. All were contacted by email using the Mailchimp email software, a total of 3-4 times. The email invitations are included below. Of the 47 graduate programs, 15, or 32%, registered for the meeting. Of the 360 vendors, 17, or about 5%, registered to participate in the Expo. Two local vendors advertised job openings, collected resumes and conducted screening interviews.

V.(d) Exhibits

Include examples of vendor information packets, layout for booths, expo duration and times when held.

Vendor Information Packets

Vendors, graduate schools and potential sponsors were contacted by email. The message included links to the Prospectus for the meeting, and an Application form which included all sponsorship opportunities. When a vendor or graduate school completed the Application, they were sent an invoice by the Treasurer generated from Quicken. The invoice was paid by credit card, check or other means such as PayPal. Reminders were generated through Quicken until the invoice was paid.

Application Form

SPONSOR/ADVERTISER/EXHIBITOR APPLICATION

Organization Name: _____

Mailing Address: _____

Representative Name: _____

Representative Email Address: _____

Telephone (Daytime): _____

Cell Phone: _____

Please see attached pages for specific sponsorship/exhibitor details.
Indicate your selection(s) in the chart below.

✓	*Amount*	*Item*	*Cost*
		Reception Sponsor	$5000/$1000
		Coffee Break Sponsor	$3000/$1000
		K-12 Teacher Workshop Sponsor	$3000/$1000
		Symposium Sponsor	$2000/$500
		Fun Run Sponsor	$2000/$100
		Swag Bag Sponsor	$2000/$100
		Meeting/Presentation Room Reservation	$200 per 2 hour
		Advertising in Attendee Emails	Variable
		Advertising on Website	$1000
		Swag Bag Items (non-exhibitors)	$250
		Volunteer T-shirt logo placement	$200
		Vendor Exhibitor	$1000/$1500
		College Recruitment / Nonprofit Exhibitor	$500/$750
		General Meeting Support Donation	Variable

Total Amount: _____

Please fill this form and email it to Dr. Anting Chen at expo@swrm2021.org

Sponsorship questions? Contact Dr. Barry Streusand at sponsorship@swrm2021.org.

SPONSOR LEVEL		
Choose any combination of items below to be acknowledged as a Platinum, Gold or Silver Sponsor		
Platinum	$10,000	Named first at opening reception; logo at all activities and on website.
Gold	$6,000	Named at opening reception and at sponsored events and on website.
Silver	$2,000	Named at opening reception and at sponsored events and on website.
Sponsor		
Item	***Cost***	***Benefit***
Reception	$5000/$1000	Named as exclusive/one of a group of sponsors of reception on Sunday or Monday
Coffee Break	$3000/$1000	Named as exclusive/one of a group of sponsors of morning or afternoon coffee break (Sunday-Wednesday)
K-12 Teacher Workshop	$3000/$1000	Named as exclusive/one of a group of sponsors of all day POGIL workshop for up to 40 high school teachers
Symposium Sponsor	$2000/$500	Named as exclusive/one of a group of sponsors of a half day symposium
Fun Run	$2000/$100	Named as exclusive/one of a group of sponsors of Sunday morning 5K run. Logo on Fun Run t-shirt.
Swag Bag	$2000/$100	Named as exclusive/one of a group of sponsors of attendee Swag Bag. Logo on bag.
Meeting Room	$200 per 2hrs	Use of breakout room for company presentation, user meeting, interviews, etc.
Advertise		
Advertising in attendee emails	variable	Advertising in daily email/advance emails to conference attendees
Advertising on Website	$1000	Rotating banner on conference webpage
Swag Bag items (non-exhibitors)	$250	You bring it or send it, and we'll stuff it!
Volunteer T-shirt	$200	Your logo on the back of the volunteer t-shirt
Recruit		
Vendor Exhibitor Booth	$1000/$1500	Single/double booth in EXPO
College Recruiter or Nonprofit Booth	$500/$750	Single/double booth in EXPO

Exhibit Hall Details

Location:

Zlotnik Family Ballroom
AT&T Hotel and Conference Center
1900 University Avenue
Austin, TX 78705

Date and Time:

Monday, November 1, 10 am - 7 pm
Tuesday, November 2, 9 am - 2 pm

Description:

Exhibitor-Commercial

- **Standard Package $1000:** 10' x 10' space, 6' table with cloth, two chairs, (no pipe and drape is planned) two meeting registrations; listed on website and in meeting app; Inclusion of 1/2 page flyer (8.5" x 5.5") in meeting attendee SWAG Bag (printing not included).

- **Double Package $1500:** 20' x 10' space with two 6' tables, four chairs, four meeting registrations; *consider using the second space for a customer hospitality area.* Exhibitor name will be listed on website and in meeting app; Inclusion of 1/2 page flyer (8.5" x 5.5") in meeting attendee SWAG Bag (printing not included)

Exhibitor-College Recruitment/NGO/Non-Profit/

- **Standard Package $500:** as described above
- **Double Package $750:** as described above

Rules and Regulations for Exposition Booths

1. **Contract for Space.** The receipt by SWRM 2021 of your payment for the full amount of the exhibitor fee will constitute a contract for the right to use exhibit space at SWRM 2021. Cancellations will be treated in the following way: cancellation within 6 weeks, will receive a 50% refund, cancellation within two weeks, no refund.

2. **Space Assignment.** A layout of the EXPO will be sent, asking for your top three choices of position, and space will be assigned in order of payment received. In case none of your choices are available, we'll contact you.

3. **Space Rental and Fees.** All booths will be 10 feet by 10 feet. Standard booth furnishings will include a 6-foot skirted table, two chairs. No pipe and drape is planned. The rental fee for a single (manned) booth is $1000, and for a double booth is $1500. The rental fee for a single (manned) college recruitment or non-profit organization booth is $500 and a double booth is $750. Rental of a manned booth includes two complimentary exhibitor badges. The rental period for all expo booths will be from 10am to 7pm Monday November 1 and from 9am to 2 pm Tuesday November 2, 2021.

4. **Additional Furnishings and Supplies.** Additional furnishings and supplies may be arranged in advance through the AT&T Conference Center using the form Encore Exhibitor Form-ATT Conference Center.pdf.

5. **Shipping and Handling of Boxes and Shipping Crates.** Exhibitors have two options: A.) Bring your display materials with you. Refer to Vendor Zlotnik Loading Directions.docx for instructions. B.) Ship your materials to the AT&T Conference Center. Shipments must arrive within three (3) business days of the event and be scheduled for return shipment within 24 hours after the event, as stated on the form. All arrangements and payments are between the Exhibitor and the hotel. Exhibitor and Shipping Order Form.docx

6. **Installation and Dismantling of Exhibits.** Exhibitors may set up their displays and materials from 12:00-5:00 pm on Sunday, October 31, 2021. All setup should be completed before the expo opens at 10 am on Monday, November 1, 2021. Space that is unoccupied after 12 noon Monday morning may be repurposed, with no refund. Exhibitors are expected to be present at their booths until the close of the EXPO at 2pm on Tuesday. Dismantling of exhibits shall begin after the closing of the exposition at 2 pm on Tuesday, November 2, 2021. All exhibit materials must be removed by 4:00 pm on this same day to allow for reception and speaker setup.

7. **Space Restrictions.** Demonstrations, discussions, or other activities such as the distribution of literature, must be confined to the exhibitor's booth or otherwise approved area. No exhibitor shall assign, sublet, or share the whole or any part of their assigned space without prior approval of SWRM 2021. Booth displays should not be placed in such a way as to interfere with other exhibitors. There shall be no obstruction of the aisles.

8. **Storage.** All packing containers and similar shipping materials shall be removed from sight upon completion of the booth setup. Small items may be stored under the table, if hidden by a table skirt. Large items shall be stored by prior arrangement with the hotel, in advance of the meeting, by the AT&T Conference Center. (Continued on next page)

10. **Liability.** The exhibitor assumes the entire responsibility and liability for losses, damages, and claims arising out of the activities of the exhibitor and their agents. The exhibitor will indemnify and hold harmless the AT&T Conference Center, the Central Texas Local Section of the American Chemical Society, SWRM 2021, SWRM, Inc., the American Chemical Society, and their agents and employees, from any and all such losses, damages and claims. The AT&T Conference Center and its staff will provide a normal level of building security during the meeting. However, neither the SWRM 2021 nor the AT&T Conference Center can provide guarantees against losses of any kind.

11. **Exhibitor's Badges and Booth Contact Person.** Each booth exhibitor will receive two meeting badges as part of registration. The name of each person should be communicated to the Exposition Chair, Anting Chen at expo@swrm.org. Dr. Chen should be notified of additions and deletions to this list. A single contact person should be identified with whom we can communicate regarding booth issues. Meeting badges will admit exhibitor representatives to all technical sessions and SWRM 2021 sponsored functions from Sunday October 31 through Wednesday November 3. However, exhibitor representatives with meeting badges will need to pay any extra event admission fees to "ticketed" events on the same basis as all other registered meeting attendees.

12. **Admission to Expo.** Only SWRM 2021 badgeholders or hotel staff are admitted to the Exposition Hall.

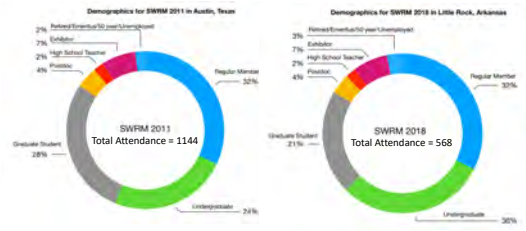
13. **Expo Hours.** The two-day EXPO is scheduled for Monday, November 1, 2021 from 10:00 am until 7:00 pm, and Tuesday November 2, 2021 from 9:00 am until 2 pm. These exposition hours may be revised at a later date as necessary by SWRM 2021.

Exhibitor/Sponsor Prospectus

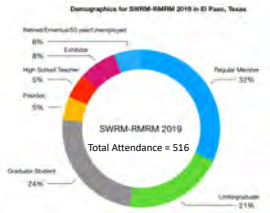
What area does the Southwest Region cover?

Texas
Oklahoma
Arkansas
Louisiana
New Mexico

Who will you meet at SWRM?



Who will you meet at SWRM?



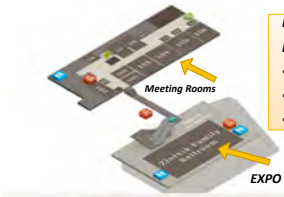
SWRM 2021
Abstracts Received: 634

Expected Attendance:
Total: 760
Undergraduates: 150
Graduate Students: 180
Regular Members: 240

What are our attendees looking for?

- Re-engagement with the chemistry community
- In person networking
- Graduate school information
- Textbooks and Educational Services
- Literature Services
- Analytical Research
- Laboratory Equipment and Chemicals
- R&D and Manufacturing Services

Expo Details



Extra Value!

Events in the Ballroom during Expo Hours

- Poster Sessions Monday and Tuesday
- Monday Reception following Plenary Speaker
- All coffee breaks Monday and Tuesday

Expo Hours:
Monday, November 1, 10am - 7pm
Tuesday, November 2, 9am - 2pm

What are the benefits of exhibiting at SWRM 2021?

- Access to more than 750 meeting attendees.
- Listing on SWRM website and meeting program.
- Opportunities to advertise, recruit, and sponsor.
- Access to a meeting room for user meeting, info session, etc. (additional cost; space is limited)
- Opportunity to arrange for a private table for lunch with your customers, colleagues, etc. (additional cost; space is limited; availability based on interest)

Sponsorship

We will gratefully acknowledge your financial contribution to SWRM on our website and in the program. If the amount of items you choose from the Sponsorship, Advertising and Recruitment categories reaches the following totals, we will be pleased to offer special recognition:

Platinum	$10,000	Named first at opening reception; logo at all activities and on website.
Gold	$6,000	Named at opening reception and at sponsored events and on website.
Silver	$2,000	Named at opening reception and at sponsored events and on website.

Sponsorship Opportunities

Item	Cost	Benefit
Reception	$5000/$1000	Named as exclusive/one of a group of sponsors of reception on Sunday or Monday
Coffee Break	$3000/$1000	Named as exclusive/one of a group of sponsors of morning or afternoon coffee break (Sunday-Wednesday)
K-12 Teacher Workshop	$3000/$1000	Named as exclusive/one of a group of sponsors of all day POGIL workshop for up to 40 high school teachers
Symposium Sponsor	$2000/$500	Named as exclusive/one of a group of sponsors of a half day symposium
Fun Run	$2000/$100	Named as exclusive/one of a group of sponsors of Sunday morning 5K run. Logo on Fun Run t-shirt.
Swag Bag	$2000/$100	Named as exclusive/one of a group of sponsors of attendee Swag Bag. Logo on bag.
Meeting/ Presentation Room	$200 per 2hrs	Use of breakout room for company presentation, user meeting, interviews, etc.

Advertising Opportunities

Advertising in attendee emails	variable	Advertising in daily email/advance emails to conference attendees
Advertising on Website	$1000	Rotating banner on conference webpage
Swag Bag items (non-exhibitors)	$250	You bring it or send it, and we'll stuff it!
Volunteer T-shirt	$200	Your logo on the back of the volunteer t-shirt

Cost:

Exhibitor-Commercial

Standard Package $1000: 10' x 10' space, 6' table with cloth, two chairs, (no pipe and drape is planned) two meeting registrations; listed on website and in meeting app; Inclusion of 1/2 page flyer (8.5" x 5.5") in meeting attendee SWAG Bag (printing not included).

Double Package $1500: 20' x 10' space with two 6' tables, four chairs, four meeting registrations; *consider using the second space for a customer hospitality area.* Exhibitor name will be listed on website and in meeting app; Inclusion of 1/2 page flyer (8.5" x 5.5") in meeting attendee SWAG Bag (printing not included)

Exhibitor-College Recruitment/NGO/Non-Profit/

Standard Package $500: as described above

Double Package $750: as described above

CONTACTS:

Exhibits: Dr. Anting Chen
expo@swrm2021.org

Sponsorships: Dr. Barry Streusand
sponsorship@swrm2021.org.

For more information about the SWRM2021 conference please visit: https://swrm.org/

Welcome Letter for Exhibitors

Welcome to the 77th Southwest Regional Meeting of the American Chemical Society!

Thank you for coming as an exhibitor. Here is some information that may help you enjoy SWRM 2021.

Exhibition time:
Monday, November 1st, 10 AM – 7 PM
Tuesday, November 2nd, 9 AM – 2 PM

Exhibition set up and take down time:
Set up: Sunday, October 31st, 10 AM – 7 PM; or Monday, November 1st, 8 AM – 10 AM
Take down: Tuesday, November 2nd, 2 PM – 5 PM

Poster Sessions in the Expo:
Monday, November 1st, 9 AM – 11 AM – Undergraduate Posters;
Monday, November 1st, 2 PM – 4 PM – Undergraduate Posters & Chemical Education Posters;
Tuesday, November 2nd, 9 AM – 11 AM – Graduate and Professional Posters;
Tuesday, November 2nd, 2 PM – 4 PM – Graduate and Professional Posters.

Coffee Breaks in the Expo:
Monday, November 1st, 9:30 AM – 10:30 AM and 2:30 PM – 3:30 PM
Tuesday, November 2nd, 9:30 AM – 10:30 AM and 2:30 PM – 3:30 PM

Social Events in the Expo:
Our keynote speaker will present in Zlotnik Ballroom 1/2 Monday, November 1st at 5 PM, followed by the reception here in the Expo from 6 PM – 7 PM.

You are invited to participate in the full program of sessions and social events at the meeting. To see our schedule, please scan the QR code on the right.

Most of our volunteers are local and can advise about great places to eat nearby.

Emergency Contacts:

Dr. Anting Chen
Career Programming and Exhibition Chair, SWRM 2021
antingchen@centraltexasacs.org
(607)372-4847

Dr. Diane Kneeland
General Chair, SWRM 2021
dianekneeland@centraltexasacs.org
(512)577-0083

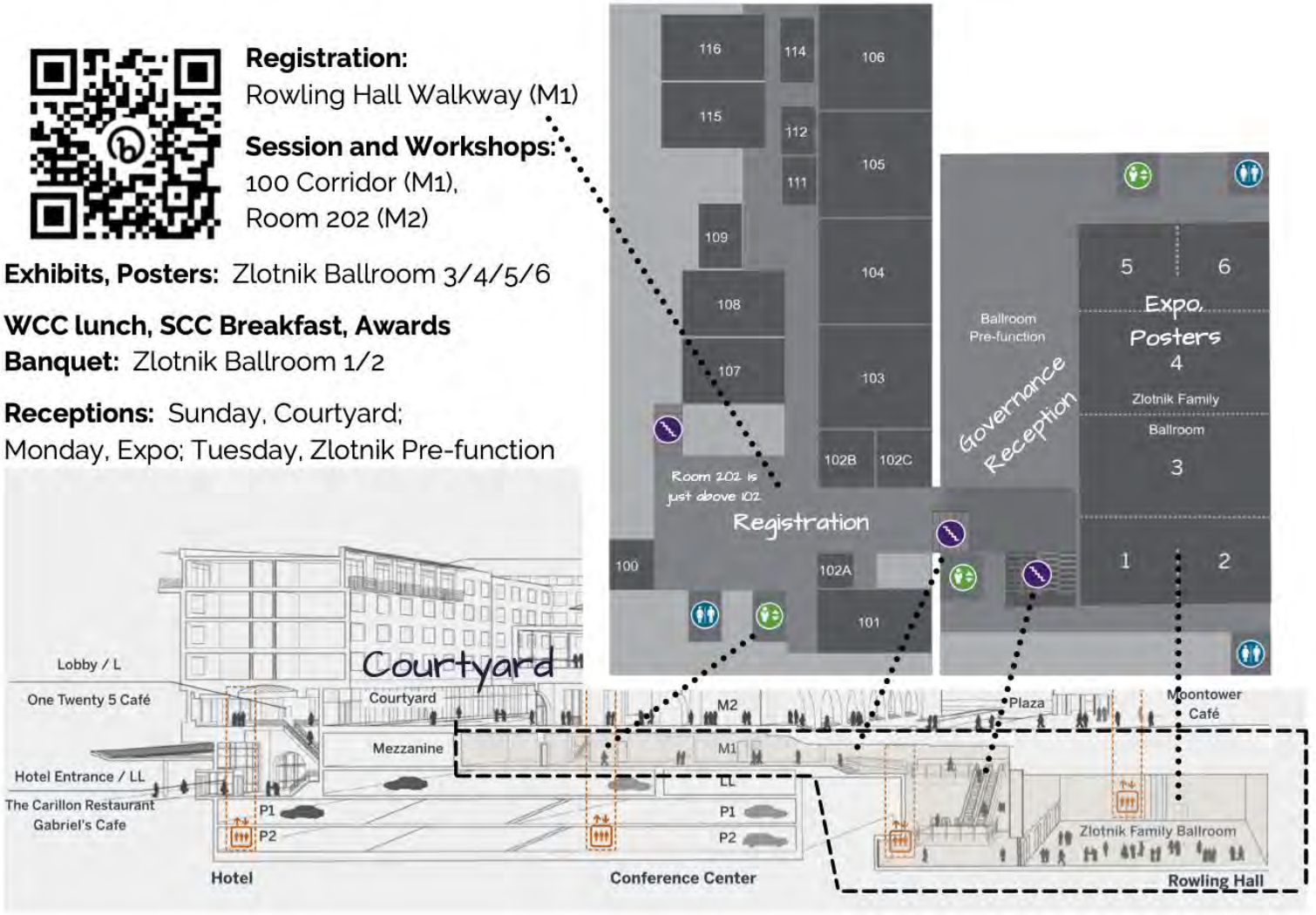
Registration:
Rowling Hall Walkway (M1)

Session and Workshops:
100 Corridor (M1),
Room 202 (M2)

Exhibits, Posters: Zlotnik Ballroom 3/4/5/6

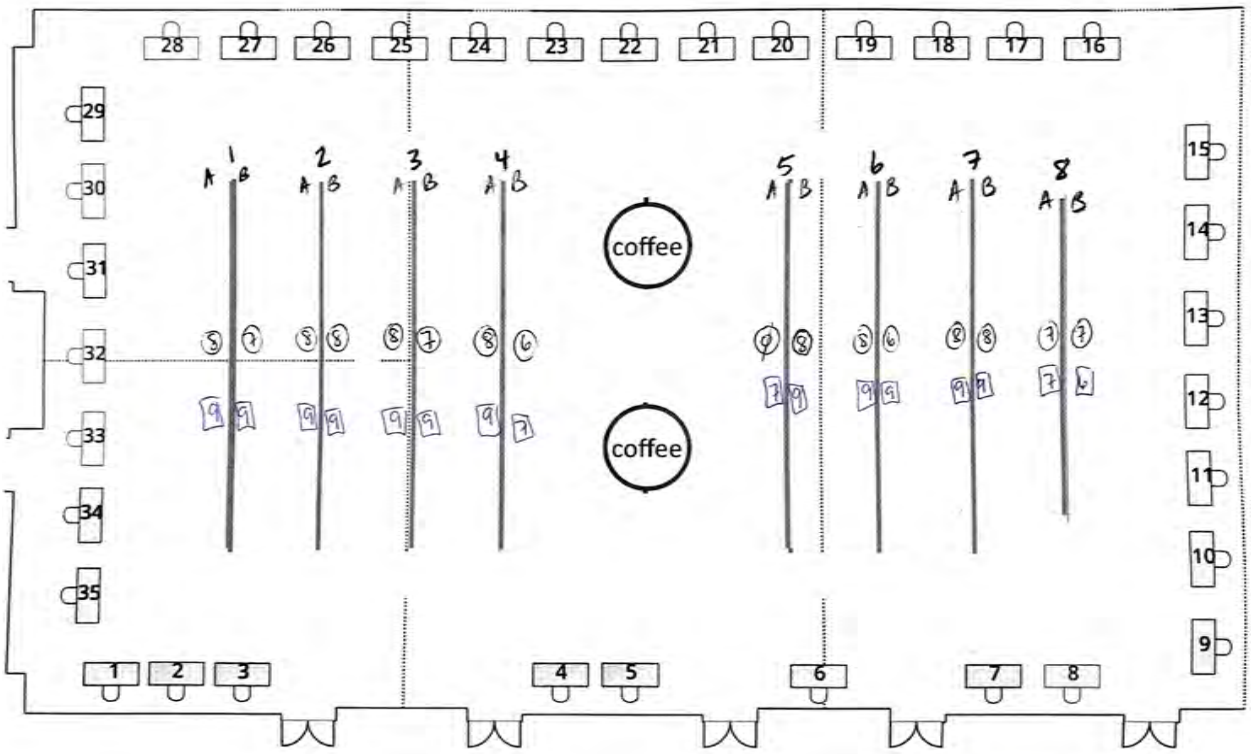
WCC lunch, SCC Breakfast, Awards Banquet: Zlotnik Ballroom 1/2

Receptions: Sunday, Courtyard;
Monday, Expo; Tuesday, Zlotnik Pre-function



Booth Layout

The vendors were each given a 6 foot skirted table with 10’ between tables. All had access to 120 volt power. The poster frames were set in the middle of the room, with a space in the center for the Monday-Wednesday coffee breaks and Monday evening reception.



Expo

Dates and Hours

Expo Hours:
Monday, Nov. 1, 10am - 7pm
Tuesday, Nov. 2, 9am - 2pm

The Expo opened at 10 am on Monday so that vendors could arrive either Sunday night or Monday morning to set up. Poster sessions and coffee breaks on Monday and Tuesday were held in the Expo. A reception after the opening plenary session on Monday evening was held in the Exposition Hall from 6-7pm.

V.(e) Additional Comments/ Lessons Learned

Monday was a great day in the Expo, with lots of traffic due to poster sessions, coffee breaks and give aways.
However, vendors who stayed in the Expo until 6 pm on Monday evening did not have an opportunity to purchase food in the hotel. The cafes and hotel restaurant had shortened hours as a result of covid. While there were nearby restaurants and food trucks, it was unexpected that the hotel itself would have little to offer.
Tuesday in the Expo had good traffic in the morning and most vendors stayed until closing at 2pm. Poster presenters on Tuesday afternoon from 2-4 were however disappointed at the reduced activity in the Expo ballroom.

VI. PUBLICITY/WEBSITE

VI.(a) Data

Identify all sources of publicity that were used to market the meeting including Call for Papers, C&E News Ads, Special Flyers, Email, Websites and links, etc.
Name other meetings (locations and dates) at which your meeting was marketed and the method used to market.

The Call for Papers, a C&E News Ad, several emails and a link to our regional meeting website were all handled by the ACS Marketing Team, using standard templates which we then personalized and/or edited for accuracy or more detail.

Marketing at other meetings:
As one of the first in-person meetings since the pandemic, marketing at other meetings was greatly reduced over other years. Slides were presented by at the Region IV Caucus Meeting in Spring 2021. Business card size announcements were printed and given out at the same meeting by the Central Texas Councilor to the attendees who were present in person.

VI.(b) Publicity Methods

Estimate the cost effectiveness of the methods used (Email, Regular Mail, Web Pages)
Identify any "markets" that could have been used to publicize the meeting.

Email:
- ACS Email was free and as such was very cost effective to reach ACS members to advertise the meeting and solicit abstracts.
- We purchased a Mailchimp account to manage our email lists of potential exhibitors, graduate school programs, local section members, etc. We planned to also upload our meeting attendees and use Mailchimp for announcements during the meeting. We were not able to do this because ACS had/has a policy not to release the contact information of registrants to the LOC. The Mailchimp account was still worth the cost for what we used it for.

Social Media:
Facebook: https://www.facebook.com/SWRMACS
Instagram: https://www.instagram.com/swrmacs
Twitter: https://www.twitter.com/swrmacs

The Communications Chair created the social media accounts for the ACS SWRM meetings. These accounts were well used to post high quality advertisements for the meeting. ACS Marketing Office was asked to follow and re-send any messages that were posted on the SWRM social media sites. The sites were advertised to other planners at the Regional Meeting Planners Happy Hour, and they were encouraged to follow the sites and to advertise the sites to their local sections. The Facebook page for SWRM now has 127 followers, Instagram has 131 and Twitter has 72. The SWRM 2022 meeting is currently using the accounts and the plan is for every subsequent meeting to make use of them.

Link to video

VI.(c) Web Page Design

Include any data related to the effectiveness of the web page in marketing the meeting. Provide an outline of information found on your meeting web site, e.g. site map, directions, and give the URL.
Comment on how the Web can be used more effectively for future regional meetings.

Website
Web address: swrm.org
Information on the website: Links to Call for Abstracts, Registration, Housing, General Meeting Information, Events, Symposia list, link to meeting schedule, social media, blog, list of sponsors and exhibitors, exhibitor application, sponsor application.
Future meetings: The website, **swrm.org** was developed at our meeting. Our Communications Chair designed the site and a Webmaster hired by the SWRM Board implemented it. The webmaster and the website provide continuity from year to year, which will free up quite a bit of time and energy for future meetings.

VI.(d) Meeting Logo

Include a copy of a special meeting logo that was developed for the meeting, name the designer, and describe where/when it was used. How useful do you feel it was to give the meeting "brand recognition?

Logo:

The armadillo logo was created by the husband of the technical Programming Chair. The armadillo was incorporated into the web banner, the invitation letterhead and in other designs by the Communications Chair who used Canva design software. It was used on all promotional items including conference Swag Bags, pint glasses, volunteer t-shirts, mugs etc.

The LOC enjoyed having the armadillo as our mascot and felt that it identified us as Texans and as Austinites.

VI.(e) News Media

Summarize all coverage of the meeting that was present in the general news media [newspapers, TV, radio, C&E News]. Include samples of press releases.

News media included C&E News and social media including Facebook, Twitter, and Instagram.

VI.(f) Exhibits

Call for Papers in C&E News (14-may-2021)

Call for Papers Now Open for 2021 SWRM
Abstract submissions are being accepted for the 2021 Southwest Regional Meeting (SWRM), which will be held Oct. 31 - Nov. 3 at the AT&T Hotel and Conference Center on the University of Texas campus in Austin, TX. Some programming will be available virtually.

The meeting will highlight chemical innovations to meet global challenges, with a keynote address by Dr. Livia Eberlin of the University of Texas Austin and a recipient of a MacArthur "Genius" Fellowship for her work at the interface of chemistry and medicine. A special Cope Scholar symposium will feature Dr. T.V. RajanBabu of The Ohio State University.

Programming for high school educators will include a Process-Oriented Guided Inquiry Learning (POGIL)workshop on Saturday, Oct. 30, and a chemical safety workshop.

Sunday activities will be of interest to chemists of all levels and the general public. Planned symposia include Chemistry & Art, Chemistry & the Law, Fermentation Science, and Cannabis Chemistry. Throughout the conference, attendees can participate in two career workshops, resume reviews, graduate school recruiting, and a poster competition with awards in each category.

More than 40 technical sessions will feature the core areas of chemistry, including analytical, biochemistry, chemical education, inorganic, materials, organic, and physical.

Undergraduate and graduate students are encouraged to submit abstracts for both posters and oral presentations to any of the symposia, technical sessions, and poster sessions.

The final program summary will be published in C&EN in the fall; the online program will be published in late September. The list of symposia titles and organizers will be available on swrm.org. Abstracts are due July 26. To submit an abstract, visit swrm.org or ACS's Meeting Abstracts Programming System at maps.acs.org.

Email from ACS Marketing to ACS Members

Now Accepting Abstracts
Deadline: July 26

Abstracts are now being accepted for oral and poster presentations for the 2021 Southwest Regional Meeting (SWRM), October 31 – November 3, in Austin, Texas.

Present your research and join your colleagues for symposia, training, and networking opportunities!

Submit your abstracts in the ACS's Meeting Abstracts Programming System by July 26.

Submit an Abstract

Awards at SWRM 2021

Consider nominating an outstanding member of the Southwest Regional for one of the following awards.

Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences: This award recognizes individuals and/or institutions who have advanced diversity in the chemical sciences and significantly stimulated or fostered activities that promote inclusiveness within the region. **Nomination Deadline: August 1**

E. Ann Nalley Regional Award for Volunteer Service to the ACS: This award recognizes the volunteer efforts of individuals who have served the American Chemical Society, contributing significantly to the goals and objectives of the Society through their regional activities.**Nomination Deadline: August 27**

Partners for Progress & Prosperity Southwest Region Award: To encourage and recognize successful and exemplary partnerships, advancing advocacy efforts with government and other thought leaders and for supporting STEM education and/or research. **Nomination Deadline: August 27**

ACS Division of Chemical Education SW Region Award - Excellence in High School Teaching: The Division of Chemical Education (DivCHED) established an endowment to support Regional Awards for Excellence in High School Teaching in each of the ACS Regions. **Nomination Deadline: August 27**

Southwest Region ACS Award: This award recognizes a person who, during a period of residence in the Southwest Region of the ACS, has made meritorious contributions to the advancement of chemistry, chemical engineering, chemical education, either pure or applied, to the profession in general. **Nomination deadline: August 27**

Learn More & Nominate

Student Presenter Travel Scholarships

SWRM will provide up to ten $500 travel scholarships to students presenting papers at SWRM 2021. Each ACS local section in the Southwest Region may nominate up to two students for a scholarship. Nominations must go through the local sections. Students may not apply directly.

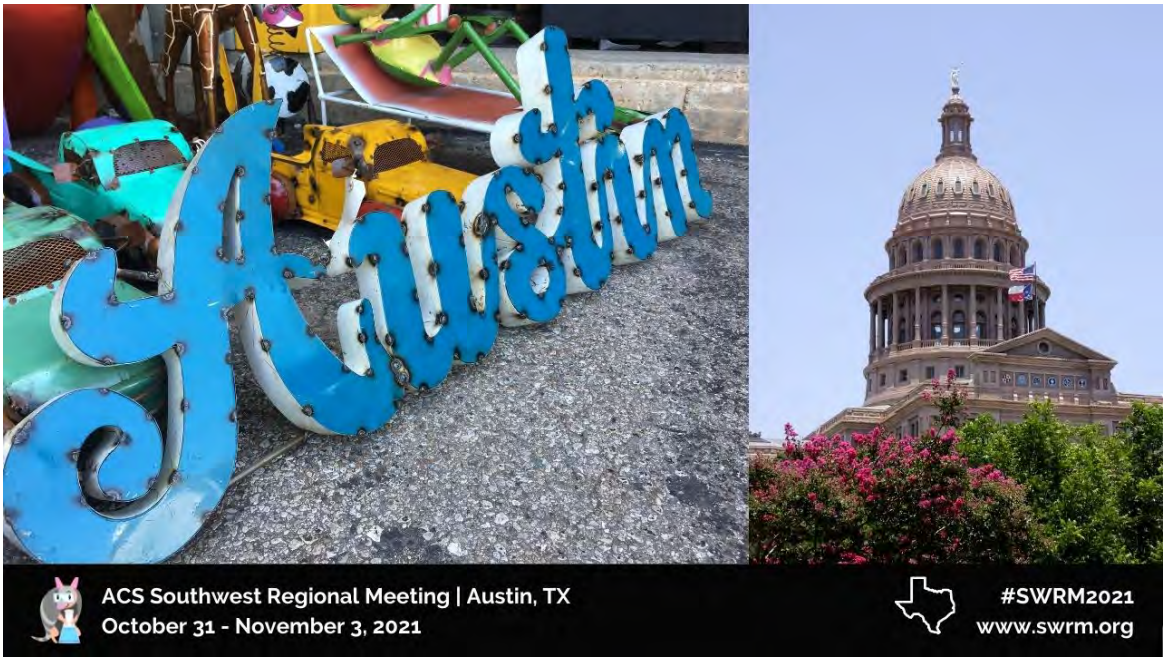
Local sections must submit nominations to awards@swrm2021.org no later than September 29, 2021.

Students: Please coordinate with your local section if you are interested in this travel scholarship.

Learn More & Nominate

Zoom Backgrounds

The Communications Chair requested public domain images from the Austin Visitors Center and created Zoom backgrounds, available to download from the SWRM website. The backgrounds featured typically Texas or Austin images and were branded with the meeting information.



VI.(g) Additional Comments/ Lessons Learned

The importance of Communications for the meeting cannot be emphasized enough. We were fortunate to have a Communications Chair who was very experienced and hard working. He created an image for the meeting of an event that would be lively, fun and interactive. During the meeting, he continued to send out messages via social media and blog.
We knew that our social media channels would take some time to develop a following. It would be great if ACS Marketing could assist regional meetings to increase the audience by following, retweeting, etc. By the time the meeting is underway, the LOC needs to have the ear of the attendees, so that communications can be made directly from the LOC to attendees.

VII. ARRANGEMENTS

VII.(a) Data

Comment on any special arrangements/considerations made for the meeting and associated costs.

Audio Visual Equipment and support:
As one of the first meetings to be held in person after Covid, we planned on the likelihood of having one or two virtual speakers in most of the events, and offering virtual attendance for just a few of the events, such as the safety workshops. Then, in the last two weeks before the meeting, ACS offered to create (at no cost to us) a platform for virtual attendees who could then attend all of the symposia. We accepted the idea.

The cost of the A/V equipment and technicians from the hotel was not included in our original contract, which we signed in 2019. Our budget for the meeting included an allowance of $16,000 for A/V. It turned out that normal A/V costs for this hotel are at least twice that amount. Because of the unexpectedly high cost of standard A/V and accommodating the option of virtual attendance at the entire meeting, the final cost of A/V was approximately $36,000.

The audio/visual equipment required for a hybrid meeting instead of an all in-person meeting included:
1. Renting laptops from the hotel so that the technical staff could have one standard setup for connecting every room to a Zoom interface, at a cost of $175 per room per day, for a total of approximately $4,000.
2. Paying for a USB Audio interface to route audio from the podium microphone to the Zoom call at a cost of $108.50 per room per day for a total of approximately $2,500.

The additional cost of A/V was about $6500. We did not get any (significant) revenue from virtual attendees, as marketing virtual attendance was not done until the meeting was underway.

Pandemic considerations:
All attendees were asked to wear masks. ACS provided disposable masks at no cost to the meeting.

Special instructions were given to speakers regarding virtual or in-person attendance.

From: **Kami Hull** kamihull@utexas.edu
Subject: SWRM 2021
Date: October 20, 2021 at 9:38 PM
To:

KH

Dear SWRM 2021 Speakers,

I am Dr. Kami Hull, the Technical Program Chair for SWRM 2021. We are excited to be hosting all of you in less than two weeks! Your contributions have produced a fantastic line-up of speakers for one of the first predominantly in-person meetings in over 1.5 years.

We are glad to report that COVID-19 in Austin is in decline - we are in Phase 3, and are trending toward being in Phase 2 by the start of SWRM2021. However, we realize that not everyone is able to join us in person, and so SWRM2021 will be a hybrid conference with both an in-person and a virtual audience for oral presentations.

Currently, we anticipate that greater than 90% of the talks will be in-person. In preparation for the oral symposia, we need some final information from you, our speakers! We would like to get a final tally of the in-person and virtual speakers, as well as whether you are comfortable sharing your talk with the virtual SWRM audience.

By 5 pm CDT on Monday, October 25, please complete the following two-question survey *(even if you have previously indicated in any way that you planned to present virtually):*

https://forms.gle/NdVLgcy7wBp1ZUx97

If I have not heard from you by then, I will assume that you are attending the conference in-person and are happy to share your talk with both the in-person and virtual audiences.

Additional information for both in-person and virtual oral presentations will be sent out next week!

Best regards,

Kami L. Hull, Ph.D.
Technical Program Chair, SWRM 2021
Associate Professor of Chemistry
University of Texas at Austin

VII.(b) Special Needs

Name any special needs for attendees with disabilities, and other items such as special meals, that you were required to provide.

Chemists with Disabilities:
A symposium speaker who was blind was assisted with their seminar and technology. No extra expense was incurred.

Special Menus:
The usual requests for vegetarian meals or meals for those with allergies were accommodated by the hotel without any extra expense.

Rush orders:
An additional 50% was charged for the 5 extra meals added to the awards banquet with less than 18 hours notice.

VII.(c) Additional Comments/ Lessons Learned

The cost of A/V is notoriously uncertain. The discussions around these costs should have been occurring from the outset to make sure all avenues were explored. SWRM 2021 was fortunate to have a robust in-person attendance, the revenue from which enabled the meeting to cover the unexpected costs.

Food:
The hotel has three restaurants in the hotel itself, as well as a food court. Because of a lack of staff due to Covid, the restaurants and food court venues were either closed, had shortened hours, or had long wait times to be served. The Expo vendors were especially affected by this.

Covid:
Organizing SWRM 2021 during uncertain times took a lot of courage and confidence in each other. No one knew what phase of risk level the city of Austin would be in, or what attendees comfort level would be in attending in-person. Our contract with the hotel committed us to covering 85-100% of the contract amount for hotel rooms and food and beverage, nearly 6 months before the meeting. The LOC committed to proceeding, and faced the ambiguity of the uncertain situation with hard work, good humor and calm demeanor. It was a proud moment when we closed the door to our “war room” at the hotel on the afternoon of the final day!

SUNDAY MORNING
Classroom 116
Organic
A. Popov, *Presiding*
9:40 5 . Pd-Catalyzed N-Alkylation of Indole via Aza-Wacker Oxidation. **Y. Wang**, S. Bhatt, K. Hull
10:00 6 . Photoswitchable Inhibitors to Control the Function of MMP-9 Protein and Cancer Cell Migration. **N. Mafy**, E.L. Que
10:20 7 . Intermolecular [5+1]-Cycloaddition between Vinyl Diazo Compounds and *tert*-Butyl Nitrite to 1,2,3-Triazine 1-*N*-Oxides and Their Further Transformation to Isoxazoles. **L. De Angelis**, H. Arman, M.P. Doyle, H. Zheng
10:40 8 . β, β'-functionalization and π-extension of Porphyrin via the Incorporation of Phenanthroline and Acenaphthene Units. **J. Arvidson**
11:00 9 . C-H Aminoalkylation with Photosensitizer and Imine. **L. He**
11:20 10 . Copper Catalyzed Three-component Carboamination Of Electron Deficient Olefins. **A. Popov**, A. Nicely, H. Wendlandt, G.L. Trammel, D. Kohler, K. Hull
11:40 11 . Stereodefined Polymers Through Stereoretentive and *Z*-Selective Olefin Metathesis. **S. Kempel**, T. Hsu, Q. Michaudel
Classroom 107
Diversity, Equity, and Inclusion in Chemistry
J. Coronado, D. Cotton, S. Povilaitis, *Presiding*
10:15 Introductory Remarks.
10:20 12 . Chem Cats: Student-led Chemistry Tutoring Program at Texas State University. **N. Coral**, **E. Torres**, M. Gutierrez, D. Zimmer, M. Johnson, C.J. Luxford
10:45 13 . Accessible Visual Data for Online Chemistry Labs: An Oxymoron?. **A.M. Dark**, K. Lancaster
11:10 14 . A Third-year General Chemistry Professor's Insights, Reflections, and Efforts on Redefining Student Success in the General Chemistry Classroom. **T.E. Alivio**
11:35 15 . Does a Diverse Scientific Workforce Lead to Diversty in Science. **K.H. Pannell**, D. Dasgupta
Classroom 105
Inorganic
J. E. Smith, *Presiding*
10:20 16 . Coordination Chemistry of γ-cationic Phosphines with Late Transition Metals: Generation of Complexes Featuring Metal→Carbenium Interactions.. **E. Litle**, F.P. Gabbai
10:40 17 . Computational Investigations of Methylidene Coupling of $[(\eta^5\text{-}C_5H_5)Re(NO)(PPh_3)(=CH_2)]^+$: A Remarkable Degree of Enantiomer Self-Recognition. **T. Wititsuwannakul**, M.B. Hall, J.A. Gladysz
10:40 18 . Synthesis of Lewis Acidic Au/Ge Complexes and their Catalytic Application in the Hydroamination of Alkynes. **M. Karimi**, F.P. Gabbaï
11:00 19 . Cationic coinage Metal Complexes of Olefins and Alkynes. **b.T. watson**, A. Noonikara Poyil, A. Zacharias, R. Dias
11:20 20 . Intramolecularly Base-Stabilized Platinum-Antimony Complex and Applications to Carbophilic Catalysis. **J.E. Smith**, H. Yang, F.P. Gabbaï
Classroom 115
Materials
V. E. Viviani, *Presiding*
10:20 21 . Tuning the Structural, Electronic, and Magnetic properties of $6s^2$ lone-pair- driven $M_XV_2O_5$ (M = Pb, Hg, Tl) compounds. **G. Agbeworvi**, **J.L. Andrews**, **S. Banerjee**
10:40 22 . The Synthesis of Cu-doped ZnO Nanowires via a Novel CVD Method for Utilization in Grätzel-type dye-sensitized solar cells. **P. Blount**, L. Marder, T.M. Trad
11:00 23 . How Crystallite Geometries Determine the Electrochemical Performance of Porous Electrodes: Insights from Multiscale *Operando* Studies of a Phase- Separating Intercalation Host. **Y. Luo**
11:20 24 . Stereoactive Lone Pairs as a Design Principle for Reversible Room- Temperature Fluoride-Ion Insertion in Transition Metal Oxide Hosts. **W. Zaheer**, **J. Guo**, **S. Banerjee**
11:40 25 . Understanding Mechanisms of Dendrite Formation in Mg-based Batteries and Design of Metallic Anodes. **R.D. Davidson**, A. Verma, F. Hao, S. Angarita- Gomez, S. Xiang, J. Van Buskirk, K. Xie, P. Balbuena, P.P. Mukherjee, S. Banerjee
SUNDAY AFTERNOON

Classroom 107
Diversity, Equity, and Inclusion in Chemistry
J. Coronado, D. Cotton, S. Povilaitis, *Presiding*
1:00 26 . Encouraging Representation of Women in STEM: Organizing Arkansas' first virtual women in stem conference. **S.K. Hamilton**, S.E. Hubbard
1:25 27 . Continuing the Conversation; Broadening the Discussion. **D.J. Nelson**
1:50 28 . Technical Women’s Leadership Forum at 3M – What are We Waiting for?. **J.L. Connell**
2:15 29 . TBD. **A. Masino 2:40** Intermission.
2:50 30 . Leveling the Field: Contributions to Diversity, Equity and Inclusion by a Hispanic Serving Institution through Undergraduate Research. **L.E. Echegoyen**, R. Aguilera, S. Aley, K. Canaba, G. Corral, L. Diaz-Martinez, S. Oviedo-Ramirez
3:15 31 . Supporting Transformation: Intersectional Directions to Engender Success (XULA STrIDES). **S.C. Dimaggio**, F.L. Payton, A. McCall, M.F. Ali, E. Severan- Webb
3:40 32 . "I Run an Equal Opportunity Classroom": How STEM Faculty Conceptions of Equity may Support or Hinder Student Success. **T. Russo-Tait**
4:05 33 . Growing Diverse STEM Communities. **L. Winfield**
4:30 34 . International Research Experiences in the Development of Minority Scientists. R. Davis, D. Spivak, **Z.S. Wilson-Kennedy 4:55** Closing Remarks.
Classroom 105
Inorganic
A. Popov, *Presiding*
1:00 35 . DFT and TDDFT Study of Photo Initiated Intermolecular C-H Activation and Functionalization of Toluene, Ethylbenzene and Cumene by Iron, Cobalt and Nickel Nitridyl and Amidyl Complexes.. **D.C. Alamo**, T.R. Cundari
1:20 36 . Synthesis of Cu(I) and Ag(I)-Acetylene Complexes. **A. Noonikara Poyil**, R. Dias
1:40 37 . Mechanistic Investigation of Pyridine C-H bond Activation by (PBP)Ir Complexes. **V.T. Nguyen**, W. Shih, J. Zhou, O. Ozerov
2:00 38 . Robust Polymerization Catalysts with Tris(2-pyridyl)borate Ligands. **J. Qian**, R. Comito
2:20 Intermission.
2:40 39 . Synthesis and Characterization of Heteroanionic Ln_2O_2Te (Ln = La, Ce, Pr). **M. Orr**, R.T. Macaluso
3:00 40 . Mixed Matrix Membrane with Metal-Organic Polyhedra for CO_2/N_2 separation. **F. Chen**, H. Zhou
3:20 41 . The Synthesis and Characterization of NHC-gold Complexes for Atypical Electronic Structures and Bonding Motifs. **G. Park**, F.P. Gabbai
3:40 42 . Alkylative Defluorination (AlkDF) of C–F bonds with Cationic Alkyl Magnesium Species. **D. Leong**, O. Ozerov
4:00 43 . Synthesis of Trinuclear Complexes of Silver(I) and Copper (I) Supported by Bulky Pyrazolates.. **M. Vanga**, **R. Dias**
4:20 44 . Phosphine Oxide→carebnium Dative Bonding: Reversibility of the Interaction and Application in Photocatalysis using Green Light. **W. Liu**, F.P. Gabbai
Classroom 116
Organic
A. Ho, *Presiding*
1:00 45 . Discovery of Slack Potassium Channel Inhibitor *in vivo* Probes: Optimization of the hit Compound VU0531245. **A.M. Qunies**, B.D. Spitznagel, Y. Du, C.D. Weaver, K.A. Emmitte
1:20 46 . Synthesis and Spectroscopic studies of Fluorophores for Selective Metal Binding and Single-Molecule Fluorescence Imaging Tags. P. Thapa, N. Byrnes, **A. Denisenko**, J. Mao, A.D. MaCdonald, C.A. Newhouse, T. Vuong, K. Woodruff, K. Nam, D. Nygren, B.J. Jones, F.W. Foss
1:40 47 . Design, Synthesis, and Half-life Determination of Improved β-eliminative Linkers for the Conjugation of TAK-242 to Transplanted Tissue. **J.H. Kostyo**, M. Shuda, R.R. Kane
2:00 48 . Antibiotic-modified Polydiacetylene biosensor for rapid detection of Bacteria. **s. hazoor**
2:20 49 . Carbamate Bioconjugates as Cleavable Linkers. **J.W. Karunananthan**, E.J. McGown, R.R. Kane
2:40 50 . Synthesis and Antiproliferative Activity Evaluation of 1,3- Diarylpyrazolones: Potential Anticancer Agents for Non-Small Cell Lung Cancer. **S. Murru**, **D. ElHage**, H. Vo, A. Dahal, S. Satyanarayanajois
3:00 51 . Removal of Trace Organics from Water Using Recyclable Poly(α-olefin) Solvent Systems. **N. Rosenfeld**, T. Malinski, E.C. Quinn, D.E. Bergbreiter
3:20 52 . Three-Component Copper-Catalyzed Carboamination of Electron-deficient Alkenes: Mechanistic insights. A. Popov, **H. Wendlandt**, A. Nicely, G.L. Trammel, D. Kohler
3:40 53 . Metal-free route to *bis*(pyrazolyl)alkanes enabling cooperative bimetallic catalysts for biorenewable polymers. **M. Tansky**, Z. Gu, R. Comito
4:00 54 . Versatile Synthesis of 1,2-Propylene Diamines via Iridium-Catalyzed Directed Hydroamination of Allyl Amines. **A. Ho**

4:20 55 . Studies toward a Total Synthesis of the Pyrrole-imidazole Alkaloid Palau'amine. **B. Fulton**

4:40 56 . Total Synthesis of The Acetyl CoA Carboxylase Inhibitor Soraphen A via Transfer Hydrogenative C-C Bond Formation. **T. Schempp**, M.J. Krische

Classroom 104

The Chemistry of Hemp

M. Lasater, *Presiding*

1:00 Introduction by CANN.

1:08 57 . The State of Industrial Hemp and CBD in Texas : Regulations and Testing Requirements. **K. Johanning**

1:37 58 . Uncertainty Estimates, Test Results and Decision Rules – Oh my!. **S.A. Audino**

2:06 59 . Determining the Proper Analytical Methods to Monitor Contaminants. **J. Szpylka**

2:35 60 . Sample Preparation and Homogeneity of Cannabis and Hemp Inflorescence. **K. Evans**

3:04 61 . Finding Stability in Stored Cannabis Products. **A. Baillo**, S. Lundfelt **3:33 62 .** Hemp Purification with Liquid Chromatography: Benefits, Processes and Products. G. Todosiev

4:02 63 . Cannabis Sativa Plant Material and Related Products: a Previously Unfamiliar Sample Preparation Challenge. **T. Chambers**

4:31 64 . Cannabinoid Biosynthesis, Derivatization, and Implications in Hemp Production.. **R. Sorensen**

Classroom 108

The History of Chemistry and Art

S. E. Hubbard, M. Orna, *Presiding*

1:00 Introductory Remarks.

1:05 65 . Using History and Hands-on Activities to Increase Student Engagement in a Non-majors Course on the Chemistry of art. **S.E. Hubbard**

1:35 66 . Dyeing to Learn Chemistry: Exploring the Chemical Foundation of the Fiber Arts. A.H. Gorensek-Benitez

2:05 67 . Molecular Modernism: a Study Abroad Course in France that Teaches the Development of Modern Art from Realism to Abstraction Through a Scientific Lens. **J.E. Fieberg**

2:35 Intermission.

3:00 68 . Revisiting Iris Green: Medieval Meets Modern in the Classroom. **L.D. Schmitt**, H. Becker, P. Smart, V. Imbruce, C. Lyons, J.T. Pietras, A. Kastner, N. Um **3:30 69 .** Materials Matter: Teaching the Chaîne Opératoire of Roman Painters, Their Material Choice, and Process. **H. Becker**

4:00 70 . Project MUSE: MUseum Sabbatical Experience for Faculty Teaching at the Arts-Science Interface. **G.D. Smith 4:30** Panel Discussion.

4:50 Concluding Remarks.

Classroom 106

Physical

X. You, *Presiding*

2:00 71 . Structural and Electronic Analysis of the Octarepeat Region of Prion Protein with four Cu(II) by Polarizable MD and QM/MM Simulations. **J. Nochebuena**, L. Quintanar, A. Vela, G. Cisneros

2:20 72 . Tumor Suppressor BRCA1/BARD1 Interactions with Nucleosome Histones. **D.T. Ranathunga**, H. Torabifard

2:40 73 . Understanding the Transport Mechanism of CLC^{F} F^{-}/H^{+} Antiporters Using Molecular Dynamics. **K. Mills**, H. Torabifard

3:00 74 . Computational Studies of Fluoride Ion Channel. **A. Akintayo**, H. Torabifard **3:20** Intermission.

3:50 75 . Origin of Sugars for Membrane Protection: An Ultrafast Study of the H- Bond Network at the Lipid-Water Interface. **X. You**

4:10 76 . Influence of Acetaminophen and Salt Concentration on Molecular Adsorption and Transport Properties at Colloidal Liposome Surfaces Studied by Second Harmonic Generation Spectroscopy. **A.S. Dikkumbura**, A.V. Aucoin, R.O. Ali, G.J. Schneider, L.H. Haber

4:30 77 . Dark Exciton Mediated Enhancement of Hot Electron Generation in Mn- doped $CsPbBr_3$ Nanocrystal. **C. Wang**, T. Qiao, D. Son

Classroom 115

What's in your glass? Science and Technology of Fermented Beverage Production

J. Beaver, *Presiding*

2:00 Introductory Remarks.

2:05 78 . Quality Matters: Recent Studies on Beer. **C. Bamforth**

2:30 79 . Properties of Starches and Fermentable Sugars in Malting and Brewing. **G. Fox**

2:55 Intermission.

3:05 80 . Grapevine Red Blotch Virus (GRBV) Alters Grape skin Cell Wall Composition Leading to Retention of Phenolic Compounds During Winemaking. **A. Rumbaugh**, C. Medina Plaza, A. Perry, A. Oberholster

3:30 81 . Investigating Extraction and Reutilization of Oak Products in Model Beverage Systems. **J. Belew**, J. Beaver

3:55 82 . Heuristics for Rapid Fermentation Process Development: A Case Study. **K.V. Miller**, **A. Garado**

4:20 Concluding Remarks.

MONDAY MORNING

Classroom 104

Biochemistry

E. Lara, *Presiding*

8:00 83 . Chain-Selective Isotopic Labeling of Chlamydial Scc4:Scc1 Type III Secretion System Chaperone Complex in *E. coli* for NMR Studies. **H.C. Wickramasinghe**, J.N. Lincoln, T.O. Ukwaththage, L. Shen, M. Macnaughtan

8:20 84 . T4 RNA Ligase-mediated assemble of long L-RNAs. **C. Yu**, A. Kabza, J. Sczepanski

8:40 85 . Exploring Interactions between RNA and Thymine DNA glycosylase (TDG). **L. McGregor**, J. Sczepanski, C. Deckard

9:00 86 . Investigating the H-loop of Human Glutathione Synthase. **J. Gruber**, L. Haynes, H.C. Webb, M.E. Anderson

9:20 Poster Session and Coffee Break.

10:20 87 . Expanding the Sulfur Metabolome: Characterization of Intra- and Extra- cellular H_2S and Small Oxoacids of Sulfur (SOS) in Cell Culture Models.. **O. Scrivner**, A. Ismaeel, P. Koutakis, P.J. Farmer

10:40 88 . COMPUTATIONAL MODELLING OF DRUGS FOR ALZHEIMER'S DISEASE (AD) AND APPLICATIONS ON ARTIFICAL NEURAL NETWORK SYSTEMS (NETS). **N. Masarweh**

11:00 89 . Exposure to Combustion-derived Air Pollution may induce prolonged neuroinflammation. **S.H. Pradhan**, M. Gibb, C. Sayes

11:20 90 . Chemical and Physical Interactions Between β-glucan and Fat Molecule in Aqueous Media. **T. Islam**, M. Huda, M. Ahsan, H. Afrin, C. Salazar, M. Nurunnabi

11:40 91 . Identification of Selective anti Triple-negative Breast Cancer Daphnane Type Diterpenoids with Immunogenic Potential. **C.S. Fermaintt**, R.H. Cichewicz, A.L. Risinger

Classroom 105

Bioinorganic Chemistry

M. J. Rose, *Presiding*

8:00 Introductory Remarks.

8:05 92 . Chalcogen Family Feud: Oxygen Tolerance in Biomimetics of [NiFeS]-

and [NiFeSe]-Hydrogenase Active Sites. **M.Y. Darensbourg**, X. Yang, M.B. Hall, L. Elrod

8:35 93 . Investigating via Model Complexes the Metal Dependent Dual Function of a Unique Dioxygenase: Acireductone Dioxygenase (ARD). **S.A. Toledo**

9:05 94 . Enhanced Rates of Indole Dioxygenation by a Synthetic Heme Iron(III)- Superoxo Model in the Presence of Lewis Acid Coordination Complexes. **G. Tolbert**, G.B. Wijeratne

9:25 95 . Mimicking the H-Cluster of [Fe-Fe] Hydrogenase Enzyme. **C.A. Mebi 9:55** Intermission.

10:10 96 . Antioxidant Activity of Manganese PyN_3 and Py_2N_2 Complexes through Hydrogen Peroxide Disproportionation.. **K.N. Green**, D.M. Freire

10:40 97 . Design of a β-lactoglobulin-derived artificial metalloenzyme inspired by [Fe]-hydrogenase. **S. Goralski**, P. Leclair, M.J. Rose

11:00 98 . Interconversion of Nitrogen Oxides with Bio-inspired High-Valent Heme- Oxygen Intermediates. P. MONDAL, G. Tolbert, **G.B. Wijeratne**

11:30 99 . Primary and secondary coordination sphere effects control the reactivity of Mn^{III}-hydroxo complexes. **T.A. Jackson**, A.A. Opalade

Classroom 107

Chemical Education

G. R. Shelton, *Presiding*

8:00 100 . Modification and Optimization of a Two-Step Oxidation-Oxime

Experiment for Sophomore-Level Laboratory Course. **A. Verma**, N. Goyal

8:20 101 . Application of *cis-trans* Isomerization of Azobenzene to Engineering Science: An Interdisciplinary Connection of Organic Chemistry. **U. Panse**, V.C. Waghulde

8:40 102 . Secondary Chemistry, Physics, and Mathematics Teaching: Do you know the Facts?. T.M. Chambers, J. Breakall, E.C. Gravely, E.J. Yezierski, J.B. Nielson, **W. Hunter**

9:00 103 . Use of a Math Skills Test to Predict Success in First-Semester Organic Chemistry. **K. Lee**, **B. Rix**
9:20 Intermission.
10:20 104 . Early Warning: Automaticity Diagnostic Instruments for General Chemistry. **G.R. Shelton**, D.S. Mason, B. Mamiya
10:40 105 . Foundational MUST-know Skills for General Chemistry. **D.S. Mason**, V.M. Williamson, R.J. Weber, S. Broadway, A. Petros, B. Mamiya, D.R. Walker, C.B. Powell, G.R. Shelton, A. Dubrovskiy, B. Jang, A. Villalta-Cerdas
11:00 106 . New ACS resources for Chemical Safety. **K.P. Hunter**
11:20 107 . Efforts Toward a Cheminformatics Community Discovery Portal. **W.J. Allen**, M. Hassan, H. Garcia, J. Garcia, J. Sanchez, S. Sirimulla, Y. Sun, Y. Cao, Y. Shen, S.J. Watowich
Classroom 103
Keynote Symposium in Honor of Prof. Livia Eberlin
Chemical Innovations for Biology and Medicine (I) : The Fundamentals
D. Samanta, *Presiding* **8:00** Introductory Remarks.
8:05 108 . Probing Cytoskeletal Cellular Heterogeneity with Microscale Chemical Fractionation. **J. Vlassakis**
8:25 109 . Understanding O-GlcNAc Functions through Protein Synthesis. **M. Pratt 8:45 110 .** Delivery of Macromolecules into live Human Cells: Exploiting the Endocytic Pathway to Gain Access to the Cytosoliic Space. **J. Pellois**
9:05 111 . Biomedical Applications of Expanded Porphyrins. **J.L. Sessler**
9:35 Poster Session and Coffee Break.
10:30 112 . Using the Next-Generation Sequencing Platform for Massively Parallel Selection of Fluorescent Nanomaterials. **T. Yeh**
10:50 113 . Heterochiral DNA Circuits: Interfacing Oligonucleotide Enantiomers in Living Cells. W. Zhong, N. Kundu, **J. Sczepanski**
11:10 114 . DNA-Based Nanostructures for Live-Cell Chemical Analysis. **D. Samanta**
11:30 115 . Advancing Metallomics and Metabolomics through Developing DNAzymes and Aptamers for Selective Imaging of Metal Ions and Metabolites in Living Organisms. **Y. Lu**
Classroom 106
Physical
T. Lewis, *Presiding*
8:00 116 . Effects of Electronic Coupling on Bright and Dark Excitons in 2-Dimensional array of Strongly Confined $CsPbBr_3$ Quantum Dots.. **X. Tang**, D. Son **8:20 117 .** Photo-Enhanced Catalysis of Nano-Plasmonic Array at the Single-Molecule Level. **G. Yan**, W. Shih, T. Chen, A. Masud
8:40 118 . Effect of Magnetic Doping on Bright and Dark Exciton in Strongly Confined $CsPbI_3$ Quantum Dots. **T. Qiao**, X. Liu, D. Rossi, M. Khurana, Y. Lin, J. Wen, J. Cheon, A. Akimov, D. Son
9:00 119 . Study of Ceria-based Catalysts for Carbon Dioxide Dissociation.. **P. Mynarski**, A. Kamath, D. Perin, B. Jang
9:20 120 . Two-Dimensional Conjugated Covalent Organic Frameworks under High- Pressure. **S. Wang**, H. Yan
9:40 Poster Session and Coffee Break.
10:30 121 . Pressure-controlled topochemical polymerization in two-dimensional hybrid perovskite. **L.M. Abu-Amara**, P. Roman, N. Kotha, D. Solis-Ibarra, H. Yan
10:50 122 . Directing Amyloid-β Structural Polymorphism: The Relationship Between Fibril Structure and Phenotype. **H. Pan**, M. Lucas, E. Verbeke, G. Partipilo, E. Helfman, L. Kann, B.K. Keitz, D. Taylor, L.J. Webb
11:10 123 . Nonadiabatic Chemistry Kinetically Characterized Through the Single Photon Initiated Dissociative Rearrangement Reactions (SPIDRR) Technique. **D.J. Bellert**, T. Lewis
11:40 124 . Kinetically Characterized Competition Between Nonadiabatic and Adiabatic Reaction Pathways in the Two-state Reactive Co^+ Mediated Decomposition of Acetaldehyde. **T. Lewis**, D.J. Bellert
Classroom 108
The History of Chemistry and Art
Cosponsored by HIST
S. E. Hubbard, M. Orna, *Presiding*
8:00 Introductory Remarks.
8:05 125 . Chemistry & Art of Ancient Texans. **K.L. Steelman**
8:40 126 . Modernity of Ancient Pigments. **M. Orna**
9:15 127 . Chemistry, Alchemy, and (al)chemists in Cartoons and Poetry. **N.V. Tsarevsky**

9:50 Intermission.
10:05 128 . True or false?: Reverse Engineering a Panel Painting at the Indianapolis Museum of Art. **G. Rayermann**, A. Stein, G.D. Smith
10:40 129 . Scanning MA-XRF Analysis of Mordants in a 19th century Baluchi rug.
A.C. Bowman, V. Chen, G.D. Smith **11:15** Panel Discussion.
11:45 Concluding Remarks.
Classroom 101
Main Group Chemistry in the Southwest Main Group Metals in the Southwest
T. Hudnall, *Presiding*
8:20 130 . Investigating the Chemistry of Boratabenzene and 9-Borataphenanthrene Anions. C. Martin
8:40 131 . Tailoring the Properties of Polyaromatics with Boron. **F. Jaekle**
9:00 132 . Pnictogen-bonded self-assembled reverse bilayer vesicles: How vesicle properties are affected by molecular structure. **O.H. Villanueva**, S. Moaven, C.D. Agarwal, A.F. Cozzolino
9:20 133 . A Porous Chalcogen-Bonded Organic Framework. **C. McGuirk 9:40** Poster Session and Coffee Break.
10:40 134 . Lewis Basic Metal-Organic Frameworks as Solid-State Ligands. **S.M. Humphrey**
11:00 135 . Boron-doped Conjugated Heterocycles Towards Functional Hybrid Main- group Materials. **K. Wentz**, A. Molino, S. Weisflog, L. Freeman, A. Kaur, D. Dickie, D. Wilson, R.J. Gilliard
11:20 136 . ROMP Boranes: Polymer-Supported Metal-free Catalysts. **J. McQuade**, F. Jaekle, F. Vidal
11:40 137 . New Insight into Borenium Ion Materials. **R.J. Gilliard**, K.K. Hollister, C. Taylor, J.E. Walley, K. Wentz, N. Jones, A. Molino, D. Wilson
Classroom 115
Materials
P. Wei, *Presiding*
8:20 138 . The Synthesis of Caprylate and Cholate-Capped Mixed Metal Ferrite Nanoparticles and their Application against *Escherichia coli* and *Staphylococcus aureus*.. **M. Johnson**, T.M. Trad
8:40 139 . Defect and Dopant Properties of α-$LiAlSi_2O_6$. **S. Suthaharan**, I. Poobalasuntharam, K. Navaratnarajah
9:00 140 . Spatially Defined Radical-Containing Polymers for Enhanced Charge Transfer. **M. Qi**, J.L. Lutkenhaus, E.B. Pentzer
9:20 141 . Preparation of Well-Exfoliated Poly(ethylene-*co*-vinyl acetate)/α- Zirconium Phosphate Nanocomposites. **M. Zhao**, J. Baker, Z. Jiang, Z. Zhu, H. Wu, J. Wu, W. Kang, H. Sue
9:40 Poster Session and Coffee Break.
10:40 142 . Investigation of Visible Light-Mediated Photocatalytic Click Reaction on a Gold Surface by ATR-FTIR, XPS, and STM. **S. Sulthana**, E. Echeverria, A. Singh, A. Yost, J. Estrella, D. McIlroy, J.D. Weaver, Y. Vasquez
11:00 143 . Quantification of Meso- and Macro-scale Ordering of Colloidal Semiconductor Nanorods in the Presence of AC Electric Fields. **R.J. Ratnaweera**, F.A. Rodríguez, N.J. Gripp, M.T. Sheldon
11:20 144 . Crystal Phase- and Size-Controllable Synthesis of $CsPbBr_3$ Nanorods. **J. Wen**, F.A. Rodriguez Ortiz, M.T. Sheldon
11:40 145 . Surface Defects and Hydrophobicity of Hexagonal Boron Nitride Contribute to Efficient PFOA Photo-Oxidation. **B. Wang**, Y. Chen, K. Heck, J. Samba, X. Huang, J. Metz, Q. Li, P.K. Westerhoff, P.J. Alvarez, T. Senftle, M.S. Wong
Classroom 116
Organic
B. Lee, *Presiding*
8:30 146 . An Emerging Platform for the Synthesis of Indirubin. **J.A. Shriver**, K. Kaller, S. Sterrenberg, M. Van Vors, K. Wang, J. Horner, J. Cheek
9:00 147 . Triethylsiloxy-Hemiaminal, an Excellent CH_2NR_2 Transfer (Mannich reagent): Reactions with Organometallc Amines. **K.H. Pannell**, H.K. Sharma
9:30 Intermission.
10:30 148 . Applications of Oxalyl Chloride in Organic and Medicinal Chemistry to Obtain Diverse Molecules. **J. Stec**
11:00 149 . New Insights of Impact of Water as Co-Catalyst in Platinum(II) and Palladium(II) Catalyzed Hydroarylation of Acetylene. **C. Hahn**, L. Garcia, V.N. Rodriguez, N.T. Nguyen
11:30 150 . Organic Molecules as Forensic Fuel Markers. **R. Wright**
Zlotnik Ballroom 4 5 6
Analytical Undergraduate Posters
9:00 - 11:00

151 . The Effects of Arsenic in Flood Water on Two American Rice Cultivars. **T. Wodu**, C. Briles, A.M. Bray
152 . Study of Iodine Distribution and Concentrations in Western Oklahoma Brine Waters and Recycling of Used Chloroform. **J.R. Wickham**, K. Baugh, B. Baker, D. Edlin
153 . Determining the Dissociation Enthalpies and Relative Stability of Alternative Metal Binding Peptides with Zn(II), Ni(II), and Nitrilotriacetic Acid using ion Mobility Mass Spectrometry. **C.L. Duvak**, C.L. Mitchell, A.J. Corrales, A.V. Arredondo, A.A. Flores, L.A. Angel
154 . Controlling Temperature and Oxygen Partial Pressures for Hemoglobin Studies. **A.J. Perez**, K. Jordan, C.S. Hernandez, A. Cole, D.E. Thompson
155 . Temperature and Dissolved Oxygen Gradients in Hemoglobin Solutions Induced by Headspace Purging. **C.S. Hernandez**, A.J. Perez, K. Jordan, D.E. Thompson
156 . Calculating the Ratios Between Various Sub-forms of Hemoglobin or Myoglobin. **K. Jordan**, A.J. Perez, A. Cole, C.S. Hernandez, D.E. Thompson
157 . Determination of caffeine concentration in kombucha via multivariate regression modeling of UV-visible spectral data. **C. Rosenblad**, J.R. Ingle
Zlotnik Ballroom 4 5 6
Biochemistry Undergraduate Posters
9:00 - 11:00
158 . Synthesis of a Bovine Serum Albumin Hydrogel Crosslinked with a Modified Polyethylene Glycol. **Q. Alavez**, **J.R. Sanchez**, **J. Jean-Francois**
159 . Fibrous self-assembly of oppositely charged α-helical peptides. A. Rue, Y. Wijesundara, J.J. Gassensmith, **J.A. Hebda**
160 . Understanding the Sequence Requirement for NMT’s Lysine Myristoyltransferase Activity. **S. Nguyen**, D. Hou, H. Lin
161 . Blood Brain Barrier Penetration and Particle Size Distribution Studies with two (5% and a 10%) Aqueous Formulations of the Cyanide Antidote Candidate Dimethyl Trisulfide (DMTS). **W.G. Lao**, B.C. Nelson, K.D. Kelley, C.T. Rios, **B.N. Nwankwo**, **R. Quilantan**, **F.M. L’ Roy**, **S.L. Kershner**, I. Petrikovics
169. Withdrawn
162 . Expression of a Baeyer-Villiger Monooxygenase from *Thermobifida fusca* in *E.coli* and Analysis of Reactivity. **P. Bennett**, M. Hinze
163 . Comprehensive Analysis of Bacterial tRNA Gene Spacing Reveals Flaws in Accepted tRNA gene Cluster Array Definition. **J.D. Rodriguez**, R.L. Moore
164 . Effect of Point Mutations on Residue 62-70 of Beta-2-microglobulin on Elongation Rate of Amyloid Formation. **H. Patel**, J. Richardson
165 . Phosphates for protection, not detection: Development of a non-radiolabeled strand exchange assay. **P. Patterson**, A. Alvarez, R.L. Moore
166 . Exploring the reactivity of a Baeyer-Villiger monooxygenase from Thermocrispum municipale expressed in E. coli.. **A.H. Ramirez-Wiggins**, M.E. Hinze
167 . Binding Properties of Repair Protein RecA Suggest Direct Role in Tuberculosis Drug Resistance. **A. Alvarez-Garcia**, P. Patterson, K. Rickman, E. Hamzy, R.L. Moore
168 . Design, Development and Synthesis of Small Molecule Inhibitors of the Solute- binding Protein AztC. **T.M. Moore**, E. Yukl, D.J. Leaver
169 . Collagen Mimetic Peptides for Integrin Binding. **M. Helterbrand**, C. Peterson, J.D. Hartgerink
170 . Investigating Electrostatic Interactions within the C-terminal strand Exchange Within αB-Crystallin Oligomers. J. Moya, C. Peterson, **J.A. Hebda**
Zlotnik Ballroom 4 5 6
Chemical Education
Undergraduate, Graduate, and Professional Posters
9:00 - 11:00
171 . Midland College American Chemical Society Student Chapter Activities During the Pandemic. **S. Goss**, J. Markgraf, E. Mangan, Z.Y. Falana, J. Anderson, **P. Kesavan**
172 . Alkenes and Alkynes of Trouble: Optimization of Markovnikov Addition of HBr to Various Alkenes and Alkynes using Zinc. **C.E. Spencer**, B.A. Hathaway
173 . Understanding Density and Viscosity of Aqueous Solutions in the Chemistry Laboratory. **R. Zablah-Vasquez**, J. Jimenez, A. Villalta-Cerdas
174 . Chemical Composition of Copper-tin-aluminum Alloys from a System of Three Equations in Three Variables via Non-destructive Sample Analysis. **A. Van- Sertima**, **M. Tabor**, R. Zablah-Vasquez, A. Villalta-Cerdas
175 . Single and Double Functionalized Nanoparticles for Condensate Banking Mitigation. **M. Sayed**, R. Saini
176 . IONiC: Virtual community and teaching resources for inorganic chemists. **T. Thananatthanachon**
177 . Get involved with the ACS Division of Chemical Education. **S.G. Prilliman**
178 . Through the Eyes of Students: What I wish I had known when I was taking Chemistry. **E.T. Piedra**, C.J. Luxford
179 . Exploring the role of Interfacial Cation in F ion Channel using MD Simulation: Application of Computational Chemistry. H. Torabifard, **Z. Momin**, **A. Chezhian**
Zlotnik Ballroom 4 5 6

Inorganic Undergraduate Posters

9:00 - 11:00

180 . Synthesis and Crystal Structures of Copper Complexes with Neocuproine: An Inorganic Approach to Potential Alzheimer's Disease Therapeutics. **E. Botcher**, **A. Garcia**, **E. Stokes**, **R. Chupik Adams**

181 . Extended collection of Lanthanide Coordination Polymers with Functionalized Terephthalate Linkers. **M. Van Rheede van Oudtshoorn**, **A. Henry**, M. Zeller, R.A. Zehnder

182 . Solventless Catalytic Dehydrogenative Coupling of Alcohols using POCOP and PNCNP Nickel and Ruthenium Catalysts. **M. Bhaskara**, **P. Haran**, T. Thananatthanachon

183 . Synthesis of Water-soluble Ruthenium and Iridium Catalysts and Their Applications in Transfer Hydrogenation Reactions with Sugars as Hydrogen Donors in Water. **Z. Eaglin**, **N. McMurtry**, T. Thananatthanachon

184 . Second Generation Ni-N3O Structural Models for the Active Site of Nickel Acireductone Dioxygenase (Ni-ARD): Synthesis, Characterization, and Biomimetic Reactivity. **M. Arnold**, E. El-Shaer, G. Barone, V. Lynch, S.A. Toledo

185 . Synergistic Thermal Analysis for Crystal Growth of Intermetallics. **A. Neill**, J. Chan

186 . Substitution Reactions Involving the Hydride Ligands in a Pyrazolate-Bridged Dinuclear Osmium(II) Complex. **S.K. Dunn**, **E.A. Bryant**, G.L. Powell

187 . Syntheses and Structures of Two Benzamidate-Bridged Diosmium Sawhorse Complexes. **R.I. Atkins**, **S.Y. Tran**, C.B. Powell

188 . Investigation of Anion Influence on 1,1’-methylenebis-4,4’-bipyridinium and its Coordination to (maleonitrile-2,3-dithiolato)platinum(II). **S.A. Schuster**, B.W. Smucker

189 . Investigation of the Role of Anions in the Coordination of Bipyridinium Ligands with Platinum(II) Dithiolene Complexes. **H.C. Neal**, B.W. Smucker

190 . Dinuclear Copper(II) Complexes with 2,2'-bipyrimidine: Synthesis and Characterization. **J.J. Rios**, H. Arman, B. Leverett, R.A. Adrian

191 . Synthesis of Novel Copper(II) Complexes Containing 2,6-bis(2- benzimidazolyl)Pyridine as Ancillary Ligand. **C.C. Colunga**, H. Arman, B. Leverett, R.A. Adrian

Zlotnik Ballroom 4 5 6

Materials Undergraduate Posters

9:00 - 11:00

192 . Aptamer-Functionalized PEDOT-ProDOT Copolymers for the Electrochemical

Detection of Diseases. D. Runsewe, **G. Haya**, T. Betancourt, J.A. Irvin

193 . Synthesis of Magnetite-Carbon nano-Onions Composites for Environmental

Remediation Applications. **S. Simmons**, **A. Van-Sertima**, A. Villalta-Cerdas

194 . Maximizing Degree of Polymerization in Chemical Oxidative Polymerization of Thiophenes. D.D. Hebert, M. Naley, **C.C. Cunningham**, D. Sharp, E.E. Murphy, V.S. Stanton, J.A. Irvin

195 . Ionic Liquid Interactions with Molecular Solvents. **K. Rush**

196 . Alternative to Modern Wound Dressings: Developing a Biodegradable Collagen

Analog. **A. Tarlton**, S.K. Hamilton

197 . Cellulose Nanocrystal Stabilized CO_2 Emulsions in Simulated Underground

Conditions. **A. Ibarra**, S. Parajuli, E.E. Urena-Benavides

Zlotnik Ballroom 4 5 6

Organic

Undergraduate Posters 9:00 - 11:00

198 . Efforts Towards the Total Synthesis of Anisucoumaramide. **B. Beshires**, **J. Hittson-Smith**, **A. Kim**, R.J. Felix

199 . Preliminary Development of an Allylic Bis-urea Derived from Caffeic Acid. **K. Fitzgerald**, A.J. Carr

200 . Novel synthesis of a bis-urea organogelator containing an ethylene and vinyl spacer from a benzaldehyde derivative. **M. Le**, A.J. Carr

201 . Asymmetric Transfer Hydrogenation of Ketophosphonates Catalyzed by Iridium (III) and Imidazolium Ion Tethered TsDPENs Ligands in Water. H. Pham, J. Lee, P. Quan, **B. Ni**

202 . Progress Towards a Stereoselective Synthesis of Substituted Pyranones. M.D. Ruane, **D. Englehart**, **M. Wold**

203 . Substituent Effects on the Diels-Alder Reactions for the Synthesis of Hydrogels. **C. Hinson**, A.D. Headley

204 . Cobalt-Catalyzed Synthesis of Biologically Relevant Pyrazoles and Isoxazoles. **U. Owunna**, D. Basnet, S. Murru

205 . Measurement of Hammett Sigma Values for Common Boryl Substituents. **M.C. Hochberg**, **M.E. Kaiser**, **L.G. Geddie**, J.E. Dannatt

Zlotnik Ballroom 4 5 6

Physical Undergraduate Posters
9:00 - 11:00
206 . Investigation into the electronic and structural properties of C_{24} derivatives: A study utilizing density-functional theory. **S. Jang**, K.A. Beran
207 . Self-assembled Monolayers for Biosensing Applications: Preliminary characterization with Reflection Absorption Infrared Spectroscopy and Quartz Crystal Microbalance. **V. Do**, J.L. Godino, J. Casasent, A. Schimpf, A. Mefful, R.S. Thompson
208 . Effect of Native Environment on Light-harvesting in Photosynthetic Diatoms. **M.A. Buhari**, F.M. Gonzalez, G.A. Cano, L.R. Fantz, S.C. Massey
209 . Additivity in Computational Association of Amino Acids. **C.A. Lewis**, C.J. Fennell
210 . Mixed Self-assembled Monolayers: Using Reflection-Absorption Infrared spectroscopy and Contact Angle Goniometry to Characterize Functionalized Gold Surfaces for use in Biosensors. **A. Schimpf**
211 . Investigation of Hydrothermal Liquefaction of Chlorella with Y Zeolite. **V. Duran**, T. Haque, M. Brdecka, J. Suzuki, B. Jang
212 . Promoted Palladium Catalysts for Liquid Phase Selective Hydrogenation of Alkynes. **H. Burt**, C. Nealy, R. Qabbani, F. Duran, D. Knight, B. Jang
MONDAY AFTERNOON
Classroom 104
Biochemistry
C. Hjorth, *Presiding*
1:00 213 . Hydrophobic Catalysis by L-Ascorbic Acid: A supramolecular Strategy to counter the SARS-CoV2 ADP Ribosyl Glycohydrolase. **R.M. Davidson**
1:40 214 . Targeting RNA Virus Variability with Physicochemical Property Consensus Proteins and Peptides. **C.H. Schein**, G. Rafael, J. Schmidt, S. Weaver, W. Braun
2:20 Poster Session and Coffee Break.
3:20 215 . *in vitro* Glycosylation of Membrane Proteins and Quantitative Analysis. **G. Cook**
4:00 216 . Cellular Activities of SARS-CoV-2 Main Protease Inhibitors Reveal Their Unique Characteristics. **W. Liu**
Classroom 105
Bioinorganic Chemistry
M. Zastrow, *Presiding*
1:00 217 . Probing the Frataxin Homolog 1 (Yfh1) Deficiency Phenotype using Mössbauer Spectroscopy and Mathematical Modelling. **P.A. Lindahl**
1:30 218 . HygY is a Twitch Radical SAM Epimerase with Latent Dehydrogenase Activity Revealed Upon Mutation of a Single Cysteine Residue. **R. Besandre**, Z. Chen, I. Davis, J. Zhang, M.W. Ruszczycky, A. Liu, H. Liu
1:50 219 . Cu-dependent CTR1 Oligomerization and Cu-uptake regulation. **T. Chen**, M. Wen, G. Yang
2:20 220 . Photoresponsive Probes to Regulate the Activity of Carbonic Anhydrase V in Cancer Cells. **K. Aggarwal**, E.L. Que
2:40 Intermission.
2:55 221 . Discovering, Engineering, and Repurposing Fluorescent Proteins for Aqueous Chloride Sensing. **S. Dodani**
3:25 222 . Recent Spectrometric Advances in Identification and Characterization of Labile metal pools in *Escherichia coli*. **H.N. Brawley**, P. Lindahl
3:45 223 . Synthesis, Characterization and Bacterial Growth Inhibitory Properties of Schiff-Base Ligands Derived from Amino Acids. **J. Titah**
4:15 224 . Quantifying Intracellular Metal Catalysis One Molecule at a Time. **L. Do**, D. Nguyen, G. Yang, T. Chen
Classroom 107
Chemical Education
M. Kopecki Fjetland, *Presiding*
1:00 225 . REU Program for Community College Students at TAMU-Commerce. **B. Jang**, S.D. Starnes
1:20 226 . Investigating Undergraduate Organic Chemistry Students' Cognitive Processes when Viewing Stereochemical Representations. **M.B. Atkinson**
1:40 227 . *Can Students Learn Chemistry on Their Phones? Design and Classroom Implementation of Tech-Driven Learning Tools*. **K.D. Revell**
2:00 228 . Active Learning and Flipped Classroom a Large Organic Chemistry Lecture: How to Make the Huge Rooms Seem Small. **D.P. Collins**
2:20 Poster Session and Coffee Break.
3:20 229 . Utilizing Active Learning Strategies to Enhance Student Understanding of Foundational Concepts in Biochemistry. **M. Kopecki Fjetland**
3:40 230 . Chemistry for Your Life: Using Popular Media and Context-based Examples to Teach Chemistry. **M.A. Collini**, M.B. Atkinson, R.J. Weber
4:00 231 . Using the POE (predict, observe, explain) Strategy with Demonstrations using Graphs. **S.G. Prilliman**, A.K. Beathard, A.U. Asif
4:20 232 . New Approach to Learning About Science Ethics and Diversity. **D.J. Nelson**

Classroom 108
Inorganic
M. M. Shoshani, *Presiding*
1:00 233 . Adjusting Experimental Routes to Lanthanide Coordination Polymers for Preparation of Actinide Analogues. **R.A. Zehnder**
1:30 234 . Modulation of 4th Generation Ziegler-Natta Polymerization Catalyst Performance by Alkylaluminum Cocatalysts and their Mixtures in Combination with External Alkoxysilane Donors. **A.V. Marchenko**
2:00 235 . Ethylene and Acrylate Copolymerization by a Ni-Based Catalyst. **M.M. Shoshani**, T. Agapie
2:30 Poster Session and Coffee Break.
3:30 236 . Tailoring the in Situ Generation of Acid for a Range of Reservoir Conditions using Oxychlorine-ammonium Systems. **K.L. Hull**, A.J. Cairns
4:00 237 . Formation of Amorphous and Crystalline Cerium Sesquioxide by Pulsed Laser Ablation and Continuous Wave Laser Heating in Low Oxygen Environments. **A. Auner**, M.A. Burton, L.A. Nagel, J.C. Crowhurst, D. Weisz, K.B. Knight
4:30 238 . β-FeOOH Nanoneedles as a Precursor for the Synthesis of Fe_3O_4 and FeS_2 Nanoparticles. **Y. Vasquez**
Classroom 103
Keynote Symposium in Honor of Prof. Livia Eberlin
Chemical Innovations for Biology and Medicine (III) : Materials
D. Samanta, *Presiding*
1:00 239 . Design of Chiral Nanocapsules for Biological Applications. **k. margulis**, A. Zoabi
1:20 240 . Immune Modulatory Biomaterials for Cell-Based Therapeutics. **O. Veiseh**
1:40 241 . Seeing the Sound: a Materials Chemistry Approach for Ultrasonic and Optical Neuromodulation. **G. Hong**
2:00 242 . Magnetic Nanoclusters for Cancer Therapy. **G. Bao**
2:30 Poster Session and Coffee Break.
3:00 243 . Resolving Diagnostic Isomeric Lipids with Liquid Chromatography, Ion Mobility Spectrometry and Tandem Mass Spectrometry. **A.M. Hamid**
3:20 244 . On-demand electro-epoxidation for mass spectrometry-based lipidomics with isomer resolution. **M.E. Edwards**, S. Tang, H. Cheng, X. Yan
3:40 245 . Mapping Cellular Function Using 3D Single-molecule Super-resolution Microscopy. **A. Gustavsson**
4:00 246 . Mass Spectrometry Innovations to Advance Disease Diagnosis and Patient Care. **L. Schiavinato Eberlin**
4:55 Closing Remarks.
Classroom 101
Main Group Chemistry in the Southwest Main Group Metals in the Southwest
T. Hudnall, *Presiding*
1:00 247 . Adventures in Antimony Chemistry: Ligating Sb ligands to the late 3d metals. **M.J. Rose**
1:20 248 . Ligands Decorated with Fluoro Substituents in Transition Metal Chemistry. **R. Dias**
1:40 249 . Direct Reduction of Phosphate to Phosphite by Solvent free Mechanochemistry. **F. Zhai**, T. Xin, M.B. Geeson, C.C. Cummins
2:00 250 . Toward the Synthesis of Bismuth Ligated Paramagnetic Complexes. **B. Cashman**, M.J. Rose
2:20 Poster Session and Coffee Break.
3:20 251 . What X-ray Radiation Wavelength Should I use for my Diffraction Experiment?. **E.W. Reinheimer**
3:40 252 . Pnictogen Bonding in Anion Binding and Molecular Recognition. **A.F. Cozzolino**, C. Bateman, A. Brar, S. Moaven, J. Qiu
4:00 253 . Solution-Phase and Computational Studies on the Dynamic Covalent Exchange of Nitrogen-Containing Boronate Ester Derivatives. **D.E. Gross**
Classroom 115
Materials
P. Wei, *Presiding*
1:00 254 . Calcium Sulfate Formation on Different Zwitterionic Amphiphilic Copolymer Substrates: Implication for Developing Anti-scaling Surfaces. **M. Wang**, L.J. Samuel, H. Nguyen, A. Asatekin, D.F. Rodrigues
1:20 255 . Thermal Energy Regulation with 3D Printed Polymer-Phase Change Material Composites. **P. Wei**, C. Cipriani, E. Pentzer
1:40 256 . 3D Printing Porous Structures from Filled Polymeric Materials. **C. Cipriani**, T. Ha, O.B. Martinez Defilló, M. Myneni, Y. Wang, C.C. Benjamin, J. Wang, E.B. Pentzer, P. Wei
2:00 257 . Single Crystal Electrochemistry: Mapping site Preferences and Diffusion Pathways in Cathode Materials. **J. Handy**, S. Banerjee

2:00 Intermission.
3:00 258 . Photocatalytic conversion of formate to carbon monoxide via long-range hot electron transfer to transient intermediate species. **C. Orrison**, J. Meeder, B. Zhang, J. Puthenpurayil, M.B. Hall, M. Nippe, D. Son
3:20 259 . Microencapsulation of Bitumen for Solid-Phase Midstream Transportation and Protecting Vulnerable Ecosystems from Oil-Spill Contamination. **F. Anita**
3:40 260 . Development of Orthogonally Wettable Membranes for Cleaning Produced Water. **N. Rivera-Gonzalez**, A. Bajpayee, S. Banerjee
4:00 261 . Downhole Screening of Multiple Tubing Metallurgies Using Novel Coupon Holder in a High Temperature Gas Well. **M.H. Haque**, R. Saini, K.H. Muhammadi, A. Bukhamseen
4:20 262 . Slide-ring Polymers: Sustainable Oil and Gas Wells Construction. **H. Patel**
Classroom 116
Organic
Pre-Tenure Organic Faculty in the Southwest
A. A. Thomas, *Presiding*
1:00 263 . Exploring New Avenues for Organolithium Reagents. **A.A. Thomas**
1:30 264 . Iridium Catalyzed C–H Borylation of *N*-Methyl Amides. **J.E. Dannatt**, A. Yadav, M.R. Smith, R.E. Maleczka
2:00 265 . TBD. **J.B. Gary**
2:30 266 . Symmetry-driven total Synthesis of Complex Alkaloids. Z. Zhang, J.M. Aquilina, M. Smith
3:00 Intermission.
3:30 267 . Synthesis of Tricyclic Aromatic Heterocycles by C-H Activation. **J.L. Bolliger**
4:00 268 . Synthesis of Carbon Nanohoops via Alkyne Metathesis. **S. Lee**, X. Zhou, R. Herman
4:30 269 . Rapid synthesis of primary amines by radical C-H amination. **R. Comito**, S.K. Ghosh, M. Hu, L. He
Classroom 106
Uncovering Chemical Structure & Dynamics with Light
Uncovering Chemical Structure with IR Spectroscopy
J. D. Cyran, *Presiding*
1:00 270 . Sum Frequency Generation Microscopy of Surfaces. **S. Baldelli**
1:30 271 . Chemistry Beyond the Beaker: Spectroscopically Exploring Physico- Chemical Processes in Levitated Microdroplets. **R. Davis**
2:00 272 . Data-Driven Methods for Accelerating Vibrational Spectroscopy Modeling at the Medium to Large Scale. **D.P. Tabor**, J. Annis, A. Moody
2:30 Poster Session and Coffee Break.
3:30 273 . Probing the Surface Structure of THF: Water Hydrates. **J.D. Cyran**
4:00 274 . Structure and Dynamics of the Lithium Salts Solutions in Acetonitrile from low to High Concentrations. X. Chen, **D.G. Kuroda**
4:30 275 . Conformational Dynamics of Perfluorooctanoic Acid (PFOA) as Revealed by Molecular Rotational Resonance (MRR) Spectroscopy. R. Schilberg, S. Wei, **S. Twagirayezu**, J.L. Neill
Zlotnik Ballroom 4 5 6
Analytical Undergraduate Posters
2:00 - 4:00
276 . Plan for Headspace Detection of Sulfur-Containing Gases. **A. Cole**, K. Jordan, A.J. Perez, C.S. Hernandez, D.E. Thompson
277 . Investigating Chiral Recognition Through Feature Selection and Regression Analysis. **A. Billiot**, N. Black, K. Morris
278 . Determining Dissociation Enthalpies and Relative Stability via Collision- Induced Dissociation of Analog Methanobactin Heptapeptide Complexes with Nickel(II), Zinc(II), and Nitrilotriacetic Acid. **C.L. Mitchell**, C.L. Duvak, A.J. Corrales, A.V. Arredondo, A.A. Flores, L.A. Angel
279 . Collision-Induced Dissociation of Analog Methanobactin Heptapeptide Complexes with Ni(II), Zn(II), and Nitrilotriacetic Acid. **A.J. Corrales**, A.A. Flores, A.V. Arredondo, C.L. Duvak, C.L. Mitchell, L.A. Angel
280 . Effects of Polar Heads, Counter ions, and pH on Properties of Anionic Amino acid Surfactants. **B. Lowry**, N. Black, F. Abdulla, F.H. Billiot, E. Billiot, K. Morris
281 . Single-Point Modeling of Water Using Spherical Harmonics. **A. Bias**, C.J. Fennell
282 . Authenticating Aspirin Brands Using LC-MS/MS. **W. Than**
283 . Hydrogen Bonding as a Comparative Measure of Pseudostationary Phase Interactions in Enantioseparations Conducted by MEKC with Amino Acid-based Surfactants: A Molecular Dynamics study. **N. Black**, F. Abdulla, M. Garcia, E. Billiot, F.H. Billiot, K. Morris, Y. Fang

Zlotnik Ballroom 4 5 6
Biochemistry Undergraduate Posters
2:00 - 4:00
284 . Identifying *Trichoderma viride* volatile organic compounds that inhibit Neolentinus lepideus growth. **A. Hall**, M. Kopecki Fjetland
285 . Effects of *T. Viride* Volatile Organic Compounds on *N. Lepideus* Growth Inhibition and Protein Synthesis. **L. Rodriguez**, M. Kopecki Fjetland **286 .** Purification of Beta-2-microglobulin Mutants. **G. Burton**
287 . Naturally derived products of *Symphyotrichum ericoides* and *Monarda citriodora:* investigating their efficacy on *Escherichia coli* and triple negative breast cancer. **J. Rodriguez**, C.S. Fermaintt, T. Munguia
288 . Biological Activities of Ester Derivatives as Class 1 HDAC Inhibitors in MDA- MB-231 and MCF-7 Breast Cancer Cells. **B.J. Todd**, P. Pyenta, H. Shin
289 . Biological Activities of Chlorinated Derivatives Against Histone Deacetylases in MDA-MB-231 and MCF-7 Breast Cancer Cells. **A.D. Valenzuela**
290 . Plant-derived Natural Products of *Capsella Bursa* and *Parthenium Hysterophorus* and their biological effects on *Escherichia coli* and Triple Negative Breast Cancer. **K. Salinas**, C.S. Fermaintt, T. Munguia
291 . Investigating Cyanobacteriochromes as Platforms for Designing new Metal ion Sensors. **J. Jara**, **N.L. Abbasi**, G.C. Jensen, M.L. Zastrow
292 . Plant-derived natural products of *Medicago lupulina* and their Biocidal effect on *Escherichia coli* and Triple Negative Breast Cancer. **V.M. Lambert**, C.S. Fermaintt, T. Munguia
293 . Exchanging LaRP6 RNA recognition motifs between species suggests a novel intramolecular interaction. **I. Estrada**, S. Gonzalez, M.G. Carrizales, P.B. Chaiken, B.N. Godinez, H. Kulkoyluoglu, K.A. Lewis
294 . C-Terminal Domain of the RNA Binding Protein LaRP6 Is Intrinsically Disordered. **E. Hackler**
295 . Indirect Comparisons of Efficacy and Safety between Emerging Immunotherapy Regimens for Advanced Melanoma. **S. Cheemalamarri**, V. Konduri, C. Hofferek
296 . Analysis of Heme-binding Protiens from *Listeria monocytogenes* using Differential Scanning Calorimetry. **K. Craig**, K.J. Moore
297 . Investigating *Pseudogymnoascus destructans* Cu-uptake Pathways. **A. Friudenberg**
Zlotnik Ballroom 4 5 6
Chemical Education
Undergraduate, Graduate, and Professional Posters
2:00 - 4:00
298 . Adapting ACS Student Chapter Involvement During the COVID-19 Pandemic. **V. Do**, **J. Casasent**, B. Eamiguel, E. El-Shaer, J. Mendoza, R. Bates, M. Kopecki Fjetland
299 . Integration of Research into Upper-level Inorganic Labs Resulting in the Synthesis of new Cu(I) and Ag(I) Complexes with Mixed Azolate and Diimine Ligands. **B. Hitt**, R. Jawaid, H. Kouadio, **E. Dias**, A. Olivares, M. Rawashdeh-Omary
300 . Luminescent Complexes Doped in Organic Polymers for Radiation Detection. **T.N. Steveson**, L.M. Johnson, E.M. Fatila
301 . Molecular Genotyping the Texas Horned Lizard (Phrynosoma cornutum) - a Goal for Inquiry-based Learning in Biochemistry. **L. Chavez**, R. Torres, M. Dyson
302 . Microwave-Assisted Reaction For The Undergraduate Organic Chemistry Laboratory. **A. Hernandez**, **A. Guerra**, E. Ortiz, S. Ramasamy
303 . Exploring the Differences Between First-Generation and Non-first-generation Chemistry Students Approaches to Learning Chemistry. **J.A. Lanza**, C.J. Luxford
304 . Using Eye-tracking to Provide Insight on Students' Abilities to Identify Nucleophiles and Electron Movement within Serine Protease Mechanisms. **E.F. Gartman**, K.A. Lewis, C.J. Luxford
305 . Determination of Chemical Permeability Across the Blood-Brain Barrier Using Molecular Modeling. **C. To**, E.A. Nalley
306 . Potential of Ferrate(VI) for Treating Contaminants in the Lower Ganga River Water. **N. Cheemalamarri**, V.K. Sharma
Zlotnik Ballroom 4 5 6
Inorganic Undergraduate Posters
2:00 - 4:00
307 . Utilizing Biomimetic Complexes to Analyze the Active site Geometry and Mechanistic Involvement of Carbonate During the Peroxidase Activity of Superoxide Dismutase (SOD1). **T. Hays**, S.A. Toledo
308 . Oxidative Chemistry of Pyridine and Phenolate Based Nickel Coordination Complexes: Elucidating the role of Structure in the Development of Green and Efficient C-H bond Activation Catalysts. **D. Smith**, S.A. Toledo
309 . An Active Site Model Complex of Iron Acireductone Dioxygenase (Fe-ARD): Answering Questions about the role of Iron on Substrate and Oxygen activation. **M. Flores**, V. Lynch, S.A. Toledo
310 . Pincer type Mo complex catalyzed DODH of Polyols. L. Foreman, A. Shyam, A.A. Gallo, **R. Srivastava**

311 . Synthesis and Photophysical Characterization of new Cu(I)- and Ag(I)-based Azolate/polycylic Arene Complexes with and without Mechanical Grinding. R. Jawaid, **B. Hitt**, A. Olivares, V. Nesterov, M. Rawashdeh-Omary

312 . Synthesis and Characterization of a Cr(III) Polypyridyl Complex Containing the Extended Aromatic PDPPZ Ligand. **M.D. Voogd**, E.G. Donnay

313 . Cobalt acireductone dioxygenase (Co-ARD), a relevant enzyme involved in disease states linked to the methionine salvage pathway: Model complexes and early insights into the metal dependent activity of ARD. **S. Wiltz**, V. Lynch, S.A. Toledo

314 . Modeling the Aberrant Oxidative Reactivity of Human Superoxide Dismutase (SOD1) using N4-ligated copper(II) Complexes. **N. Del Bosque**, S. Papaleo, S.A. Toledo

315 . Zinc(II) complexes of 4'-chloro-2,2':6',2''-terpyridine: Synthesis, Characterization and Biological studies. **S.J. Ibarra**, H. Arman, B. Leverett, R.A. Adrian

316 . Group 13 Catalysts for Methane Activation. **D. Gupta**, T. Cundari

317 . New Complexes Incorporating the *N*,*N*-di-(*iso*butyl) Carbamoylmethyl[bis(*p*- HC_6H_4)] Phosphine Oxide Ligand, CMPO, and its Derivatives. R.L. Davis, A. Metta- Magaña, K.H. Pannell, **R.A. Zehnder**

318 . Model Complexes of the Manganese Bound Active Site of Mammalian Acireductone Dioxygenase (Mn-ARD). **B. Eamiguel**, V. Lynch, S.A. Toledo

Zlotnik Ballroom 4 5 6

Materials Undergraduate Posters

2:00 - 4:00

319 . Diazide-Functionalized Polypropylenedioxythiophenes for Aptamer Attachment via Click Chemistry and Subsequent Detection of Biomolecules. K.K. Burke, **G.E. Pohlman**, D. Runsewe, J.A. Irvin, T. Betancourt

320 . Microwave-Assisted Alcoholysis of Polycarbonate found in Electronic-waste. **R. Gallenstein**, G.A. Salazar-Garza

321 . Magnetic Remediation of Arsenic-Contaminated Aqueous Solutions using Caprylate-Capped Cobalt Ferrite Nanoparticles. **L. Hendrickson**, C. Weththasingha, C. Fong, T.M. Trad

322 . Functionalization of PEDOT Nanoparticles for Targeted Delivery to Cancer Cells. **L. Roe**, T. Betancourt

323 . Photothermally Responsive Hydrogels Based on Dynamic Covalent Bonds. **J. Zepeda**, T. FitzSimons, A. Rosales, T. Betancourt

Zlotnik Ballroom 4 5 6

Organic Undergraduate Posters

2:00 - 4:00

324 . Synthesis of carboxylic Acid mono-urea ligands and coordination to +2 transition metals. **R. Tobias**, A.J. Carr, B.W. Smucker

325 . Comparing Bioconjugation Techniques Using Murine Hepatocytes for Future Transplantation. **J. Hurn**, **J. Cantarella**, R.C. Genualdi, L. Dieringer, E.J. McGown, J.H. Kostyo, J. Quintana, R.R. Kane

326 . Optimization of the Cleavage of Beta O 4 Bond in Lignin Model Compound Using Vanadium Catalysts. **H. Takenaka**

327 . Synthesis and Anion Recognition Properties of a Carbazole Capped Porphyrin. **S. Garland**, S.D. Starnes

328 . Initial Bromination and Allylic Oxidation Steps in the Synthesis of Phorbasone A. **T. Peterson**, **E. Osborn**, K. Lee

329 . Preparation and in Vitro Metabolism of Anti-Cancer Natural Product Rooperol Analogues. **R. Conner**, **S.A. Mitchell**, C. Mondole, Z. Schwartz, J. Hermanson, **S.M. Kerwin**

330 . Synthesis of Isoxazole and Isoxazoline Heterocycles as Potential Inhibitors of Lysyl Oxidase. **M. Goulart**, D.M. Solano

Zlotnik Ballroom 4 5 6

Physical Undergraduate Posters

2:00 - 4:00

331 . Synthesis of Tunable Carboxylate-Terminated Diketopyrrolopyrole Ligands for PbS Nanocrystal-to-ligand Energy Transfer. **J. Boette**, D. Cadena, S.T. Roberts **332 .** Formation of Silicon-Carbon Hybrid Anode Material for Lithium-Ion Battery.

D.P. McDaniel, G.J. Smith

333 . Quantifying DMSO Uptake in Ice Crystals Using ATR Spectroscopy. **P. Viswanathan**, J.D. Cyran, C. Checinski

334 . Catalytic Hydrothermal Liquefaction of Chlorella to Bio-oils with ZSM-5. **M. Brdecka**, T. Haque, V. Duran, J. Suzuki, B. Jang

335 . Optimizing Structure and Formation of Self-Assembling Monolayers on Gold Surfaces. **A.A. Mefful**, V. Do, A. Schimpf, **R.S. Thompson**

336 . Direct Visualization of General Ferroelasticity Across Hybrid and Inorganic Lead Halide Perovskites. **J. Casasent**, B. Zhang, Y. Guo

337 . CO_2 Plasma Generation at Atmospheric Pressure: A Platform for Studying CO_2 Chemistry. **A. McNeill**, J.D. Beatty

TUESDAY MORNING

Classroom 107

Advances in Transition Metal Catalysis for Organic Synthesis

Cosponsored by ORGN J. D. Weaver, *Presiding*
8:00 Introductory Remarks.
8:05 338 . *Metal-Catalyzed Organoboron-Based Strategies for Stereoselective Organic Synthesis*. **S. Meek**
8:30 339 . Copper-Catalyzed Aminofunctionalization of Alkenes and Dienes. **Q. Wang**
8:55 340 . HAT Trick: Three Synthetic Stories Made Possible by Hydrogen Atom Transfer. **J.G. West**
9:20 341 . Fe-Catalyzed Multicomponent Radical Cascades: Mechanism and Applications. O. Gutierrez
9:45 Intermission.
10:30 342 . Making Chiral Heterocycles Using Chiral Heterocycles as Ligands. **A. Aponick**
10:55 343 . Efficient Synthesis of Small, Stereodefined Rings for Pharmaceutical Development. **E. McInturff**
11:20 344 . Desymmetrization via a Novel Pinner Cyclization. **K.S. Petersen**
Classroom 103
Analytical
D. Kurouski, *Presiding*
8:00 345 . Production of Biodiesel Using Shell-Derived CaO Catalyst and the spectroscopy quantification of biodiesel yield. **I. Nwobodo**
8:20 340. Withdrawn
8:40 346 . Formation and characterization of a stable monolayer of active acetylcholinesterase on planar gold. **J.M. Correira**, L.J. Webb
9:00 347 . Sustainable Application of Engineered Nanoparticles in Agriculture. **S. Shikha**, T. Ameh, C. Collom, C. Sayes
9:20 Intermission.
10:00 348 . Detection of Forensic Fuel Markers by Two-Dimensional Gas Chromatography. **J.D. Johnson**, J. Reyes, J. Griffith
10:30 349 . Thin Film Development Probed by Confocal Raman Microscopy Measurements on Individual Polymer Dispersion Droplets. **C.L. Korzeniewski**, Y. Liang, J.P. Kitt, J.M. Harris
11:00 350 . Biosensor for Glucose Determination Based on a Novel Recombinant Mn Peroxidase from Corn Cross-linked to a modified Gold Electrode. **A. Izadyar**
11:30 351 . Detection and Identification of Plant Biotic and Abiotic Stresses Using Raman Spectroscopy. **D. Kurouski**
Classroom 104
Biohybrid Macromolecular Systems and Supramolecular Assemblies
C. Callmann, *Presiding* **8:00** Introductory Remarks.
8:15 352 . Sequencing techniques: Single molecule protein and self-immolative oligourethanes. **E.V. Anslyn**
9:05 353 . Modular Design of Supramolecular Ionic Peptides with Cell-Selective Membrane Activity. **S. Yang**, H. DONG
9:30 354 . Tunable Lipid-Polymer Nanoparticles for the Polarization of Macrophages. **E. Bender**, L. Suggs
9:55 Intermission.
10:45 355 . Fabrication of Self-assembled Antimicrobial Nanofibers Via Peptide Self- assembly. **H. Dong**
11:35 356 . Combined Tumor Environment Triggered Self-Assembling Peptide Nanofibers and Inducible Multivalent Ligand Display for Cancer Cell Targeting with Enhanced Sensitivity and Specificity. **W. CHEN**, H. DONG
Classroom 105
Bioinorganic Chemistry
G. B. Wijeratne, *Presiding*
8:00 357 . Recent Advances in our Understanding of Pyranopterin Molybdenum Enzymes. **M.L. Kirk**
8:30 358 . Towards Modeling the Active Site of Phosphoester Hydrolases in Aqueous Media. **G.T. Musie**, W. Foley, H. Arman
9:00 359 . Trapping and Characterizing a Heptacoordinate side-on ferric-peroxo Intermediate in the C-C coupling mediated by cytochrome P450 CYP121. **R. Nguyen**
9:20 360 . Novel proposal for the mechanism of Quercetin Dioxygenases. **P.J. Farmer**
9:50 Intermission.
10:05 361 . Modeling Hydrogenases and Biomimetic Complexes. **M.B. Hall**, H. Tang, S. Niu
10:35 362 . Development and Application of new Bond Valence Sum Parameters for Tungsten-containing Metalloenzymes. **J. LePluart**, M.L. Kirk

10:55 363 . Reactivity Studies of Mononuclear and Dinuclear Iron Catalysts Bearing Durable Tetradentate Ligands for C-H Bond Functionalization. Z.H. Turner, **J.W. Jurss**

11:25 364 . Embedding mono-[Fe] Hydrogenase Mimics in a Protein Matrix: A Tale of Beta-Lactoglobulin. **M.J. Rose**, S. Goralski, P. Leclair

Classroom 115

Materials

J. A. Weeks, *Presiding*

8:00 365 . Are Nanoparticles a Threat to Drinking Water?. **K. Burleson**, L. Albert

8:20 366 . Incorporating Bioengineered Proteins and a Collagen Analog into Modern Wound Dressings. **J. Spiva**, S.K. Hamilton

8:40 367 . Negative Thermal Expansion HfV_2O_7 Nanostructures for Alleviation of Thermal Stress in Nanocomposite Coatings. **G. Liu**

9:00 368 . Calcium poly(heptazine imide): A Covalent Heptazine Framework for Selective CO_2 Adsorption. **J.N. Burrow**, R.A. Ciufo, Y. Wang, D.C. Calabro, G.A. Henkelman, C.B. Mullins

9:20 Poster Session and Coffee Break.

10:20 369 . Polymer Templating Method for the Formation of Hierarchically Porous Nitrogen-Rich Tin-Carbon Composite Anodes. **J.A. Weeks**

10:40 370 . Modular Design and Self-assembly of Multidomain Peptides toward Supramolecular Membrane-active Peptides. **R. Madigan**, S. Yang, A. Adones, H. DONG

11:00 371 . PMMA Nanocomposites Based on PMMA-Grafted α-Zirconium Phosphate Nanoplatelets. **Z. Zhu**, J. Baker, M. Zhao, C. Tsai, H. Sue

11:20 372 . Effects of flux type and molar ratio in the synthesis of intermetallics. **J.L. Ortega**

11:40 373 . Redox Mediated Li-S flow Battery for Grid-scale Energy Storage Applications. **M. Meyerson**, L. Small

Classroom 108

MOF Chemistry in the Southwest

S. M. Humphrey, *Organizer, Presiding*

8:00 Introductory Remarks.

8:05 374 . Functionalization of MOFs and MOF Composites Through Pore Engineering. **H. Zhou**

8:35 375 . Reinforcement of 2D Covalent Organic Frameworks with Interlayer Hydrogen Bonding Interactions. **R. Smaldone**

9:05 376 . Emerging Multifunctional Hydrogen Bonded Organic Framework Materials. **B. Chen**

9:35 Intermission.

10:10 377 . “Green Fracking” *vs* “Don’t Frack with Texas”. **M.A. Omary**, J. Fripp, R. Almotawa, R. Arvapally, S. Mandal, S.Q. Shi

10:40 378 . Physical Organic Tools for Understanding and Developing MOF Catalysis. **D. Powers**

11:10 379 . Porous Organic Polymer-based Nanotraps for Metal Source Recovery/Extraction from Water. **S. Ma**

11:40 Discussion.

Classroom 116

Organic

A. Nicely, *Presiding*

8:00 380 . Iridium-Catalyzed Hydroamination of Allylic Amines from Aryl Amines. **D. Portillo**

8:20 381 . Photoinduced Metal-free Radical α-C(sp^3)–H borylation of amines. **S. Sarkar**, S. Wagulde, X. Jia, V. Gevorgyan

8:40 382 . Visible Light-Induced Pd-Catalyzed Alkyl-Heck Reaction of Oximes.. **N. Kvasovs**, V. Iziumchenko, V. Palchykov, V. Gevorgyan

9:00 383 . Controlled Ring-opening Metathesis Polymerization of Pyridine-containing Monomers Derived from Heteroarynes. **S.N. Hancock**, N. Yuntawattana, Q. Michaudel

9:20 384 . Abundant Feedstocks in Catalytic Asymmetric C-C Coupling. **C.C. Meyer**, M.J. Krische

9:40 Intermission.

10:20 385 . Understanding Halide Effects in Enantioselective Ruthenium-Catalyzed Carbonyl Allylations of Arylpropyne Pronucleophiles via Hydrogen Auto-Transfer. **E. Ortiz**, M.J. Krische

10:40 386 . C−H Amination and Post Polymer Modification of Petroleum-derived Polymers. **M. Hu**

11:00 387 . The Scope of Copper-Catalyzed Three-Component Carboamination of Electron-deficient Atropates and Acrylates. A. Popov, **A. Nicely**, H. Wendlandt, G.L. Trammel, D. Kohler, K. Hull

11:20 388 . One-Pot Synthesis of Primary and Secondary Aliphatic Amines via Mild and Selective Imination of sp^3 C–H Bonds Mediated by Hypervalent Iodine Reagent. **S.K. Ghosh**, R. Comito

11:40 389 . Scandium-catalyzed (3+3)-annulation of Diaziridines with Benzoquinones. **J. Cortes Vazquez**
Classroom 106
Uncovering Chemical Structure & Dynamics with Light Exciton Dynamics in Chemical Systems
C. Baiz, S. T. Roberts, *Organizers* E. Baldini, *Presiding*
8:00 390 . Exciton and Valley Coherence in Atomically Thin Semiconductors. **x.E. li 8:30 391 .** Nonequilibrium Dynamics of Magnetically Dressed Excitons. **E. Baldini**
9:00 392 . Structural Dynamics of Materials and Molecular Assemblies and Underlying energy Transport Mechanisms Revealed by Reflection Ultrafast Electron Diffraction. **D. Yang**
9:30 Poster Session and Coffee Break.
10:30 393 . Dynamics of Bright and Dark Exciton in Isolated and Electronically Coupled Cesium Lead Halide Quantum Dots. **D. Son**
11:00 394 . Singlet Fission in Silicon|organic Film Interfaces. **J. Strain**, B. Pollok, C.D. Hallock, G.N. Ruiz, M.J. Rose, S.T. Roberts
11:20 395 . Thermal activation of Single-photon up-conversion in $CsPbBr_3$ Perovskite Nanocrystals. **K. Lytle**, M.T. Sheldon
Classroom 101
Main Group Chemistry in the Southwest Main Group Metals in the Southwest
T. Hudnall, *Presiding*
8:20 396 . Small Molecule Activation with “inverse” Frustrated Lewis Pairs. **C. Krempner**
8:40 397 . Telluronium Cations as Enhanced Chalcogen Bond Donors with Applications in Anion Transport and Catalysis.. **B. Zhou**, F.P. Gabbai
9:00 398 . Metal-Free Bond Activation by Redox-Active Carborane Clusters. **D.V. Peryshkov**
9:20 399 . Main Group Lewis Acids for Applications in Catalysis and Anion Transport. **F.P. Gabbai**
9:40 Poster Session and Coffee Break.
10:40 400 . Modular Bimetallic Main Group Catalysts for Cooperative Polymerization of Lactones. **R. Comito**, M. Tansky, Z. Gu
11:00 401 . Enhancing Catalytic Activity at Chalcogen Centers Through the Coordination of π-acidic Carbene Ligands. **T. Hudnall**, M. Gildner, A. Saucedo
11:20 402 . Tellurorhodamines as Photocatalysts for Aerobic Oxidation. **T. McCormick**, I. Rettig, L. Lutkus
11:40 403 . Interactions of Organosuperbases with $E(C_6F_5)_3$ (E = Sb, Bi) and Hydrocarbons - Base Catalyzed Formation of Organo Antimony and Bismuth Compounds. **J.J. Culvyhouse**
Zlotnik Ballroom 4 5 6
Analytical
Graduate and Professional Posters
9:00 - 11:00
404 . Correlating Non-Newtonian Fluid Rheology With Its Capability in Suspending High Solid Load Under Dynamic Conditions. **F. Chang**, N. Mai, K. Alsinan, B. Cooper
405 . Quantification of alcohols in hand sanitzers using headspace GC-MS. A. Harmon, **J. Theruvathu**
406 . Age-dependent lipid disorders in Alzheimer’s Disease Revealed by mass Spectrometry Imaging. **D. Freitas**, B. Aridjis-Olivos, X. Yan
407 . Matrix-specific Tin Contamination of ICP-MS from Analysis of an Organotin Compound. **M. Theriot**, S. Lehn
408 . Characterization of Glycerophospholipid Isomers at Multiple Isomer Levels via Mn(II)-catalyzed Epoxidation. **X. Chen**
409 . Using Artificial Intelligence Methods to Identify the Unknown Chemical Compounds from their IR Spectra.. **D. Yang**, J.A. Darsey
Zlotnik Ballroom 4 5 6
Biochemistry
Graduate and Professional Posters
9:00 - 11:00
410 . Further Analysis of the Rapid Wort Color Method for Malts. **N.O. Flynn**
411 . CBD = Cannabinoid Biotransformation Discoveries: Understanding Cannabinoids Biotransformation using *in vitro* Metabolism Technologies (OECD TG 319B). **K. Johanning**, R. Lavado, G. Garcia, S. Dhavala, Z. Winfield, M. Franco
412 . Copper Trafficking from Cytosol to Mitochondria in *Saccharomyces Cerevisiae*. **J. Kim**, P. Lindahl
413 . Characterization of Labile Metal Pools in the cytosol of *Saccharomyces cerevisiae*. G. Delanoy, **A. Kreinbrink**
414 . Passivation of Gold Nanoparticles with Hyaluronate-thiol Enhances Peritumoral Distribution. **R. Terracciano**, A. Zhang, E. Butler, D. Demarchi, J.H. Hafner, A. Grattoni, C. Filgueira

415 . Single-molecule Fluorescence Anisotropy: an Intracellular Quantitative Method to Probe Protein Oligomeric Stoichiometry. **H. Chen**, T. Chen

416 . Cu-dependent Intracellular Redox Behaviors. **Y. Zhang**, T. Chen

417 . Identification of Peptidomimetic Inhibitors for Histone Lysine Methyltransferase SMYD3 and Their Optimization with Solution State Structural Methods. **N. Igie**, R.J. Fick, A. Stelling

418 . Probing the Enthalpies of Individual Hydrogen bonds in DNA Duplexes with Isotope Edited Infrared Spectroscopy. **H. Peng**, A. Stelling

419 . Identification and Structural Analysis of Highly-Selective Potential NSD1 Lysine-methyltransferase Inhibitors. **I.O. ODEYEMI**, R.J. Fick, A. Stelling

420 . *E. coli* Polymerase III Core and the Clamp-Loader Complex interact at specific sites to maintain replisome coordination. **L. Butterworth**, M.U. Welikala, H.M. Perera, M.A. Trakselis

421 . PA0962 a novel *P. aeruginosa* Protein Featuring a Dps Structure and a Unique Function. **N. Rajapaksha**, S. Lovell, M.E. Rivera-Laos

422 . Antimicrobial Synergy of Conventional Antibiotics and Antimicrobial Peptides. **B.M. Almarwani**, A. Sunda-Meya, N. Phambu

423 . Computational Analysis of Effect of Selective Alanine Mutations on Stability of Human Prion Protein. **K. Lee**, K. Kuczera

424 . Stable G-triplex DNA within the Promoter Region of the c-MYC Proto- oncogene. **M.W. Myhre**, J.L. Garza, W.M. David, **S.M. Kerwin**

Zlotnik Ballroom 4 5 6

Inorganic

Graduate and Professional Posters

9:00 - 11:00

425 . Anionic supramolecular metallocages as suitable hosts for electroactive Molecular Probes: Measuring Electrochemical Stability Potential Windows. **R. Bujol**, N. Elgrishi

426 . Synthesis of Boron and Antimony Diiminopyridine Complexes. **J.R. Tidwell**, C. Martin

427 . Metal-Mediated Oxidative Coupling of Ortho-substituted 3,3'- Diaminobenzidine and Applications in the Preparation of new Salophen Ligands for Uranyl (UO_2^{2+}). **D. Gardner**, J.A. Williamson, A.E. Gorden

428 . Carboxylate-rich copper(II) and Zinc(II) Complexes as Phosphoesterase Mimics in Aqueous Media. **W. Foley**, H. Arman, G.T. Musie

429 . Asymmetric and Chiral Properties on *Strandberg* type-Polyoxometalates (POMs): Synthesis, Characterization, and Electronic Structure Calculation.. **H. Chang**, D. Dacus

430 . Understanding the Mechanism of Electrocatalytic O_2 and CO_2 Reduction on M- N-C catalysts: Theoretical Modelling of Active Sites. **B. Zhang**

431 . Mechanistic Insights into Electrocatalytic Oxidation of Benzyl Alcohol using a Nickel Phosphine Catalyst Containing a Pendant Amine. **Y. Tong**

432 . Properties of Ruthenium (II) Complexes Bearing Fused Thieno[3,4-*f*][1,10]Penanthroline Ligands. **A.C. Hachey**, R. Mitchell, R. Ryan, J.N. Laisney, P.C. Glazer

433 . A Polypyridyl Ruthenium-Based Phenanthriplatin Mimic. **R. Mitchell**, S.M. Kriger, A. Fenton, D. Havrylyuk, A. Pandeya, D.K. Heidary, P.C. Glazer

434 . Minor Substitutions to Fluorescent Probe Scaffold affect Binding Affinity and Observed Fluorescence turn-on for three Metallo-beta-lactamases. **S. Price**, R. Mehta, T. Cummings, E.L. Que

435 . Anion Replacement in Mixed-Anion Solids with Complete Preservation of Crystal Structure. **M. Udayakantha**, J. Handy, R.D. Davidson, J. Kaur, G. Villalpando, L. Zuin, S. Chakraborty, S. Banerjee

436 . A Sulfone Calixarene-based Metal-organic Framework for Efficient Dye Encapsulation. **Z. Xiao**, H. Lin, H. Zhou

437 . Isomerization of the Mn_2S_2 Diamond Core Complexes Assembled by Mercaptoacetamide Type Ligands: A Mechanistic Study.. **T. Le**, M.Y. Darensbourg

438 . "Research for the Classroom" Discovery Labs 2021: Can You "Alchemize" Gold via Copper in Tetranuclear Dithiophosphinate-Diphosphine Complexes as Potential (O)LED and/or Thermochromic-Sensing Materials. **A. Myers**, **K. Bodenstedt**, **J. Fripp**, S. Strickland, G. Kejriwal, Z. McIntosh, V. Turner, D. broski, A. Moore, C. Youman, K. Yokum, B. Martin, R. Freemon, A. Hocking, s. li, M.A. Omary

439 . "Research for the Classroom" Discovery Labs 2021: You Get What You Pay for via Dinuclear Gold(I) Dithiophosphinate-Diphosphine Complexes as Potential (O)LED Materials. **K. Martin**, **J. Fripp**, **K. Bodenstedt**, H. LaVoie, A. Johnson, P. Gosai, K. Cass, K. Pruitt, S. Brady, C. Chang, R. McCrary, s. li, M.A. Omary

440 . Synthesis of a Novel Gallium(III) Complex and Spectroscopic Investigation of its Interaction with Naturally Abundant Sugars. **A. Guerrero**

441 . Influencing Factors for Thermal Decarboxylation in Redox-Active Metal- Organic Frameworks. **H.F. Drake**, Z. Xiao, G.S. Day, M.R. Ryder, H. Zhou

Zlotnik Ballroom 4 5 6

Materials

Graduate and Professional Posters

9:00 - 11:00

442 . Direct Functionalization of Carbon Materials for the Enhancement of

Mechanical Properties in Epoxy. **M. Wunch**, S. Mahmood, S. Lee, D. Yang

443 . Unraveling the Potassium-Oxalate Activation Mechanisms of Nitrogen Rich Porous Carbons. **J.E. Eichler**, J.N. Burrow, Y. Wang, D.C. Calabro, C.B. Mullins

444 . In Situ protective Layer for a Stable Solid Electrolyte Interphase in Lithium Metal Anode Batteries. **A.G. Paul-Orecchio**, J.A. Weeks, R. Reddy, S.N. Lauro, H. Sun, C.B. Mullins

445 . Metal Chelated Synthesis of N,P-doped carbon for Sodium-ion Battery Anodes. **S.N. Lauro**, J. Burrow, J.A. Weeks, A.G. Paul-Orecchio, C.B. Mullins

446 . Flow Cell-Assisted Electrodeposition of Ni-S-P-O Films on Nickel Foam for Electrochemical Water Splitting. **R.A. Marquez-Montes**, K. Kawashima, Y. Son, J.A. Weeks, H. Sun, H. Celio, V.H. Ramos-Sanchez, C.B. Mullins

447 . Conducting Polymer Coatings on Electrospun Polyacrylonitrile and Polycaprolactone. **M. Acosta**, M.D. Santiago, A.C. Towne, A. Martinez, J.A. Irvin

448 . Polypyrrole-Polycaprolactone-Magnetic Nanoparticle Nanofiber Composites for Nerve Regeneration. **M.D. Santiago**, A.C. Towne, N. Muzzio, G. Romero, J.A. Irvin

449 . Mechanochemical Synthesis of An Ethylene Sieve UTSA-280 in Green Route. **Y. Shi**

450 . Tuning the Work Function of Graphene Electrodes through Chemical Doping. **C.M. McCulley**, X. Wang, A. Dodabalapur

451 . Isoreticular Microporous Metal−Organic Frameworks for Carbon Dioxide Capture Optimization. **h. cui**, B. Chen

452 . Gd-Based Germanides: A Synthetic and Structural Analysis. **M. Bravo**, G.T. McCandless, J. Chan

453 . Structural Stability of Ge-based Remeika Phases. **A. Dominguez**, J. Chan **454 .** Praseodymium Problems: Polymorphism and Properties of $Pr_2Co_3Ge_5$. **T.M.**

Kyrk, D. Young, G.T. McCandless, J. Chan

455 . Unusual Morphological Transformation of a Vanadium Carbide Precatalyst for Alkaline Oxygen Evolution Reaction. **K. Kawashima**, C.L. Cao, H. Li, R.A. Marquez-Montes, B.R. Wygant, Y. Son, J.V. Guerrera, G.A. Henkelman, C.B. Mullins

Zlotnik Ballroom 4 5 6

Organic

Graduate and Professional Posters 9:00 - 11:00

456 . High Viscosity Salt Tolerant Friction Reducer For Slickwater Fracturing. **R. Saini**, W. Li

457 . Accessing *N*-oxy-2,5-diketopiperazine-containing Natural Products: Efforts Toward the Total Syntheses of (+)-Raistrickindole A and (-)-Haenamindole. **T. Hwang**, **A.C. Jackson**, J.L. Wood

458 . Triphosgene Mediated Organic Synthetic Transformations. **M. Ganiu**, A.H. Cleveland, I.C. Dos Reis, J.L. Paul, R. Kartika

459 . Fluourecense turn-on probe for detecting nitric oxide in aqueous solution. **T. Vuong**

460 . Ring-Opening Fluorination of Strained Alcohols: Development of more Efficient and Sustainable Approaches using Earth-abundant Metals. **Y. Lu**, H.M. Jordan, J.G. West

461 . Mn-Catalyzed Photochemical Chloro-, Azido-Alkylation of Unactivated Alkenes Through ATRA-Diverting Radical Relay. **K. Bian**, D. Nemoto, Y. He, X. Wang, J.G. West

462 . Synthesis and Functionalization of β, β'-π-extended Platinum(ll) Porphyrins. **T. Han**, A. Moss, H. Wang

463 . Palladium Catalyzed Functionalization of Olefins. **S. Bhatt**, Y. Wang, K. Hull **464 .** Asymmetric O-H insertion of Diazo compounds via Brønsted acid catalysis. **Z.**

Tang, R. Comito

465 . Brønsted Acid-Catalyzed Syntheses of Highly Functionalized Tetrahydrobenzofurans, Tetrahydroindoles and Tetrahydrocyclopenta[b]pyrroles via Silyloxyallyl Cations. **F. Badmus**, J. Malone, F.R. Fronczek, R. Kartika

466 . Protein Kinase C Epsilon (PKCε) Inhibitors for Non-Opioid Pain Management. **H.C. de Kraker**, S.F. McHardy, H. Wang, R. Messing, C. Fleischer, J. Levine, M. Hart, G. Li

Zlotnik Ballroom 4 5 6

Physical

Graduate and Professional Posters

K. A. Lewis, *Organizer* **9:00 - 11:00**

467 . Optimizing Stereoselective Metal-Free Ring-Opening Metathesis Polymerization for Norbornene-Based Monomers using Quantum Chemical Calculations. **H. Easley**, **O. Herrera**, A. Foret, A.G. Roessler, X. Yang, S. Gitter, V. Rigoglioso, A.J. Boydston

468 . The Effect of the Inverse-headgroup Lipid on the Interfacial water Revealed by Experimental and Computational Studies.. **E. Lee**, X. You, C. Baiz

469 . Ligand aggregation on PbS nanocrystal surfaces impacts nanocrystal-to-ligand electron transfer rates. **D. Cadena**, C. Wight, E. Raulerson, D. Cotton, S.T. Roberts

470 . How Intramolecular Structure Impacts the Spatial Separation of Triplet Pairs Produced by Singlet Fission. **B. Li**, D. Cotton, C. Wight, S.T. Roberts

471 . Active Tuning of Plasmon Damping through Light Ellipticity. O. Cheng, **B. Zhao**, Z. Brawley, D. Son, M.T. Sheldon

472 . Teaching an old model new tricks: using a Holstein small-polaron model to interpret complex optical phenomena in organic chromophores.. **D. Cotton**, P. Cline, B. Pollok, B. Li, A. Staat, C. Wight, M.J. Rose, J. Eaves, S.T. Roberts

473 . Plasmonic Substrates for Modified Reaction Chemistry via Vibrational Strong Coupling. **Z. Brawley**, J. Yim, M.T. Sheldon

474 . Computational Investigations of the Structure and ion Transport in Model Block Copolymer Electrolytes as a Function of Side Chain Chemistry. **D.I. Senadheera**, M.V. Ramos-Garcés, C.G. Arges, R. Kumar

475 . Covalent Tethering of Singlet Fission Molecules to Si(111) for Organic-to- inorganic Energy Transfer. **B. Pollok**, C. Hallock, J. Strain, K. Heupel, D. Boucher, M.J. Rose, S.T. Roberts

476 . Computational Investigations of Aqueous Solutions of Single Chain Sequence Defined Ionic Peptoid Block Co-polymers. **H. Gallage Dona**, X. Zhang, R. Kumar

477 . Probing Interband and Intraband Excited Hot Electrons under Steady State Conditions. **A. Lee**, N. Hogan, M.T. Sheldon

TUESDAY AFTERNOON

Classroom 104

Biohybrid Macromolecular Systems and Supramolecular Assemblies

C. E. Callmann, *Presiding* **1:00** Introductory Remarks.

1:05 478 . DNA Continues to Inspire Macromolecular Design: From Thermoplastic Elastomers to Melt Extrusion 3D Printing. **T.E. Long**, B. Liu, X. Chen, K. Zhang, C.E. Zawaski, G. Spiering, R.B. Moore, C.B. Williams

1:55 479 . Stereochemical Control Yields Mucin Mimetic Polymers. **S. Brucks**, A. Kruger, T. Yan, G. Cárcarmo-Oyarce, Y. Wei, D. Wen, D.R. Carvalho, M.J. Hore, K. Ribbeck, R.R. Schrock, L.L. Kiessling

2:20 480 . Design and Synthesis of Polymer-Based Cryoprotectants for Frozen Storage of Mammalian Cells. **N.A. Lynd**

2:45 Intermission.

3:35 481 . Expanding Hydrogel Functionality with Sequence Defined Peptoids for Artificial Extracellular Matrices. **A. Rosales**

4:00 482 . 3D Printing Soft Stuff with ‘Soft’ Stimuli. **Z.A. Page**

4:25 483 . Controlling Material Properties through Extracellular Electron Transfer. **B. Keitz**

4:50 Concluding Remarks.

Classroom 105

Bioinorganic Chemistry

E. L. Que, *Presiding*

1:00 484 . Making Gadolinium Great again! Will Biologically Responsive MR Agents Make it to the Clinic?. **A. Sherry**

1:30 485 . Do mitochondria export a low-molecular-mass iron species associated with iron-sulfur cluster activity?. **R. Shepherd**, S. Vali, P.A. Lindahl

1:50 486 . Metal Complexes as Versatile Tools to Study Amyloid Self-Assembly and Modulation. A.A. Marti-Arbona

2:20 487 . Redox-Active Iron-Doped Perfluorocarbon Nanoemulsions for Detection of Reactive Oxygen species via ^{19}F Magnetic Resonance Imaging. **T. King**, D. Grimes, O. Esarte, D. Cooke, E.L. Que

2:40 488 . Cofactor-based fluorescent proteins as platforms for new metal ion sensors. **M.L. Zastrow**

3:10 Intermission.

3:20 489 . Dissecting the Transport Mechanism of Transmembrane Cu(I) P-type ATPase pumps. N. Abeyrathna, S. Abeyrathna, T. Morgan, C.J. Fahrni, **G. Meloni 3:50 490 .** Dual Nanoparticle Conjugate Probe for Highly Sensitive Detection of Thrombin by ^{19}F MRI. **D. Cooke**, E.L. Que

4:10 491 . Chemical and Structural Investigation on Vinyl Isonitrile Pathway. **W. Kim**, T. Chen, W. Chang, Y. Zhang

4:30 492 . Redox-active Gold Carbene as Immunogenic Cell Death Inducers. **J.L. Sessler**

Classroom 101

Main Group Chemistry in the Southwest Main Group Metals in the Southwest

T. Hudnall, *Presiding*

1:00 493 . Hypercoordinated Group 14 Systems: Synthesis, Structures and Biological utility. **K.H. Pannell**

1:20 494 . Synthesis of Novel Heterocyclic Compounds Containing Tellurium and Nitrogen. D.N. Alexis, A. Lee, F.R. Fronczek, **T. Junk**

1:40 495 . Reactivity of Highly Fluorinated Trityl Salts of $HCB_{11}Cl_{11}^{1-}$. **O. Gunther**, O. Ozerov

2:00 496 . Constraining “Inorganic Allenes”: Synthesis and Coordination Chemistry of Cyclic Diborylamides. **B.M. Lindley**, W.K. Brown

2:20 Poster Session and Coffee Break.

3:20 497 . Expanding Novel Reaction Pathways in *gem*-diborylalkanes. **L. Taylor**, D. Cardus, T. Hudnall

3:40 498 . Synthesis and Reactivity of Elusive Phosphatetrahedranes. **M.Y. Riu**, C.C. Cummins
4:00 499 . Taming Phosphorus Mononitride (PN). **A.K. Eckhardt**, M.Y. Riu, M. Ye, P. Mueller, C.C. Cummins
Classroom 108
MOF Chemistry in the Southwest
S. M. Humphrey, *Organizer, Presiding*
1:00 500 . High-valent Iron Species in Metal-Organic Framework-Mediated Advanced Oxidation Processes for Pollutant Remediation. **V.K. Sharma**, X. Ma, M.F. Smith, Y. Wen, H. Zhou
1:25 501 . Metal organic frameworks (MOFs) as novel photocatalysts for contaminant removal in water: Advances and challenges. **X. Ma**, Y. Wen, V.K. Sharma, H. Zhou
1:50 502 . Metal-Organic Frameworks for the Removal of Volatile Organic Compounds in Oil and Gas Applications. **G.S. Day**, C. Ybanez, K. Dickerson, R. Ozdemir
2:10 503 . Phopshine MOFs for the Heterogenization of 4*d* and 5*d* Metal Complexes. **S. White**, S.M. Humphrey
2:30 Intermission.
3:05 504 . Indium-Organic Framework with *soc* Topology as a Versatile Catalyst for Highly Efficient One-Pot Strecker Synthesis of α-aminonitriles. **G. Verma**, K. Forrest, B. Carr, H. Vardhan, J. Ren, T. Pham, B. Space, S. Kumar, S. Ma
3:25 505 . Linker Fragmentation: Another Tool to Control MOFs' Structural Diversity. **P. Cai**, H. Zhou
3:50 506 . Thermal Expansion Studies of Coordination Complexes Containing Silver Trifluoromethanesulfonate and Ligands with Motion-capable Groups. **N. Juneja**, D. Unruh, R.H. Groeneman, K.M. Hutchins
4:10 507 . Morphology Transcription: Customizing Predesigned MOF-Polymer Composites. **K. Wang**, H. Zhou
4:30 508 . Porous Coordination Cages Based Stimuli-Responsive Nanocarriers for Controlled Drug Release. **T. Yan**, M. Yuan, X. Feng, J. Chen, Y. Wang, H. Zhou
4:50 Concluding Remarks.
Classroom 116
Organic
A. A. Thomas, *Presiding*
1:00 509 . Asymmetric Synthesis of Chromanes Through Cooperative Enamine-Lewis Acid Catalysis. **J. Davis**, C.V. Karunaratne
1:20 510 . Minimizing Chemical Waste in Organocatalytic Reactions. **S. Thavornpradit**, J.M. Killough, W. Dow, D. Bergbreiter
1:40 511 . Rapid, Single-Step Aminofunctionalization of π-systems using Transition Metal Catalysis. **B. Gay**
2:00 512 . Mechanistic Studies on the Hydroboration of Internal Alkynes with Iron Pincer Complexes. **A.L. Narro**, Z.J. Tonzetich
2:20 513 . "Benchtop" synthesis of conjugated polymers via Pd/Cu co-catalysis. **f.F. pary**
2:40 Intermission.
3:20 514 . DFT Investigation of *para*-substitution Effects on the C—CN Bond Activation of Benzonitrile by a Zerovalent Nickel Complex. **J. Rodriguez**, J. Rodriguez, A.C. Atesin, W.D. Jones, T. Atesin
3:40 515 . Alkenyl sulfamates and *β*-ketosulfonamides via SuFEx Click Chemistry and Photomediated 1,3-rearrangement. **K. Doktor**, F. Sousa e Silva, Q. Michaudel
4:00 516 . Direct conversion of primary alcohols or aldehyes to ketones via merged transfer hydrogenative carbonyl addition-redox isomerization catalyzed by rhodium. **B. Spinello**, M.J. Krische
4:20 517 . Copper-Catalyzed Difunctionalization of 1,3-Diene. **V.E. Viviani**
4:40 518 . Synthesis of *bis*(pyrazolyl)alkane Ligands and their Cationic Dinuclear Zinc Complexes for Lactide and Lactone Polymerization. **Z. Gu**, M. Tansky, R. Comito
Classroom 115
The Entrepreneurs' Tool-Kit
Cosponsored by SCHB
J. L. Maclachlan, *Presiding*
1:00 519 . If This, Then That: Decisions that Loom Over Entrepreneurs - and How to Make Them. **D.L. Merkle**
1:30 520 . Connecting Small Chemical Businesses and Entrepreneurs During the Time of Pandemic and Beyond. **J.L. Maclachlan**
2:00 511. Withdrawn
2:30 Poster Session and Coffee Break.
3:30 521 . Getting Started at Social Media Marketing for your Small Chemical Business. **J.L. Maclachlan**

4:00 522 . Do Trademarks fit into my Business Plan? Nuts and Bolts of Trademark Selection and Pitfalls to Avoid. **K.B. Drake**
4:30 523 . Content Development for Social Media Marketing for your Small Chemical Business. **J.L. Maclachlan**
Classroom 106
Uncovering Chemical Structure & Dynamics with Light Probing Biological Systems with Analytical Spectroscopies
C. Grieco, *Presiding*
1:00 524 . Tracking Single Antibody Interactions with an Ion-exchange Stationary Phase. **C.F. Landes**
1:30 525 . Time-resolved second harmonic generation spectroscopy and microscopy studies of molecular adsorption and transport at liposome interfaces and cell membrane surfaces. **L.H. Haber**, A.S. Dikkumbura, R.O. Ali, P. Hamal
2:00 526 . Lighting the way Towards Structure-function Relationships in Disordered Carbonaceous Systems. **C. Grieco**
2:30 Poster Session and Coffee Break.
3:30 527 . Mid-infrared Spectroscopy for Medical and Industrial Applications – Monitoring of Brain Chemistry, Bioprocess and Volatile Organics. **T. Hutter**
4:00 528 . Effect of the Surface Roughness on Protein Transport at a Self-assembled Monolayer Reversed-Phase Chromatographic Interface. **A. Misiura**, C. Dutta, W. Leung, C.F. Landes
Classroom 107
Advances in Transition Metal Catalysis for Organic Synthesis
Cosponsored by ORGN S. Malcolmson, *Presiding*
1:20 529 . C-H and C-O Functionalization via Radical Chaperones. **D. Nagib 1:45** Introductory Remarks.
1:50 530 . Enantioselective Heterodimerization, Hydrofunctionalization and Cycloaddition Reactions of Alkenes. **T.V. Rajanbabu**
2:30 Poster Session and Coffee Break. **3:15** Introductory Remarks.
3:20 531 . From Plavix to Veklury, using OChem I and II Knowledge to Develop Novel synthetic Accesses to High-profile Medicines. **Y. Zhu**
3:45 532 . Success Stories from the Women of Merck Small Molecule Process Research and Development. **J. McCabe Dunn**
4:10 533 . Metallacyclic Intermediates and Nontraditional Mechanisms in Mo(VI)- and W(VI)-Catalyzed Alkyne Metathesis. **S. Lee**, M.E. Rotella, O. Gutierrez, R.R. Thompson
4:35 534 . Charge-Transfer Complexes as Catalytic Intermediates in Photoredox Transformations. **S.P. Pitre**
Zlotnik Ballroom 4 5 6
Analytical
Graduate and Professional Posters
2:00 – 4:00
535 . A Pharmacokinetic Study of Thyroid Hormones and Metabolites in Female Mice. **Y. Carcamo**, J. Ma, D. Liang, C. Filgueira
536 . In-situ Quantitative Study of the Phase Transition in Surfactant Adsorption Layers at the Silica-Water Interface using Total Internal Reflection Raman Spectroscopy. **t. ly**
537 . Electrochemical Impedance Spectroscopy Analysis of Si(111) Functionalized with Anthracene Derivatives. **C.D. Hallock**
538 . Metal and Glyphosate Co-exposure effects on SH-SY5Y Neuronal cells. **C. Collom**, S.H. Pradhan, C. Sayes
539 . Modeling Bifunctional Routes to Alkane Activation with Various Metal Complexes. **M. Marks**, T.R. Cundari, M.E. Anderson
540 . Evaluation of Molecular Rotational Resonance Technique for Fast Monitoring Sulfur Dioxide in Ambient Air. **M. Jamil**, G. Twing, S. Wei, S. Twagirayezu
Zlotnik Ballroom 4 5 6
Biochemistry
Graduate and Professional Posters
2:00 - 4:00
541 . Computational Study to Understand the Role of the Conserved Residue, Trp24, of Human Serum Retinol Binding Protein. **K. Lee**, K. Kuczera
542 . Regulation of Aspartate Transcarbamoylase activity in *Pseudomonas chlororaphis* by Ribonucleotides. A. Bani Ahmad, **T.P. West**
543 . Analysis of Green Fluorescent Protein using Polarized Resonance Synchronous Spectroscopy. **K.R. Carter**, S. Stokes, D. Zhang, J. Emerson
544 . Characterization of a Heme Utilization Protein HupZ from *S. pyogenes*. **E. Traore**, J. Li, A. Liu
545 . Molecular Modeling of Binding Energy Between Xanthine Oxidase and Inhibitor FYX051 Derivatives. S. Kevasan, C. Xu, **C. Dong**
546 . Application of CRISPR-Cas9 in Engineering Human Stem Cells for Investigating Molecular Behaviors of Copper Transporter CTR1 through Imaging-based Approaches. **Y. Chen**, M. Wen, P. Huang, T. Chen

547 . Deviation from TDO superfamily: Monooxygenation of β-methyltryptophan by the Enzyme MarE. **S.R. Montoya**, I. Shin, A. Liu

548 . Probing Galactose Oxidase Stabilizes a Copper-Bound Ligand Radical for Catalysis. **J. Li**, W. Griffith, I. Davis, A. Liu

549 . Probing Met-Tyr-Trp Crosslink in KatG Enzyme using Unnatural Amino Acid. **R. Duan**, J. Li, D.C. Goodwin, R. Thyer, A. Green, A. Liu

550 . Detection of Hydrogen Bonding Status and Conformation of S-adenosyl-L- methionine (SAM) in the Active Site of SET Domain-Containing Protein Lysine Methyltransferase 7, SET 7/9, Using vibrational spectroscopy and molecular simulations. **T. Douglas**, A. Stelling, R.J. Fick

551 . Chromatographic Characterization of Non-Transferrin-Bound-Iron (NTBI) and its Effects on Mouse Organs using Mössbauer Spectroscopy. **S. Vali**, S. Fernandez, P. Lindahl

552 . Characterization of H-NOX from *Caulobacter crescentus*. **C.C. Lee-Lopez**, E. Yukl

553 . Early Insights into the Biosynthesis of Ladderane Lipids. **J. Franklin**, H. Liu, R. Russo, K. Choi

554 . Mechanistic Analyses of Diluent and Terpene Exposures on Human Lung Cells. **Y.M. Baldovinos**, C. Sayes

Zlotnik Ballroom 4 5 6

Inorganic

Graduate and Professional Posters

2:00 - 4:00

555 . Pyrrole-based boryl pincer complexes: Synthesis and reactivity. **S. Lee**, N. Bhuvanesh, J. Zhou, O. Ozerov

556 . Effect of Flexibility on the Rate of Ligand Exchange Reactions: Flexible thianthrene versus rigid anthracene scaffolds. **j. labrecque**

557 . Reactivity of PAlP Complexes. **V.T. Nguyen**, Q. Lai, O. Ozerov

558 . Combining Metallodithiolates and Nickel-dithiolene Complexes to Synthesize Novel [NiFe]-Hydrogenase Active Site Models. **M. Quiroz**, M.Y. Darensbourg

559 . Synthesis of Tetrakis Lanthanide Betadiketonate Complexes for the study of Magnetic Materials. **S.Y. Chappidi**, J. Huang, K.R. Dunbar, E.M. Fatila

560 . Palladium Catalyzed Hydroarylation of Alkynes - Reaction parameters Revisited. **L. Garcia**, V.N. Rodriguez, **N.T. Nguyen**, C. Hahn

561 . Metallo-Flavonolates and Heterosubstituted-flavonols: Probing the Mechanism of Quercetin Dioxygenases (QDOs) by Comparing 1,2 and 1,3 Additions in Dioxygenation and Nitroxygenation. **L.D. Rymbai**, P.J. Farmer

562 . Controlled thiolate and multipodal phosphine insertion onto neutral, electron- deficient iron carbonyl carbide clusters. **C. Cobb**, K.K. Ngo, M.J. Rose

563 . Design and Catalytic Activity of a Dual-site Metal-Organic Frameworks from Pyridine Porphyrin. **Y. Yang**

564 . Strong Heteroatomic Metal–Metal Coordinate-Covalent Bonding and Charge- Transfer Interactions Between Two Cyclic Trinuclear Coinage-Metal Complexes. **Z. Lu**, L. Luciani, V. Nesterov, R. Galassi, M.A. Omary

565 . DFT Study on the Catalytic Mechanism of Dinitrogen Reduction by a Borylene Complex. **S. Yu**

566 . Luminescent Metal Inorganic Framework Sensors: *Chemo*- and *Baro*-sensing. **J. Fripp**

567 . Redox-sensitive 19F MRI Imaging Agents Based on Cobalt Scaffolds. **K. Scott**, R.T. Kadakia, E.L. Que

568 . Synthesis and Characterization of Nickel Metallodithiolate Complexes Featuring Secondary Sphere Pendant Amines. **K.T. Burns**, T. Le, M.Y. Darensbourg

569 . Synthesis of Naphthalenediimide Derivatives for Triplet Generation and Harvesting through Si(111). **K. Heupel**, M.J. Rose

570 . Selectivity in the Sequestration of the Pollutants Perfluorooctane Sulfonate (PFOS) and Perfluorooctanoic Acid (PFOA) in Water by Self-Assembled metallo- cages. **M. Das Bairagya**, N. Elgrishi

571 . Synthesis and Characterization of Paramagnetic Metallodithiolates Bridged by Pd(II): Investigation of Long-range Metal-metal Interactions. **Z. Martinez**, M. Quiroz, C. Garcia, N. Bhuvanesh, M.Y. Darensbourg

572 . Synthesis of Multiple Polymorphs of Cu(I)-Quinoxaline Coordination Complexes via Alteration of Synthetic Routes. **H. Kouadio**, R. Jawaid, E. Diaz, A. Olivares, B. Hitt, V. Nesterov, M. Rawashdeh-Omary, K.A. Reyes

Zlotnik Ballroom 4 5 6

Materials

Graduate and Professional Posters

2:00 - 4:00

573 . Soil-based Sustainable Materials for Additive Manufacturing of Buildings. **A. Bajpayee**, U. Zakira, M. FarahBakhsh, L. Abu Ennab, B. Birgisson, S. Banerjee

574 . Electrostatically Driven Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Material. **Y. Xie**, B. Chen

575 . Gradual emergence of crystalline species in multimetallic MOF-derived carbons. **J.A. Powell**, A.V. Mott, H. Zhou

576 . Effects of electrochemical conditioning on nickel-based oxygen evolution electrocatalysts. **Y. Son**, S. Kim, V. Leung, R.A. Marquez-Montes, K. Kawashima, L.A. Smith, O. Carrasco-Jaim, C.B. Mullins

577 . Single Crystal Growth of Sm-Based Cobalt Germanides: $BaAl_4$ Derivative Structures. **K. Thanabalasingam**, G.T. McCandless, J. Chan
578 . Molecular Dynamics Simulation of the Transformation from Willemite-II to Spinel Structure Types of Si_3N_4. **m. falgoust**
579 . Advantages and Challenges for MOFs using Texas-sized Extended Poly- carboxylate Linkers. **S. Islam**, R. Yasmeen, M.A. Omary
580 . Further Advancements in Dopant-free Organic Light-emitting Diodes (DFW- OLEDs). **S. Li**, Z. Lu, I. Oswald, Q. Wang, A. Rawasheh, M. Omary
581 . Dielectric Effects Dictate the Mission Anisotropy in Colloidal $CsPbBr_3$ Nanorods. **F.A. Rodriguez Ortiz**, J. Wen, M. Sheldon
582 . Controlled Synthesis of Sub-five-nanometer Diamond Particles. **T. Lyu**, **H. Yan**
583 . Search for Synthetic Conditions and Superconductivity in T′-type Ni^{+1}/Ni^{+2} nickelates $Ln_5Ni_4O_{10}$ and $Ln_6Ni_5O_{12}$ (*Ln* = La, Nd). **R. Bhuvan**, **K. Dilley**, V. Poltavets
584 . Post-Synthetic Etching of Commercial T-125 Improves PFAS Adsorption. **R. Nargund**, K. Heck, A. Boehme, G. Day, R. Ozdemir, M.S. Wong
585 . The Syntheitic Journey to Tb Analogues in the $A_{n+1}M_nX_{3n+1}$ Homologous Series.. **M.R. Brown**, J. Chan, K. Thanabalasingam
586 . Accessing nitrogen containing polymers via a versatile ring-opening metathesis polymerization. **N. Yuntawattana**, S. Hancock, Q. Michaudel
Zlotnik Ballroom 4 5 6
Organic
Graduate and Professional Posters
2:00 - 4:00
587 . Photoresponsive Analogues of Combretastatin A-4: Synthesis, Photophysical, and Cell Viability Properties. **S.K. Rastogi**
588 . Cephalosporin Sulfones with Activity Against Both Replicating and Dormant Mycobacterium Tuberculosis. M. Alqurafi, R. Gupta, R. Scherer, R. Malhotra, A. Damarla, N. Al-Kharji, P. Quan, B. Simcox, P. Mortimer, L.A. Basta, K. Rohde, **J.D. Buynak**
589 . Controlling Thermal Expansion Properties of Organic Solids via Cycloaddition Reactions. **G.C. George**, D. Unruh, K.M. Hutchins
590 . Accessing Alkenyl Sulfamates and β-ketosulfonamides via dual Sulfur-fluoride Exchange (SuFEx) and 1,3-photorearrangement. **F. Sousa e Silva**, K. Doktor, Q. Michaudel
591 . Evaluating Safety and Sustainability of In-situ Acrolein production through DoznTM Tool. **S.H. Mambiri**, **A. Al Saif**, **S. Ambatipati**
592 . Synthesis of Geminal *bis*-aryl Quaternary Centers at the α-position of Cyclic Five-Membered Enol Ethers using an Alkynyl Moiety as a Regiodirecting Group. **B. Nepal**, T.D. Curry, R. Kartika
580. Withdrawn
593 . Visible Light-Induced Palladium-Catalyzed Carbofunctionalization of Conjugated Dienes. **P. Cheung**, D. Kurandina, T. Yata, V. Gevorgyan
594 . Exploring the Optical Heating Properties and Radiopacity of Near-Infrared Sensitive gold Nanoshells. **A.R. Royal**, R. Terracciano, C.S. Filgueira
595 . Synthesis and Characterization of Pyridinophane- and Pincer-Based Monomers for Polymer Formation. **C. Miller**, K.N. Green
596 . Visible Light-Induced Brønsted Acid-Assisted Alkyl Heck Reaction of Diazo Compounds and *N*-Tosylhydrazones. **Z. Zhang**, N. Kvasovs, A. Dubrovina, V. Gevorgyan
Zlotnik Ballroom 4 5 6
Physical
Graduate and Professional Posters
2:00 - 4:00
597 . Improving the Performance of Functional Interfaces for Biomedical Devices: Influence of Deposition Conditions, Surface Organization, and Solvent Conditions. **R.S. Thompson**, V. Do, A. Mefful, A. Schimpf, J.L. Godino, J. Casasent
598 . Understanding the Relationship Between protein Sequence and local Environments in Membranes. **Z. Al-Mualem**, C. Baiz
599 . Water Dynamics of Polyacrylamide in Confined Micellular Spaces. **P. Garrett**, C.P. Baryiames
600 . Immunomodulatory Surface Approach for Titanium Implants. **D.T. Ranathunga**, A. Arteaga, C. Biguetti, D. Rodrigues, S.O. Nielsen
601 . Unraveling the Surface Interactions of THF and Water Solutions. **T. Sivells**, J.D. Cyran
602 . Understanding Interactions of Organic Pollutants at aqueous Interfaces Using Sum-Frequency Generation Vibrational Spectroscopy. **C. Checinski**, J.D. Cyran
603 . P. Gingivalis driven Aβ Misfolding. **A. Ray**, U. Hansmann
604 . Transition of Serum Amyloid A monomer. **R. Sheridan**, F. Yasar, U. Hansmann
605 . Assembling Macromolecular Diffusion from Sequence and Structure. **E. Fazelpour**, C.J. Fennell
606 . Calculation of Local Density of Optical States (LDOS) Enhancement for Quantifying Molecular Interactions During Vibrational Coupling. **J. Yim**, Z. Brawley, M.T. Sheldon

607 . Physical Tuning of the Photo-Chemical Response in Biverdazyl Biradicals. **C.R. Clark**, E. Ingram, O. Gunaydin-Sen, D.J. Brook

WEDNESDAY MORNING

Classroom 101

Materials

T. Runcevski, *Presiding*

8:00 608 . Optimal Electrolyte Choice Enables System-level Solution for Li/FeF_3 batteries. **B.R. Wygant**, L. Merrill, T.N. Lambert, K. Harrison

8:30 609 . Measuring the Energy Sensitivity to Carrier Scattering in A Metamaterials System. **S. Tang**

9:00 610 . Ionic Material-Based Combination Cancer Therapy Drugs. **N. Siraj**, S. Macchi

9:30 611 . Intercalation chemistry and electrochemistry of carbaboride, NaB_5C and $Mg_{0.5}B_5C$. M. Shabetai, J. Fontenot, **V. Poltavets**

10:00 612 . Vitrification of Broad Spectrum Antibiotics from Glass-Forming Solutions. **T. Runcevski**

10:30 613 . Cellular Uptake and Cytotoxicity of Varying Aspect Ratios of Gold Nanorods in HeLa Cells. **Y. Vasquez**

11:00 614 . Confocal Raman Microscopy in the Study of Polymer-Polymer and Electrode-Electrolyte Interfaces. **C.L. Korzeniewski**, E.M. Peterson, J.P. Kitt, J.M. Harris

11:30 615 . Using Phytochemicals in Tea to Create Metal Nanoparticles. **R. Morales**, V. Lam

Classroom 106

Uncovering Chemical Structure & Dynamics with Light Energy and Charge Transport

D. Bennett, *Presiding*

8:00 616 . Insights from Single Particle Spectroscopy of Plasmonic Nanostructures. **S. Link**

8:30 617 . Simulating Mesoscale Quantum Dynamics in Molecular Materials. **D. Bennett**

9:00 618 . Electronic Raman Spectroscopy for Understanding Polaritonic Chemistry. **M.T. Sheldon**

9:30 Poster Session and Coffee Break.

10:30 619 . Transient Absorption Microscopy to Probe the Impact of Triplet-triplet Binding on Transport in Singlet Fission-Capable Perylene Diimide Films. **M.A. Verkamp**, S.T. Roberts

11:00 620 . Light Capture and Energy Conversion in Plasmonic-Polymeric Hybrid Nanomaterials. **E. Searles**, S. Collins, L.J. Tauzin, S. Link, C.F. Landes

Classroom 107

Applications of Synthetic Organic Chemistry

Cosponsored by ORGN A. J. Grenning, *Presiding*

8:10 621 . Catalytic Enantioselective Redox-Neutral Processes for Efficient Chemical Synthesis. **Y. Zhao**

8:35 622 . Synthetic Reactions Enabled by Unsymmetrical Oxyallyl Cations. **R. Kartika**, J. Malone, S. Philkhana, F. Badmus, N. Dange, C. Ayala

9:00 623 . New Catalytic Reactions for the Selective Functionalization of π-systems. **L. Romero**

9:25 Intermission.

9:40 624 . Bisketene Equivalents as Diels–Alder dienes, and their Application in Natural Product Synthesis. **C. Newton**

10:05 625 . Venturing Outside Flatland: Formation of Hindered Bonds in Aliphatic Systems. **T. Qin**

10:30 626 . Natural Products Against triple Negative Breast Cancer. **F. Rivas**

10:55 Intermission.

11:20 627 . Creating Chemical Tools for the Study of Tuberculosis. **J. Aube**

Classroom 105

Inorganic

A. E. Gorden, *Presiding*

8:30 628 . Bifunctional Nickel and Copper Electrocatalysts for CO_2 Reduction and the Oxygen Evolution Reaction. **H. Pan**, C. Barile

8:50 629 . Porous Coordination Cages (PCCs): a New Approach to Improve Molecular Photocatalysts. **H. Lin**

9:10 630 . Same Boring Story? A look at Lanthanide Beta-diketonate Complexes across the Lanthanide series. **E.M. Fatila**

9:40 631 . Electrochemical and Light-driven Carbon Dioxide Reduction by Molecular Manganese Catalysts: Exploring the Positional Effect of Second-Sphere Hydrogen- Bond Donors. S. Sinha Roy, K. Talukdar, **J.W. Jurss**

10:10 Intermission.

10:25 632 . Pyridine Functionalization on a Pyridinophane Iron Complex System Offers a Handle on Catalytic Reactivity. **M.A. Mekhail**

10:55 633 . Imidazole and Schiff Based Ligands for Coordination of Uranium (VI) and Copper (II). **A.E. Gorden**, E.A. Hiti
11:25 634 . Synthesis of New Bisphosphine and Bisphosphine Monoxide Rhodium(III) Complexes - Expected and Unexpected Results. **C. Hahn**, J.T. Medina
Classroom 104
Physical
M. Simons, *Presiding*
8:40 635 . Application of Machine Learning in Reduced-Scaling Quantum Chemistry.
I. Satyarth, D. Matthews
9:00 636 . Investigating Reduced-Scaling Methods for Organic Reactions. **A. Abdul**, D. Matthews
9:20 637 . Transition-Potential Coupled Cluster. **M. Simons**, D. Matthews
9:40 638 . Tensor Hypercontraction for both the Hamiltonian and the Wavefunction. **S. Becker**, D. Matthews
10:00 Poster Session and Coffee Break.
10:20 639 . The Role of ATP in the RNA Translocation Mechanism of SARS-CoV-2 NSP13 Helicase. **M. McCullagh**
10:50 640 . Ground-State Au(I)-Ag(I) Covalent Bonding in an Ion-Paired Mononuclear Complex Between the Tollens' Reagent and Dicyanoaurate(I). **P.S. Bagus**, Z. Lu, K. Melancon, D.A. Hrovat, M.A. Omary
11:20 641 . Developing the Reactive Force field ReaxFF for Si-based Polymer- derived Ceramics. **S. Haseen**, P. Kroll
11:40 642 . Reaction Mechanisms during Crosslinking and Pyrolysis of Ceraset PVZ20. **H. Hayes**, P. Kroll

SWRM23
Report to SWRM Board
November 2022

2023 SWRM

SWRM 2023 will be held in Oklahoma City (OKC) on November 15-18, 2023, hosted by the Oklahoma Local Section. All sessions will be held in the Omni Hotel in downtown Oklahoma City, which is adjacent to the streetcar line, Scissortail Park, and the OKC Convention Center.

Committee Members:

Co-general chairs: Lloyd Bumm (University of Oklahoma) and Cheryl Frech (University of Central Oklahoma, emeritus)

Program chair: Frank Blum (Oklahoma State University)

Treasurer: Jason Wickham (Northwestern Oklahoma State University)

Finance Committee Chair: Keith Vitense (Cameron University)

Awards Chair: Stephanie Jones (University of Central Oklahoma)

Marketing/Public Relations: Kay Bjornen (Oklahoma State University, emeritus)

Exposition Chair: Chuck Rice, University of Oklahoma

Progress to-date:

Our local section has been incorporated and an LLC created for SWRM 2023. Contract with the Omni Hotel was signed. We have worked with Kim Savage at ACS to develop a timeline and

discuss which roles will be handled by ACS staff and which will be handled by volunteers. We are holding a series of strategic planning workshops in November 2022.

Budget Development:

A preliminary budget is included. Registration fees are listed in the accompanying worksheet.

Program Committee Update, Frank Blum

Program Theme: Chemistry Energized

Program Overview:
The program, based on room availability will consist of up to about 32 half-day symposia; some symposia may be full-day symposia, with 2 sessions. The regular program will be from Wednesday, November 15 through Friday, November 17. There may be activities on Tuesday afternoon/evening and Saturday.

Symposia Planned:
Current programs planned include:

Chemistry and Energy: Energy Exploration/Development (1), Hydrocarbon Processing (1), Chemical Production (1), Environmental Issues (1), Catalysis (1 or 2), Polymer Chemistry (1 or 2), Composites (1), Polymer Recycling (1), Solar, Fuel Cells and Wind Power (1), Energy of the Future (1).

Special Symposia: Photonics (2), Brewing (1), Teaching Organic Chemistry (1 or 2), Teaching General Chemistry (1 or 2), Biotechnology (1 or 2), Small Chemical Enterprises(1), In Memory of Fritz Schmitz (Natural Products in Oklahoma) (1).

General Topic Sessions: Analytical (2), Physical (1), Organic (3), Materials (1or 2), Bioorganic/Inorganic (1)

Unassigned/Undetermined (8)

Plenary Speaker – Undetermined.

Poster and Undergraduate Program, Exposition, Recruiting Fair, Division Showcase.

Precollege Program: Saturday morning.

Note: The full program with organizers will be solidified in early 2023, however, several organizers are already onboard.

SWRM23 - OKC						
LINE ITEM	**BUDGET**	**NOTES**	More notes			
REVENUES						
A. Advance from Steering Cmte	0	Subject to rules of Steering Committee., generally considered a loan				
B. Advance from Local Section.	10,000					
C. Registration	85,550	See worksheet	795	attendee	Increased 10/22	
D. Grants/Contributions	12,500					
E. Sponsorships	11,000					
F. Housing Subsidy	8,159	410 rooms @199 @10% (Staff rooms not included)				
Subtotal	**127,209**	Revenues not directly related to expenses. Should exceed subtotal for non-discretionary expenses				
F. Banquet tickets (ticketed)	5,000	$ x # persons (price should include taxes & gratuities). Budget should equal expense line item				
G. Luncheon Tickets	900	See banquet tickets. WCC?, Senior Bereakfast				
H. Mixer tickets (ticketed Drinks)	1,500	Charge based on bar prices per drink, taxes, gratuities,& cost of bartender	presumably hotel will do			
I. Exposition	30,000	# of booths x revenue/booth. Budget should exceed expense category F, making a net contribution toward the overall expenses				
J. Advertising revenues	1,000	Ads sold in program booklet, volunteer shirts	what to do about program books.			
K. Interest earned		If interest bearing checking account is used				
L. ACSBoard Reception	5,000					
L. Miscellaneous						
TOTAL REVENUES	**170,609**					
EXPENSES						
A. Committee Expenses						
1. Meetings	5,000	Travel to SWRM21, SWRM22				
2. Postage, supplies, misc.	100					
3. Steering Committee Luncheon	750					
4. OKC Travel Expenses	1,000					
B. Printing/Publicity						
1. Abstract Book	1,500	No. copies based on No. registrants. - On line Program				
2. Flyers - printing/mailing/postage	1,000	Specify no. of mailings and kind of flyer and get estimates				
3. Web page design	2,000					
4. Ads in local section pubs	2,000		Send to all local sections for inclusion			
5. Ads in C&EN, other pubs	2,000					
6. Miscellaneous	5,000	Promotional Give-Aways, etc				
C. Meeting Site Expenses						

1. Space Rental/Facility Charge	35,000	See facility contract. If possible rental or attrition charges apply, allow a modest sum here as a contingency.	
2. Audiovisual Services - basics	50,000	# sessions/per day x # days for standard equipment set-up.	Would be nice to lower cost.
3. Audiovisual Services - special		Allowance for possible special requests from guest speakers and/or LCDs	Is AV underestimated.
4. Microphones		Unless provided on a complimentary basis by facility.	
5. Facility liability insurance		included in ACS umbrella package	
6. Poster Sessions	2,000	Posterboard rental	may need easels
7. Miscellaneous		Gratuities to facility staff, drayage, etc.	
D. Program			
1. Symposium Grant	12,000	~~Suggested $300 –~~ $600 per 1/2 Day for targeted symposia	travel
2. Complimentary registrations	4,000	GS, UG, a 30 speakers	There were none for SWRM22
3. Awards Expenses	2,000	Plaques/Cash Awards If any	don't know same as 21
4. Misc. supplies, postage			
E. Registration			
1. Credit card fees	1,711	2003 Estimation = 2% of total registration fees budgeted	
2. 2 Telephone lines		Local Access and 800 # Only for use at registration area	
3. ACS Registration Charges	2,567	3% of registrations	Item added 10/22
F. Return of loan	10,000	Equals item A and/or B under revenues.	
Subtotal - non-discretionary expenses	**139,628**		
G. Exposition		Offset by revenues	
1. Decorator	1,400	# booths x cost per booth for pipe and drape and sign, plus other quoted costs.	
2. Exhibitor Prospectus Brochure	300	printing and mailing costs	
3. Misc postage, phone expense			
4. Space Rental			
5. Security	1,000		need to ask hotel
6. Prizes/Contests		Provided by exhibitors	
7. Miscellaneous	500	Exhibitor Box Lunch, etc	
H. Special Events/Activities			
1. Mixer	1,500	Offset by revenues, whether included in registration or a ticket sales event	set equal to above
2. Banquet/Luncheon(s))	5,000	Offset by revenues, whether included in registration or a ticket sales event	
2a Luncheon	900		
2c Board Recption	5,000	Supported by ACS Board	
3. Complimentary events tickets	950	Meals, receptions, special events where there is a fee.	
4. Other F&B Events (i.e., coffee breaks)	3,000	Offset by revenues, whether included in registration or a ticket sales event	
TOTAL EXPENSES	**159,178**		

NET	**11,432**					
Distribution: Host Section						
Distribution: Steering Comm. Treasury						

SERMACS 2025 – Planning Update **October 2022**

**Chris Chouinard will provide update to SERMACS board on 10/22 at exec meeting*

1. **Leadership**
    - **a.** General Chair – Chris Chouinard (Clemson University)
        - **i.** Note: Chris accepted a position to move to Clemson University (Clemson, SC) starting in August 2022. Although he is no longer in the Orlando Section, he remains committed to organization of this conference.
        - **ii.** The Orlando Section Executive Committee and SERMACS Planning Committee has agreed that it is in the best interest to appoint a General Co-Chair, and Chris Avery has agreed to take on that role.
    - **b.** General Co-Chair – Chris Avery (US Global Change Research Program/ICF)
    - **c.** Program Chair – Titel Jurca (UCF)
    - **d.** Exposition Chair – Michel Johnson (Orlando Local Section)
    - **e.** Treasurer – Van Quach (Seminole State College)
    - **f.** Webmaster (temporary) – Duy Le
    - **g.** Undergraduate Program Chair – Brian Mosby (Rollins)
    - **h.** Undergraduate Education Chair – Christopher Randles
    - **i.** K12 Education Chair – Romina Jannoti/Carrie Lopez
    - **j.** Advertising & Marketing Chair – TBD
    - **k.** Fundraising Chair – TBD
    - **l.** Additional Members of the Advisory Committee: Darlene Slattery, Mike Hampton, Lei Zhai, Gang Chen, Denisia Popolan-Vaida, Pavithra Pathirathna, Laura Sessions, Bob Rolle, Joel Olson, Roberto Peverati, DK Weerasinghe, Nicole Lapeyrouse, Steve Smith, Andy Knight, Romina Jannotti
    - **m.** Visit Orlando (Tourism Bureau) Local Liaison – Aitza Diaz
    - **n.** ACS Contacts – Brianna Blevins & Sydney Vranna
2. **2022 To-Do List**
    - **a.** Complete Organizing Committee – Notably Fundraising Chair and Advertising & Marketing Chair
        - **i.** Several volunteers to work within these committees, but no success with chairs yet
    - **b.** Begin soliciting major sponsors
        - **i.** We have constructed our Sponsor/Vendor tiers, including a ‘Title Sponsor’
        - **ii.** Also started to put together our vendor invite package
    - **c.** Finalize initial theme/logo for fundraising (Completed)
    - **d.** Begin reaching out to plenary speaker(s)
3. **2023 To-Do List**
    - **a.** Per discussions with ACS Natl, we should *begin looking* for a venue in early 2023
    - **b.** We have opted to have assistance from ACS for identifying a venue/hotel(s)
    - **c.** Begin planning Exhibition
    - **d.** Continue soliciting major sponsors
    - **e.** Finalize theme/logo
    - **f.** Begin Advertising
    - **g.** Symposia Funding Structure

BYLAWS OF THE
SOUTHWEST REGIONAL MEETING OF THE AMERICAN CHEMICAL SOCIETY
Revised, November 20~~19~~22

Several Local Sections of the American Chemical Society (the "Society") which lie within or partially within the states of Texas, Oklahoma, New Mexico, Arkansas and Louisiana have organized a District of Columbia non-profit Corporation known as SWRMACS (herein as "the Corporation") which will collectively sponsor technical meetings, present awards and other forms of recognition, and carry out various activities of interest and benefit to those members of the Society's Local Sections who reside in these states.

Article 1 Name and Organization

1. The Local Sections within the mentioned states which choose to participate in the common affairs of the Corporation are called collectively the Southwest Region Sections, or briefly, the Southwest Region. The affiliated Local Sections within the Southwest Region of ACS are:

Brazosport	Panhandle Plains
Baton Rouge	Permian Basin
Central Arkansas	Rio Grande Valley
Central Texas	Sabine–Neches
Dallas–Fort Worth	San Antonio
East Texas	South Plains
Greater Houston	South Texas
Heart O' Texas	Southwest Louisiana
Louisiana	Texas A & M
Northern Oklahoma	Tulsa
Northwest Louisiana	University of Arkansas
Oklahoma	Wichita Falls–Duncan
Ouachita Valley	

2. A participating Local Section may withdraw from the Region.

   a. To withdraw from the Corporation, a Local Section must submit resolution to do so to the Regional Secretary-Treasurer, who shall within thirty (30) days send copies of the withdrawal request to the affiliated Local Sections and to the Steering Committee.

   b. Participating Local Sections shall have thirty (30) days to send comments to the Regional Secretary-Treasurer after which the Executive Board shall meet with officers of the Local Section in an effort to reconcile differences.

   c. If this fails the Steering Committee may accept the withdrawal of the participating Local Section by a majority vote.

3. All participating Local Sections are entitled to equal status in all activities and operations of the Region.

   a. Participating Local Sections that do not host a regional meeting, pay dues, or otherwise engage in regional activities can be designated by the Executive Board as "Inactive".

   b. An inactive Section would not be eligible for any regional perquisites (including participation in any awards given by or to the Region).

   c. An inactive Section could petition the Steering Committee for reinstate to "Active" status explaining what measures have been taken to make it eligible for active membership, including the payment of outstanding dues.

4. The Executive Committee of the Corporation shall be composed of the Regional Chair, and the Regional Vice Chair and the Regional Secretary-Treasurer.

5. The Board of Directors of the Corporation shall be known as the Steering Committee and shall be made up of the Executive Committee of the Region and one representative from each of the participating Local Sections.

Article 2 Executive Committee

1. The **Chair** of the Executive Committee for the Corporation is elected by the Steering Committee for a five-year term, with the first term being 3 years (beginning 2016). The person who serves as Chair also serves on the Steering Committee and on the Executive Committee.

2. The **Vice Chair** of the Executive Committee for the Corporation is elected by the Steering Committee for a five-year term, with the first term being 3 years (beginning 2017). As Vice Chair, he/she serves on the Steering Committee and on the Executive Committee, and acts in the Chair's place as required.

3. The **Secretary-Treasurer** of the Corporation is elected by the Steering Committee for a five-year term. The person who serves as Secretary-Treasurer also serves on the Steering Committee and on the Executive Committee. The Secretary-Treasurer will set the agenda for the annual business meeting and run the meeting in the absence of the Chair.

4. Each member of the Executive Committee of the Corporation shall be also a member of one of the participating Local Sections of the Region during the term of office.

5. Should the office of Chair become vacant, through resignation or any other reason, the Vice Chair shall become Chair. Should the office of Secretary-Treasurer become vacant, an Acting Secretary-Treasurer shall be appointed by the Chair to serve until the new Secretary-Treasurer is elected by the Steering Committee. The Chair and the Vice Chair carry out such duties as their offices require, and as suggested in these Articles.

6. The Secretary-Treasurer carries out such duties, as the office requires; the office is charged specifically:

   (a) to maintain a list of Local Section representatives on the Steering Committee of the Corporation;

   (b) to notify these representatives at least four weeks in advance of the time and place of meetings of the Steering Committee;

   (c) to record the business carried out at such meetings and maintain such records;

   (d) to maintain the financial records of the Corporation, to manage the Steering Committee Fund and to arrange for an annual audit;

   (e) to receive and disburse monies on behalf of the Steering Committee; and

   (f) to present a financial report to the Steering Committee annually.

Article 3 Local Section Participation

1. Participation in the affairs of the Southwest Region is restricted to those Local Sections listed in Article 1.1. The status of participation is granted to a Local Section through the Steering Committee, upon request by the presiding officer of the Local Section.

2. The responsibilities of participation by a Local Section in the affairs of the Corporation include:

   (a) furnishing a representative to sit on the Steering Committee, and to take part in its deliberations;

   (b) assuming a financial obligation for the support of the activities of the Corporation; and

   (c) providing leadership from time to time as the Host Section for the Corporation's Regional Meeting.

Article 4 Southwest Regional Meeting

1. The Southwest Region shall annually sponsor a technical meeting called the Southwest Regional Meeting (SWRM), designated by the appropriate sequence of annual meetings. Meetings of the of the Region may be held virtually or through other electronic communications technology in which those in attendance will have an opportunity to read or hear the proceedings substantially concurrently with their occurrence, vote on matters submitted, pose questions, and make comments.

2. Generally, one participating Local Section will serve as the Host Section for the Meeting, which will be held within the geographical boundaries of the Section. However, joint sponsorship by two or more Local Sections within the Region is allowed, as is joint sponsorship between Regions.

3. The time and place of each Regional Meeting and its Host Section or Sections shall be decided and approved by the Steering Committee.

4. Bids for the Regional Meeting by a Local Section should be submitted to the Secretary-Treasurer of the Region at least five years before the meeting date. The bid should include in writing the following information:

   (a) Meeting Rooms. Include approximate number available and approximate size.

   (b) Exhibits Area. Location with respect to meeting rooms and approximate area. Provisions should be made for 35-45 booths approximately 8 'x 10'.

   (c) Housing. List of hotels/motels and number of rooms available within reasonable walking distance of meeting rooms.

   (d) Travel Facilities. Airlines serving major metropolitan areas of Southwest Region.

   (e) Endorsement from Chamber of Commerce or Conventions Organization indicating local support for the meeting.

   (f) Any other information which would be helpful for the committee in making the site selection.

5. The General Chair (or Co-Chair) of the Regional Meeting shall be selected from within the membership of the Host Section at least three years prior to the meeting. The Secretary-Treasurer of the Region shall be notified immediately upon the selection.

6. The arrangement and management of each Regional Meeting and all detailed matters shall be the concern of the Host Section.

7. Any monetary net surplus from the Regional Meeting shall accrue to the Host Section, except that 10% of such surplus shall be deposited in a Steering Committee Fund.

8. During the eighteen-month period which precedes the SWRM, the Host Section(s) may borrow up to a total of $5,000 or 20% of the assets, whichever is smaller, from the Steering Committee Fund for its running expenses. Any monies so borrowed must be repaid to the Fund within twelve months following the Regional Meeting.

9. If a deficit is incurred in conducting a SWRM, the host section(s) will be responsible for the loss up to $5.00 per member, based on total membership of the section(s). Any additional deficit will be underwritten by the Steering Committee Fund up to a maximum of $4,000 or 20% of the assets of the Steering Committee Fund, whichever is smaller. Larger deficits will be the responsibility of the host section(s).

Article 5 Steering Committee

1. The Steering Committee of the Corporation shall hold an annual business meeting, and any other meetings as may be necessary to carry out its affairs.

2. The time and place of the annual business meeting, and of any other meetings, shall be fixed by the Chair, with written notice sent by the Secretary-Treasurer to the Steering Committee Member of each participating Local Section and Executive Committee at least four weeks in advance of the time of the meeting.
3. At any meeting of the Steering Committee, fixed by the Chair, and announced by the Secretary-Treasurer as stated above, those members present shall constitute a proper quorum for conducting business.

4. The members of the Steering Committee include:

   (a) The Chair, the Vice Chair, and Secretary-Treasurer of the Region, which constitutes the Executive Committee, and

   (b) A Steering Committee member from each of the participating Local Sections within the region who will serve as its member on the Steering Committee. The Local Section member should be either a member appointed for at least a three-year period, to insure continuity of operation, or the Chair-Elect.

5. Any member of the Steering Committee may ask that the Secretary-Treasurer vote in their stead, as proxy, in any or all matters which come before the meeting. Such a request must be made, in writing, prior to the opening of the meeting.

6. The responsibilities of the Steering Committee are:

   (a) to name the Host Section, the time and the place for each Southwest Regional Meeting;

   (b) to maintain a Steering Committee Fund for use by the Corporation;

   (c) to provide counsel and guidance for Host Sections, and to review plans and proposed budget for the Regional Meeting; and

   (d) to lend continuity to the management of the Southwest Regional Meeting and to all other matters which relate to the Corporation

7. The order of business at the annual meeting of the Steering Committee shall include:

   (a) The reading of the minutes of the previous annual meeting, and the minutes of any following meeting of the Steering Committee and the Executive Committee;

   (b) the reporting of the financial status of the organization;

   (c) the reporting by various committees;

   (d) the reporting by the general chair of the current Southwest Regional Meeting;

   (e) the reporting by the general chair of the coming Southwest Regional Meeting, and the review of his/her plans and proposed budget;

   (f) the approval of Host Sections; time and places for future Regional Meetings; and

   (g) the consideration of any other matters pertinent to the business of the Region.

8. The Executive Committee shall serve with authority to carry out such business of the Corporation as may be required, except that specifically reserved for the action of the Steering Committee. All actions of the Executive Committee are to be reported at the next following meeting of the Steering Committee.

Article 6 Steering Committee Fund

1. The Secretary-Treasurer serves as manager of the Steering Committee Fund.

2. The primary of the Fund is to provide cash awards and aid in the implementation of Regional Meetings. However, these purposes should not prevent its use for other purposes pertinent to the affairs of the Corporation. Expenditures from the fund other than those directly related to Regional Meetings shall be approved by a majority of the members of the Steering Committee who vote.
3. From time to time, means of augmenting the Steering Committee Fund, other than those associated with surplus from Regional Meetings, may be suggested. Where such involve a request for contributions from participating Local Sections, approval of a majority of the members of the Steering Committee who vote is required.

4. Normal and customary travel expenses for the Chair of the Steering Committee, Vice Chair, Secretary-Treasurer and the General Chair of the following year's meeting (*i.e.*, for SWRM 2015, 2016 General Chair will be eligible) of up to $500 with receipts will be allowed if funds are not available from the local section. Exceptions will be judged on a case-by-case basis.

Article 7 Ad hoc Committees

1. The Chair of the Executive Committee may appoint ad hoc committees to assist in carrying out the business of the Corporation and its Steering Committee.

2. Each such ad hoc committee shall report on its activities and accomplishments at the annual business meeting of the Steering Committee. The Committee is dissolved following its report, unless specifically continued by the Chair.

Article 8 Awards Committee

1. The Corporation will have an awards committee consisting of at least 2 appointed members. This committee will:

a. Assist the Regional Meeting awards committee in ensuring that the Southwest Regional Awards are awarded each year.

b. Maintain a historical record of the awardees of each award.

c. Administration of the Student Presenter Travel Scholarships as set forth in the guidelines, which serve as an addendum to these Bylaws.

Article 9 Southwest Regional Awards

1. The Corporation will offer the following annual awards: ACS Division of Chemical Education Southwest Region Award for Excellence in High School Teaching (High School Teaching Award), Southwest Regional ACS Award, Stanley C. Israel Southwest Regional Award (Israel Award), E. Ann Nalley Regional Award for Volunteer Service to the American Chemical Society Southwest Region (Nalley Award), ACS SWRM Student Travel Award (Student Travel Award), and Partners for Progress and Prosperity Award (P3 Award).

    (a) The candidates for the High School Teaching Award shall be those persons nominated by participating Local Sections. Candidates must be a current or retired High School teacher in the Southwest Region of the ACS.

    (b) The candidates for the Southwest Regional ACS Award, Israel Award, Nalley Award and P3 Award shall be those persons nominated by participating Local Sections. Candidates must reside in the Southwest Region of the ACS during the time of the work and/or service leading to their nomination for the Award.

    (c) Awards shall be presented to the recipients during a Southwest Regional Meeting. They shall consist of appropriate certificates or plaques, equal monetary awards, and travel expenses to the SWRM that year.

    (d) Normal and customary travel expenses for the High School Teacher, Southwest Regional ACS and Nalley award winners of up to $500 with receipts will be allowed. Normal and customary travel expenses for the P3 Award winners of up to $500 with receipts for each partner will be allowed. Exceptions will be judged on a case-by-case basis.

(e) The monetary amounts of the awards will be $2,000 for the Southwest Regional ACS Award, $1,000 for the High School Teacher Award, $1,000 for the Nalley Award, and $1000 for each partner of the P3 Award winners. Change in monetary amounts of the awards can be made by a majority vote of the Steering Committee.

(f) Guidelines for administration of the Awards serve as an addendum to these Bylaws.
(g) SWRM will provide up to ten $500 travel awards for students who are presenting papers. Guidelines for the awards will be determined by the awards committee.

Article 10 Amendments of Bylaws

1. These Bylaws may be amended following approval of the suggested amendment by at least two-thirds of the members of the Steering Committee. The suggested amendment shall be received in writing by the Secretary-Treasurer over the signatures of not fewer than six members of the Steering Committee, together with reasons for the change. It shall be distributed by the Secretary-Treasurer for approval or disapproval to each member of the Steering Committee. Should the suggested amendment not be approved within one year of the date of its distribution, it is considered disapproved, and void.

Article 11 Dissolution

1. The Corporation defined by these Articles may be dissolved if approved by two-thirds (2/3) of the members of the Steering Committee.

2. Any monies held by the Corporation if so dissolved are to be dispersed among the participating Local Sections on a pro rata basis based on the total membership of each section.

Article 12 Enabling Clause

1. All policies and practices previously established by the Steering Committee which are inconsistent with any part or parts of these Bylaws are declared void upon adoption of these Bylaws. The provisions given herein become operative immediately upon adoption. Adoption is effected by approval of at least two-thirds of the members of the Steering Committee.

Location of Past and Future Southwest Regional ACS Meetings

No.	Year	Site	Host	Joint with	Net/Loss	Attendance
1	1945	University of Texas Austin, TX	Central Texas			
2	1946	Hotel Adolphus Dallas, TX	Dallas-Fort Worth			
3	1947	Rice Hotel Houston, TX	Southeastern Texas			
4	1948	Washington-Youree Hotel Shreveport, LA	Ark-La-Tex			
5	1949	Hotel Biltmore Oklahoma City, OK	Oklahoma			
6	1950	Gunter Hotel San Antonio, TX	San Antonio			
7	1951	University of Texas Chemistry Austin, TX	Central Texas			
8	1952	Little Rock, AR	South Arkansas Central Arkansas Univ of Arkansas			
9	1953	New Orleans	New Orleans	SERMACS		
10	1954	Hotel Texas Fort Worth, TX	Dallas-Fort Worth			
11	1955	Shamrock-Hilton Hotel Houston, TX	Southeastern Texas			
12	1956	Memphis, TN	Memphis	SERMACS		
13	1957	Mayo Hotel Tulsa, OK	Tulsa			
14	1958	Hilton Hotel San Antonio, TX	San Antonio			
15	1959	Capitol House Hotel Baton Rouge, LA	Baton Rouge			
16	1960	Hotel Biltmore Oklahoma City, OK	Oklahoma			
17	1961	Jung Hotel New Orleans, LA	New Orleans	SERMACS		
18	1962	Statler-Hilton Hotel Dallas, TX	Dallas-Fort Worth			
19	1963	Shamrock Hilton Hotel Houston TX	Southeastern Texas			
20	1964	Captain Shreve and Washington-Youree Hotel Shreveport, LA	Ark-La-Tex			
21	1965	Hotel Peabody Memphis, TN	Memphis	SERMACS		
22	1966	Albuquerque, NM	Central New Mexico			
23	1967	Hotel Marion Little Rock, AR	Central Arkansas Univ of Arkansas			

No.	Year	Site	Host	Joint with	Net/Loss	Attendance
24	1968	Stephen F. Austin Hotel Austin, TX	Central Texas			
25	1969	Mayo Hotel Tulsa, OK	Tulsa			
26	1970	Roosevelt Hotel New Orleans, LA	New Orleans	SERMACS		
27	1971	Hemisfair Plaza Convention Center San Antonio, TX	San Antonio			
28	1972	Capitol House Motor Hotel Baton Rouge, LA	Baton Rouge			
29	1973	El Paso Convention Center El Paso, TX	Rio Grande Valley			
30	1974	Astroworld Hotel Houston, TX	Southeastern Texas			
31	1975	Cook Convention Center Memphis, TN	Memphis	27th SERMACS		
32	1976	Sheraton Hotel Fort Worth, TX	Dallas-Fort Worth			
33	1977	Little Rock Conv Center Little Rock, AR	Central Arkansas			
34	1978	Corpus Christi, TX	South Texas			
35	1979	JC Thompson Conf Center University of Texas Villa Capri Motor Hotel Austin, TX	Central Texas			
36	1980	Hyatt Regency New Orleans, LA	Louisiana	SERMACS		
37	1981	St Anthony Intercontinental Hotel San Antonio, TX	San Antonio			
38	1982	El Paso Convention Center El Paso, TX	Rio Grande Valley	6th RMRM		
39	1983	Williams Plaza Hotel Tulsa, OK	Tulsa			
40	1984	Lubbock Hilton Lubbock Civic Center Lubbock, TX	South Plains			
41	1985	Cook Convention Center Memphis, TN	Memphis	3th SERMACS		
42	1986	Adam's Mark Hotel Houston, TX	Southeastern Texas			
43	1987	Statehouse Conv Center Little Rock, AR	Central Arkansas			
44	1988	Corpus Christi Conv Center Corpus Christi, TX	South Texas			
45	1989	Hilton Hotel Baton Rouge, LA	Baton Rouge			
46	1990	Hyatt Regency Hotel New Orleans, LA	Louisiana	42nd SERMACS		

No.	Year	Site	Host	Joint with	Net/Loss	Attendance
47	1991	Hilton Palacio del Rio Hotel San Antonio, TX	San Antonio			
48	1992	Memorial Civic Center Lubbock, TX	South Plains			
49	1993	Hyatt Regency Hotel Austin, TX	Central Texas			
50	1994	Worthington Hotel Fort Worth, TX	Dallas-Fort Worth			
51	1995	Peabody Hotel Memphis, TN	Memphis	47th SERMACS		
52	1996	Adam's Mark Hotel Houston, TX	SE Texas			
53	1997	Adam's Mark Hotel Tulsa, OK	Tulsa			
54	1998	Baton Rouge Hilton Baton Rouge, LA	Baton Rouge			
55	1999	Camino Real Hotel El Paso, TX	Rio Grande Valley	15th RMRM		
56	2000	Hyatt Regency New Orleans, LA	Louisiana	52nd SERMACS		
57	2001	Omni San Antonio Hotel San Antonio, TX	San Antonio			
58	2002	Hilton Austin North & Towers Austin, TX	Central Texas			
59	2003	Westin Hotel Oklahoma City, OK	Oklahoma			
60	2004	Fort Worth Plaza Hotel Fort Worth, TX	Dallas-Fort Worth			
61	2005	Peabody Hotel Memphis, TN	Memphis	57th SERMACS		
62	2006	Marriott Westchase Hotel Houston, TX	Greater Houston		$ 101,521.52	
63	2007	Holiday Inn Park Plaza Hotel Lubbock, TX	South Plains		$ 13,278.02	
64	2008	Peabody Hotel Little Rock, AR	Central Arkansas		$ 23,000.00	
65	2009	Camino Real Hotel El Paso, TX	Rio Grande Valley		$ 12,777.00	
66	2010	Hilton Riverside Hotel New Orleans, LA	Louisiana	62nd SERMACS	$ 115,051.63	1610
67	2011	Double Tree Hotel Austin, TX	Central Texas		$ 36,923.40	1246
68	2012	Hilton Baton Rouge Capitol Center Baton Rouge, LA	Baton Rouge		$ 37,108.40	725
69	2013	Waco Convention Center Waco, TX	Heart O' Texas		$ 14,860.00	850
No.	Year	Site	Host	Joint with	Net/Loss	Attendance

70	2014	Renaissance Worthington Hotel Fort Worth, TX	Dallas/Ft Worth		$	65,800.10	755
71	2015	Sheraton Memphis Downtown Memphis, TN	Memphis	67th SERMACS	$	70,000.00	930
72	2016	Galveston Conv Center Galveston, TX	Greater Houston		$	50,269.90	1001
73	2017	Overton Center Lubbock, TX	South Plains		$	44,457.83	650
74	2018	Little Rock Marriott and Convention Center Little Rock, LA	Central Arkansas		$	-3,953.35	600
75	2019	El Paso Convention Center El Paso, TX	Rio Grande Valley Wyoming	35th RMRM	$	13,100.11	570
76	2020	Hilton Riverside Hotel New Orleans, LA	Louisiana	SERMACS	$	-3,666.42	0
		Meeting terminated due to COVID-19					
77	2021	AT&T Hotel & Conf Center Austin, TX	Central Texas		$	19,307.96	954
78	2022	Hilton Baton Rouge Capital Center Baton Rouge, LA	Baton Rouge				
79	2023	Omni Oklahoma City Hotel Oklahoma City, OK	Oklahoma				
80	2024	Waco, TX	Heart O' Texas				
81	2025	Orlando, FL	Orlando	76th SERMACS			
82	2026	Dallas-Ft. Worth, TX	Dallas/Ft. Worth				
83	2027	Lubbock, TX	South Plains				

Rotation Schedule

Bid Year	Host Year			
2019	2024	Waco		
	2025		SERMACS	SWRM
2021	2026	Dallas-Ft Worth		
2022	2027	Lubbock		
2023	2028	Little Rock		
2024	2029	San Antonio		
2025	2030	New Orleans	SWRM	SERMACS
2026	2031	El Paso		
2027	2032	Houston		
2028	2033	Baton Rouge		
2029	2034	Austin		
	2035		SERMACS	SWRM
2031	2036	A&M - College Station		
2032	2037	Oklahoma		
2033	2038	Waco		
2034	2039	Dallas-Ft Worth		
2035	2040	New Orleans	SWRM	SERMACS
2036	2041	Lubbock		

Rotation	
Dallas-Ft Worth	TX
Lubbock	TX
Little Rock	AR
San Antonio	TX
El Paso	TX
Houston	TX
Baton Rouge	LA
Austin	TX
A&M - College Station	TX
Oklahoma	OK
Waco	TX

New Orleans every 10

Southwest Regional Award Winners

Year	Name	Company/Institution	Location
1948	Dr. E. P. Schoch	The University of Texas	Austin, TX
1949	Dr. Fred Frey	Phillips Petroleum Co.	Bartlesville, OK
1950	Dr. R. J. Williams	The University of Texas	Austin, TX
1951	Dr. Klare Markley	USDA Southern Regional Laboratory	New Orleans, LA
1952	Dr. P. L. Day	University of Arkansas Medical School	Little Rock, AR
1953	Dr. H. R. Henze	The University of Texas	Austin, TX
1954	Dr. Phil West	Louisiana State University	Baton Rouge, LA
1955	Dr. V. A. Kalichevsky	Mobil Oil Corporation	Beaumont, TX
1956	Dr. W. O. Milligan	The Rice Institute	Houston, TX
1957	Dr. Guy Waddington	U. S. Bureau of Mines	Bartlesville, OK
1958	Dr. K. A. Kobe	The University of Texas	Austin, TX
1959	Dr. Paul Delahay	Louisiana State University	Baton Rouge, LA
1960	Dr. Edward S. Amis	University of Arkansas	Fayetteville, AR
1961	Dr. H. L. Lochte	The University of Texas	Austin, TX
1962	Dr. Joe Franklin	Esso Research & Engineering Co.	
1963	Dr. Jacob Sacks	University of Arkansas	
1964	Dr. Raymond Reiser	Texas A&M University	College Station, TX
1965	Dr. Norman Hackerman	The University of Texas	Austin, TX
1966	Dr. Richard B. Turner	Rice University	Houston, TX
1967	Dr. Sean P. McGlynn	Louisiana State University	Baton Rouge, LA
1968	Dr. Rowland Pettit	The University of Texas	Austin, TX
1969	Dr. Nugent F. Chamberlain	Esso, Research & Engineering Co.	Baytown, TX
1970	Dr. Paul Kuroda	University of Arkansas	Fayetteville, AR
1971	Dr. Bruno J. Zwolinski	Texas A&M University	College Station, TX
1972	Dr. Ruth R. Benerito	USDA Southern Regional Laboratory	New Orleans, LA
1973	Dr. John L. Margrave	Rice University	Houston, TX
1974	Dr. George Willard Watt	The University of Texas	Austin, TX
1975	Dr. William A. Pryor	Louisiana State University	Baton Rouge, LA
1976	Dr. Arthur E. Martell	Texas A&M University	College Station, TX
1977	Dr. F. Albert Cotton	Texas A&M University	College Station, TX
1978	Dr. Michael J. S. Dewar	The University of Texas	Austin, TX
1979	Dr. Malcolm Dole	Baylor University	Waco, TX
1980	Dr. Jett C. Arthur, Jr	USDA Southern Regional Laboratory	New Orleans, LA
1981	Dr. Ralph S. Becker	University of Houston	Houston, TX
1982	Dr. Marvin Johnson	Phillips Petroleum Co.	Bartlesville, OK
1983	Dr. Jack H. Lunsford	Texas A&M University	College Station, TX
1984	Dr. Paul D. Bartlett	Texas Christian University	Fort Worth, TX
1985	Dr. Arthur Fry	University of Arkansas	Little Rock, AR
1986	Dr. Alan H. Cowley	The University of Texas	Austin, TX
1987	Dr. Edward S. Lewis	Rice University	Houston, TX

Year	Name	Company/Institution	Location
1988	Dr. Albert Zlatkis	University of Houston	Houston, TX
1989	Dr. R. W. Estabrook	University of Texas Southwestern Medical School	Dallas, TX
1990	Dr. John P. Fackler	Texas A&M University	College Station, TX
1991	Dr. Donald E. Woessner	Mobil Research & Development Corp.	Dallas, TX
1992	Dr. Richard E. Smalley	Rice University	Houston, TX
1993	Dr. Marye Anne Fox	The University of Texas	Austin, TX
1994	Dr. Robert Botto	Exxon Research & Engineering Co.	Baytown, TX
1995	Dr. J. J. Lagowski	The University of Texas	Austin, TX
1996	Dr. Abrahaim Clearfield	Texas A&M University	College Station, TX
1997	Dr. Max Mc Daniel	Phillips Laboratories	Bartlesville, OK
1998	Dr. Marcetta Darensburg	Texas A&M University	College Station, TX
1999	Dr. John Michael White	The University of Texas	Austin, TX
2000	Dr. Joseph B. Natowitz	Texas A&M University	College Station, TX
2001	NONE GIVEN		
2002	Dr. Jay K. Kochi	University of Houston	Houston, TX
2003	Dr. Peter Pulay	University of Arkansas	Fayetteville, AR
2004	Dr. Patrick Cassidy	Texas State University	San Marcos, TX
2005	Dr. Larry Peck	Texas A&M University	College Station, TX
2006	Dr. Thomas B. Malloy, Jr	University of St. Thomas	Houston, TX
2007	Dr. Xaolian Gao	University of Houston	Houston, TX
2008	Dr. David Bergbreiter	Texas A&M University	College Station, TX
2009	Dr. Raskia Dias	University of Texas at Arlington	Arlington, TX
2010	Dr. Wayne Goodman	Texas A&M University	College Station, TX
2011	Dr. Sean O'Brien	Texas Instruments	Dallas, TX
2012	Dr. Pernendu Dasgupta	University of Texas at Arlington	Arlington, TX
2013	Jonathan L Sessler	The University of Texas	Austin, TX
2014	Frank M Raushel	Texas A&M University	College Station, TX
2015	Charles Wilkins	University of Arkansas	Little Rock
2016	Dr. Walter H. Waddell	ExxonMobile Chemical Company	Houston, TX
2017	Prof. Laszlo Prokai	University of North Texas Health Science Center	Fort Worth, TX
2018	Satomi Niwayama	Muroran Institute of Technology (Oklahoma State University & Texas Tech University)	Oklahoma City, OK and Lubbock, TX
2019	Dr. Michael Wong	Rice University	Houston, TX
2020	Julia Chan	University of Texas at Dallas	Dallas, TX
2021	Banglin Chen	University of Texas at San Antonio	San Antonio
2022	Francois Gabbal	Texas A&M University	College Station, TX

Excellence in High School Teaching Award

Year	Name	School	Section
1981	Bob Roe		
1982			
1983			
1984			
1985			
1986			
1987			
1988			
1989			
1990			
1991	George R. Hague, Jr.	St. Mark's School of Texas	Dallas-Fort Worth
1992	Ms. Shelley Sweatt	Burkburnett HS	Wichita Falls-Duncan
1993	Kristen Henry	A&M Consolidated HS	Texas A&M
1994	Adriano Gonzales	Oliver Holmes HS	San Antonio
1995			
1996	Ken Lyle		
1997			
1998			
1999	NONE GIVEN		
2000	Barbara C. DeCuir	LSU Laboratory School	Baton Rouge
2001	Jerry Mullins		
2002			
2003			
2004	Dwan Garrison	Flippin HS	Greater Houston
2005	Paul Price	Trinity Valley School in Ft. Worth	Dallas-Fort Worth
2006	Amiee Modic	Katy High School	Greater Houston
2007	Valerie Ferguson	Moore High School	Oklahoma
2008	Roxana (Roxie) Allen	St. John’s School	Greater Houston
2009	Faslur Rahman	Oklahoma School of Science and Mathematics	Oklahoma
2010	Jennifer Cruze	Carroll High School	Dallas-Fort Worth
2011	Michael Trulson	Highlands School	Dallas-Fort Worth
2012	Lynn E. Millkan	St. Thomas Episcopal School	Greater Houston
2013	Robyn Ford	Denton High School	Dallas-Fort Worth
2014	Robert Lee	Rogers High School	Central Arkansas
2015	Mary Elizabeth Maris	Little Rock Central High School	Central Arkansas
2016	Carol B. Brown	Saint Mary's Hall	San Antonio
2017	Karen Compton	Plano East Senior HS	Dallas-Fort Worth
2018	Usha Devathosh	North Houston Early College High School	Greater Houston
2019	Margaret Connor	Huntington-Surrey School	Central Texas
2020	Jo L King	Plano West Senior High School	Dallas-Fort Worth

2021	Jennifer Notz	Jordan High School	Greater Houston
2022	Ms. Jamie Flint	Spring Woods High School	Greater Houston

E. Ann Nalley Award for Volunteer Service to ACS

Year	Name	Section
2006		
2007		
2008	Sunny C. Tang	Greater Houston
2009		
2010	Paritosh Das	Wichita Falls- Duncan
2011	Donna Nelson	Oklahoma
2012		
2013	Robert I. Botto	Greater Houston
2014	Mamie W. Moy	Greater Houston
2015	Diana S. Mason	Dallas-Fort Worth
2016	Robert Fanick	San Antonio
2017	Keith Vitense	Wichita Falls-Duncan
2018	Kayla N Green	Dallas-Fort Worth
2019	Carolyn Burnley	Greater Houston
2020	Amber Hinkle	Greater Houston
2021	Martin Perry	Central Arkansas
2022	Dr. Faith Yarberry	University of Central Arkansas

Stanley C Israel Award for Advancing Diversity in the Chemical Sciences

Year	Name	School
2004		
2005		
2006		
2007		
2008		
2009	Antoine Carty	
2010	Zakiya Wilson	Louisiana State University
2011	Donna Nelson	Oklahoma
2012	Keith Pannell	University of Texas at El Paso
2013	Isaiah Warner	Louisiana State University
2014	Carolyn Burnley	Project SEED Greater Houston Section
2015		
2016	Dr. Ann Nalley	Cameron University
2017	Chemistry Department	Xavier University
2018	NOT GIVEN	
2019	Javoris Hollingsworth	University of St. Thomas
2020	Dr. Aderemi Oki	Prairie View A&M University
2021	Sarbajit Banerjee	Texas A&M University
2022	Angel Marti	Rice University

Partners for Progress and Prosperity (P3) Award

Year	Name	Organization	Section
2014			
2015			
2016			
2017	NOT GIVEN		
2018	NOT GIVEN		
		University of St. Thomas	
2019	Crystal Young	Elijah Rising	Greater Houston
2020	Darren L Williams	Sam Houston State University	Greater Houston
	Barbara Kaegsber	BFK Solutions, LLC	
2021	Jennifer Kennon	Brazosport College	Brazosport
	Daniel Abebe	Dow Chemical Company	
2022	Michael A. Reynolds	Shell USA	Greater Houston
	Michael S. Wong	Rice University	
	Pedro J. J. Alvarez		

Student Travel Awards

Year	First Name	Last Name	School	Section
2016	Darby	Ball	LeTourneau University	East Texas
	Emmanuel	Ilondiar	Cameron University	Wichita-Falls Duncan
	Jacobs	Jordan	Tulane University	Louisiana
	Andrew	Kocian	St. Edward's University	Central Texas
	Jacob	McCabe	TX A&M - Commerce	Dallas-Ft. Worth
	Sierra	Miller	West Texas A&M University	Panhandle Plains
	Gayan	Premaratne	Oklahoma State University	Oklahoma
	Troy	Selby-Karney	Lamar University	Sabine-Neches
	Zhi	Tan	MD Anderson Cancer Center	Greater Houston
2017	Corbin Bruner	McCleary	Sam Houston State University	Greater Houston
	Eduardo	Montoya	University of North Texas	Dallas-Ft. Worth
	Tochukwu	Nwaiwu	Cameron University	Wichita Falls-Duncan
	Michael	Poltash	Texas A&M University	Texas A&M
	Rebecca	Rhode	Eastern New Mexico University	South Plains
2018	Mistura O.	Faro	Cameron University	Wichita Falls-Duncan
	Juan Carlos	Mora	Sul Ross State University	Permian Basin
	Robert	Moreland	LeTourneau University	East Texas
	Isaac	Onyango	University of Oklahoma	Oklahoma
	Yixin	Ren	University of Texas at Dallas	Dallas-Ft. Worth
	Ivette	Rodriguez	Sam Houston State University	Greater Houston
	Shayla	Smithson	University of Arkansas - Ft. Smith	University of Arkansas
2019	Romafu	Bates	St Edward's University	Central Texas
	Mazhar	Chebl	University of Houston	Greater Houston
	Mithun	Ghosh	University of Houston	Greater Houston
	Luis	Guillermo		Rio Grande Valley
	Ardon	Munoz	Oklahoma State	Oklahoma
2020	NOT GIVEN	Meeting terminated due to COVID-19		
2021	Peiyu	Cai	Texas A&M University	Texas A&M
	Deysha	Carrasco	Midland College	Permian Basin
	Cameron Lee	Lopez	New Mexico State University	Rio Grande Valley
	Melissa	Orr	University of Texas at Arlington	Dallas-Ft. Worth
	Alsahaima'a	Quines	University of North Texas	Dallas-Ft. Worth
	Juliana	Rodriguez	University of Texas at Rio Grande Valley	South Texas
	Joshua	Spiva	Ouachita Baptist University	Central Arkansas

2021	Bo	Wang	Rice University	Greater Houston
	Meng	Wang	University of Houston	Greater Houston
2022	Muhammad	Abbas	University of Texas at Dallas	Dallas-Ft. Worth
	Sophia	Jacob	University of North Texas	Dallas-Ft. Worth
	Hope	Murphy	Ouacita Baptist University	Central Arkansas
	Rehema	Nakiwala	Oklahoma State University	Oklahoma
	Jaqueline	Soares	University of Houston	Greater Houston