



NEWSLETTER

Oklahoma Section American Chemical Society

Volume 25 Number 1

<http://oklahoma.sites.acs.org/>

February 2020

Section Meeting

Thursday 27 Feb 2020

PRIESTLEY MEDAL ADDRESSES Tools for Teaching about the Recent History of Chemistry

Luis D. Montes



*Department of Chemistry
University of Central Oklahoma, Edmond, OK*

The past 100 years have witnessed a significant increase in chemical knowledge. This has led to greater roles for chemists in education, government, and industry, and advancements in chemistry play important roles in our daily lives. Despite this increased role, we as chemical educators often find little time to teach about the history of our discipline, much less the recent past. Through our regular chemistry curriculum, chemistry majors learn plenty about chemical principles. What do they know about the many roles recent chemists played in promoting chemistry through their research, teach-

abstract continued on page 2 with the speaker's bio sketch. →

Univ. of Central Oklahoma, Edmond, OK
Howell Hall Atrium and
Nigh University Center Room 326

6:00–6:30 pm Reception (Howell)
6:30–7:15 pm Dinner (Nigh)
7:15–8:15 pm Presentation (Nigh)



UCO campus map
with parking code

Campus map (QR above) Paid parking is available in the Visitor Lot, east of the Nigh University Center. See the parking map for instructions and a code to get free parking. The Howell Hall Atrium is on the ground floor between Howell Hall and the Howell Hall Laboratory Annex Building. The Heritage room (326) is on the third floor to the right of the central stairway.

Dinner Reservation Information

Menu, Fajita Buffet

Beef and chicken fajita strips tossed in grilled peppers and onions beside warm flour tortillas	Cost \$20 members \$5 students
Spanish rice and refried beans shredded cheddar, sour cream, guacamole, shaved lettuce and tomatoes cinnamon churros with warm honey	RSVP Deadline Monday 24 Feb noon Contact: Carla Supon 405-974-5018 csupon@uco.edu

Vegetarian option available — Please indicate when you RSVP.

RSVP is NOT required to attend the presentation.

Meet the 2020 Chair Elect

Jeanne Bolliger is a Professor of Chemistry at Oklahoma State University. She carried out both her undergraduate studies and PhD thesis at the University of Zurich in Switzerland from which she graduated in 2007 with a Diploma (Master) and four years later with a Doctorate (PhD) in Inorganic Chemistry. While working in the group of Dr. Christian Frech, she developed a simple synthesis for aminophosphine-based palladium pincer complexes and tested these novel, highly active palladium catalysts in cross-coupling reactions. In the meantime, three of these palladium complexes are commercially available (Sigma Aldrich, product numbers 727733, 744220, and 744999). Having successfully applied in 2011 for 18 months of funding from the Swiss National Science Foundation, Dr. Bolliger continued her academic career at the University of Cambridge under the mentorship of Professor Jonathan R. Nitschke (Supramolecular Chemistry). In 2014, Dr. Bolliger joined the group of Prof. Matthew Gaunt (Organic Chemistry, University of Cambridge) where she spent nearly two years spearheading new research directions in the area of Bioorthogo-



Bolliger continued on page 3 →

• Web Master Needed •

Are you interested in volunteering to serve as webmaster?

Contact: Allen Apblett (allen.apblett@okstate.edu) or
Stephanie Skiles (sskiles@uco.edu)

65TH ANNUAL PENTASECTIONAL MEETING

Saturday 18 Apr 2020

Pittsburg State University, Pittsburg, KS

Fall Election Results

Please join me in congratulating the winners of this year's ACS Oklahoma Section Election. Terms beginning 01 Jan 2020.

- Chair-Elect (3 year term chair elect/chair/past chair, will be chair in 2021.)
Jeanne L. Bolliger
- Secretary (2 year term starting 01/01/20.)
Lloyd A. Bumm

Councilor's Report

Allen W. Apblett (Oklahoma Section Councilor)

We are between council meetings and the agenda is not out for the next meeting in March so there is nothing to report with respect to council actions. Therefore this report will focus on some other news that may be of interest to members of the Oklahoma Section. First our new President Elect is H. N. Cheng, a research chemist with the U.S. Department of Agriculture in New Orleans. We also elected Lisa Houston as the new Director for District IV, the district to which the Oklahoma Local Section belongs. Lisa is based in Houston where she is director of the Petroleum Analyzer Company.

The ACS has announced a new benefit—special discounts from Office Depot. U.S.-based ACS Members can save up to 10% off the everyday web price on more than 30,000 office supplies available through the ACS Office Depot Partner Program. Register at www.1800member.com/od-acs or call 1-800-636-2377. Once registered, you can shop in store or online.

The ACS is providing New Faculty Workshops that focus on sharing and developing essential skills that faculty need to successfully navigate the early years of their research and teaching careers. There is an emphasis on implementing active learning strategies in the classroom. Please note that grant writing is not the primary focus of this event. Acceptance to the New Faculty Workshop is through a competitive application process. Applicants must be in their first, second, or third year of appointment at their institution to be eligible, and preference will be given to faculty in chemistry departments or who clearly demonstrate research and teaching within chemistry. Faculty from both 2- and 4-year institutions are encouraged to apply; please see the Frequently Asked Questions page in the website for additional eligibility details. A limited number of scholarships are available thanks to a generous contribution from the Research Corporation for Science Advancement. The first workshop is June 11-14, 2020, applications will be accepted is a January 31-March 27, 2020 and the anticipated registration fee is \$850. This “extended time” workshop will run into the evening of Saturday, June 13. The \$850 registration fee includes accommodations for June 11, 12, and 13; a reduced \$650 registration fee will be available that excludes accommodations for June 13. The second workshop is August 6-8, 2020, applications will be accepted March 4-May 1, 2020, and the anticipated registration fee is \$650. This workshop will end at approximately 1 PM ET on Saturday, August 8. The registration fee includes hotel accommodations for August 6 and 7. Both workshops will be at the American Chemical Society's headquarters in Washington, DC. Please visit the New Faculty Workshop website for additional information.

<https://www.acs.org/content/acs/en/education/educators/coursesworkshops/csc-new-faculty-workshop.html>



SWRM 2023 OKC
hosted by the Oklahoma Section

(Speaker—continued from front page)

ing, and service? Based on their observations of chemistry faculty in the classroom and lab, chemistry majors may be familiar with the work done by academic chemists. How much exposure do these majors get to chemists working outside of academia?

The Priestley Medal is ACS's highest award, given annually to recognize an individual for distinguished service to the field of chemistry. It is traditional for the awardee to give an address at one of the ACS National meetings, and most of these addresses are published in *Chemical & Engineering News*. Given the prominence of the awardees and the ready availability of award addresses, I have used Priestley Medal Award addresses to provide students with an introduction to the recent history of chemistry, as well as exposing them to the many roles chemists play in society apart from their work in the lab. In this talk I will present a brief history of the Priestley Medal and a summary of the range of topics covered by the various awardees. I will conclude with some examples of how I have incorporated Priestley Medal Addresses into the curriculum for a chemistry major.

Luis Montes Biographical Sketch

Luis Montes earned a BS in Chemistry and a BA in Philosophy from New Mexico State University. He then completed his PhD in Inorganic Chemistry under J. J. Lagowski at the University of Texas at Austin. After spending four years in various contingent faculty roles at Oklahoma State University, he joined the UCO Department of Chemistry in 2000. He is a Professor of Chemistry, and has served as Department Chair since 2012. He has taught courses including Introductory Chemistry for non-science majors, General Chemistry I and II for science majors, Organic Chemistry for Life Science major. His upper division courses for chemistry majors include Inorganic Chemistry, Professionalism in Chemistry II, and Nature and Development of Chemistry. His scholarly pursuits include work in the history and philosophy of chemistry and chemical education. His teaching has been recognized with UCO's 2018 Neely Teaching Excellence Award, and his university service has been recognized with UCO's 2012 Vanderford Initiative and 2007 Modeling the Way awards. He served as Chair-Elect/Chair/Past Chair of the ACS Oklahoma section from 2014–2016. In addition to his work in chemistry, he has served as a Peer Reviewer for the Higher Learning Commission since 2012.

OSSEF

Oklahoma State Science and Engineering Fair

26–28 March 2020

Wes Watkins Center

Oklahoma State University, Stillwater, OK

(Bolliger—continued from front page)

nal Chemistry. In July 2016, Dr. Bolliger took up a position as Tenure-Track Assistant Professor in Organic Chemistry at Oklahoma State University where she is currently investigating new methods for heterocycle formation and functionalization.

Jeanne Bolliger has been an active member of the Swiss Chemical Society until 2017. Currently she is a member of the ACS and the Royal Chemical Society (RSC), as well as an affiliate member of IUPAC. While in Cambridge, UK, she was actively involved with the RSC. For example, she attended the IUPAC General Assembly in Busan, Korea, in 2015 as a Young Observer for the RSC, and also participated in the 2017 IUPAC General Assembly in Sao Paulo, Brazil. Dr. Bolliger hopes to assume a similarly active role in the ACS and has with her scientifically diverse background a unique view on the various areas of chemistry.



CHEMISTRY OLYMPIAD

2020 Calendar

- March 1–31 — Local Section Competitions
- April 18–26 — National Exam (exact date TBA)
- TBD — Study Camp
- July 6–15 — 52th IChO Istanbul, Turkey

Contact Reza Latifi for more information

reza.latifi@okstate.edu 405.744.4330

If your school has not participated before please contact Reza so he knows that you are interested and has good contact information.

Chemists Celebrate Earth Week 2020

Apr 19–25

Protecting Our Planet through Chemistry

SOLICITING NOMINATIONS

Oklahoma Section Awards for Undergraduate Students

- The *Roger Baldwin Graduate Student Award* provides \$500 for students entering graduate school in chemistry or a chemistry related field. The application deadline is May 1st every year.
- The *Terrill Smith Travel Award* is a grant of up to \$600 for travel to present a paper or poster at a national or regional ACS meeting. The application deadline is 4 weeks prior to the meeting start date.

For more information and forms please visit the web site:

<http://oklahoma.sites.acs.org/undergraduateawards.htm>

—Chuck Rice (Awards Committee)



Collecting Historical Documents of the Oklahoma ACS Section

This is a request for your help.

The Oklahoma Section of the ACS is now over 100 years old. Our centennial year was 2019, as you are no doubt aware. We would like to make historical materials available electronically to the membership. This will help make the information readily available to members and to ensure its preservation.

We are writing to ask for your help. Can you donate or lend any of these materials for this project?

- newsletters
- issues of *The Vapor Pressure*
- meeting flyers or announcements
- copies of the minutes and our annual reports
- programs of the state-wide meetings (variously known as the all-state, trisectional, tetrasectional, and pentasectional meetings)
- anything else that may be of interest

If you have interesting stories regarding past happenings regarding chemistry in Oklahoma or the Section, we would appreciate if you could share those with us.

Please contact me directly if you can help, or if you know a colleague with a trove of section materials--please forward this request to them. I look forward to hearing from you.

—Lloyd A Bumm, Secretary, OK ACS

National Chemistry Week 2020

Oct 18–24

Theme: *Sticking with Chemistry*

65TH ANNUAL PENTASECTIONAL MEETING

Friday & Saturday 18 Apr 2020

Pittsburg State University

Pittsburg, KS

Hosted by the MO-KAN-OK Section

2020 Oklahoma ACS Section Officers and Standing Committee Chairs

Stephanie L. Skiles	Chair
Jeanne L. Bolliger	Chair-Elect
Naga Rama Kothapalli	Immediate Past Chair
Lloyd A. Bumm	Secretary + interim Newsletter ed.
Jason Wickham	Treasurer
Allen Applett	Councilor + Nominations Com.
Nicholas F. Materer	Alternate Councilor
Charles V. Rice	Awards Com.
Reza Latifi	Chemistry Olympiad Com.
John Michael Ferguson	National Chemistry Week Com.
Cheryl Frech	Public Relations
Nicholas F. Materer	Web Master



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Oklahoma ACS Calendar of Events.

Visit the Oklahoma ACS WWW site for the latest information.

<http://oklahoma.sites.acs.org/>



OK ACS web
QR code

CALENDAR OF EVENTS

2020 Dates & Speakers

Feb 27 (Thu) UCO, Luis D. Montes, *Dept of Chemistry, UCO, Edmond, OK*

PRIESTLEY MEDAL ADDRESSES

Tools for Teaching about the Recent History of Chemistry

Mar 26-28 OSU, Oklahoma State Science and Engineering Fair
Oklahoma State University, Stillwater, OK

Apr 18 (Sat) 65th Pentasectional Meeting
Pittsburg State University, Pittsburg, KS

Apr 19-25 Chemists Celebrate Earth Week
THEME: Protecting Our Planet through Chemistry

Apr 30 (Thu) OCU, Awards Banquet
Gary Christian, *University of Washington, Seattle, WA*

Sep (Fri) OBU, Family Night

Oct (14-17) SWRM/SERMACS 2020
New Orleans, LA

Oct (18-24) National Chemistry Week
THEME: Sticking with Chemistry

Oct (21-23) MWRM 2020
Springfield, MO

Oct (Sat) NCW Event at Science Museum Oklahoma

2023 SWRM 2023

Oklahoma City, OK

hosted by the Oklahoma Section

