



# NEWSLETTER

## Oklahoma Section American Chemical Society

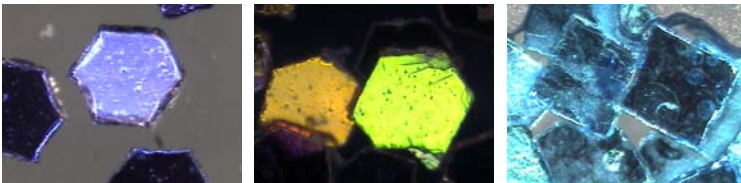
Volume 17 Number 3

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

September 2011

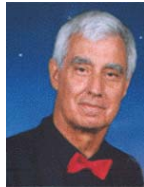
Oklahoma ACS Family Night Friday 16 Sep 2011

### GLITTER as Forensic Evidence



### Bob Blackledge

Naval Criminal Investigative Service  
(RFL-Retired) Forensics



Locard's Exchange Principle states, "Every contact leaves a trace." When these traces involve an exchange between a criminal, victim, and crime scene, there is the potential that they may help to establish a common association. Well known examples of such trace or associative evidence are hairs, fibers, paint chips, and broken glass fragments. Although not as well known, we will see that in many respects "glitter" is the ideal contact trace. Today, glitter may be found in every possible variation of cosmetic products. Glitter is also in widespread use as material for arts and crafts; it is used as

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

Oklahoma Baptist University, Shawnee, OK

map: <http://www.okbu.edu>

6:00 pm Social Hour & Picnic

Wood Science Building [indoor/outdoor]  
lawn games—volleyball & croquet

7:30 pm Presentation

Wood Science Building - large lecture hall



OBU map  
QR code

Dinner Reservation Information

Cost

Picnic Menu

Hamburgers & hotdogs  
potato chips  
pickles  
cookies  
soft drinks

\$8 members  
\$5 students  
\$3 children under 12

RSVP Deadline

Monday 12 Sep 5 pm  
Contact: Shawna York  
405-878-2028

[Shawna.York@okbu.edu](mailto:Shawna.York@okbu.edu)

RSVP is NOT required to attend the presentation.

### CELEBRATING THE CENTENNIAL OF

### MARIE CURIE'S NOBEL PRIZE IN CHEMISTRY

### Madame Curie Screening at OKC MOA

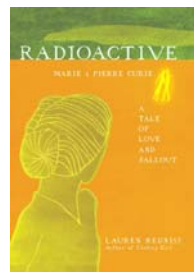
Wednesday 19:30 02 Nov 2011. OKC Museum of Art  
Madame Curie, 1943 MGM. Greer Garson & Walter Pigeon. Despite himself, accomplished physicist and avowed bachelor Pierre Curie falls for brilliant student Marie, and together they embark on the discovery of radium. Nominated for 7 Oscars in 1944.



movie trailer  
QR code

### Lauren Redniss to Speak at UCO

Thursday 03 Nov 2011. Time and place TBD  
Lauren Redniss is the author of *Radioactive: Marie and Pierre Curie - A Tale of Love and Fallout*, a graphic biography of the Curies. *Radioactive* is the visual journey into the life of Marie Curie, as told through the dazzling collage style of acclaimed author and artist Lauren Redniss. A brilliant visual storyteller, Redniss has hand-designed more than 100 color collages to tell Curie's story, fascinating in its scientific significance and its sometimes whimsical, sometimes haunting mix of romance and intrigue. Bringing together archival photos, images, and clippings with dazzling line drawings and a compelling narrative, *Radioactive* is far more than just an art book or a graphic novel: It is a stunning visual biography and a true work of art.



## OK ACS OFFICER NOMINATIONS

We are seeking nominations for 3 positions

**Chair Elect** ··· (3 year term—chair elect/chair/past chair)

**Secretary** ..... (2 year term)

**Alternate Councilor** ..... (3 year term)

### Please send nominations to

Amanda Nichols (Section Chair) [amanda.nichols@oc.edu](mailto:amanda.nichols@oc.edu)  
or Allen Apblett (Nominations chair) [allen.apblett@okstate.edu](mailto:allen.apblett@okstate.edu)

**get involved • make a difference**

**Election schedule**

**Nominations due 20 Oct • Ballot mailing 22 Oct**

**Cast Ballots due on or before 05 Nov**

## Councilor's Report from the Spring/Fall 2011 National Conference

Allen W. Apblett (Oklahoma Section Councilor)

My report from the spring ACS council meeting was not sent out so this report combines pertinent news and information from both the spring and fall meetings.

In the area of elections, the Council selected two candidates for 2012 President-Elect. Since there were no candidates selected by petition, only these two candidates will stand for election in the Fall National Election.

- Dr. Dennis Chamot, Associate Executive Director, Division of Engineering Physical Sciences, National Research Council of the National Academy of Sciences, Washington, DC.
- Dr. Marinda Li Wu, Founder and President, Science is Fun!, Orinda, CA.

The Candidates for Directors-at-Large, 2012-2014 are:

- Dr. Ken B. Anderson, Professor of Geochemistry, Southern Illinois University at Carbondale, IL and CEO, Thermaquatica Inc., Carbondale, IL.
- Dr. William F. Carroll, Jr., Vice President, Industry Issues, Occidental Chemical Corporation, Dallas, TX.
- Dr. Charles E. Kolb, President/CEO Aerodyne Research, Inc. Billerica, MA.
- Dr. Barbara A. Sawrey, Associate Vice Chancellor, Undergraduate Education, University of California, San Diego, CA.

In the area of finances, the ACS is doing well and is projected to finish the year with \$5 million higher net revenue than projected. The 2012 Membership dues will be \$148 while the registration fee for the National Conference and Exhibitions will be \$360.

In an action that is close to home, the Council voted to change the name of the Northeast Oklahoma Section to the Northern Oklahoma Section to reflect the recent merger of the *North Central Oklahoma Section* and its territories into the *Northeast Oklahoma Section*. Another change to the ACS was the granting of full division status to the previously probationary *Division of Catalysis Science and Technology*. After a lively discussion that mostly concerned the name of the new division, the Council voted 53% - 47% to dissolve the *Division of Petroleum Chemistry* and to combine its assets and members with those of the *Division of Fuel Chemistry* under the new name of the *Division of Energy and Fuels*, effective December 31, 2011.

The Council received one amendment (petition) to the ACS Constitution and Bylaws for action: The Petition on Position Statements. The Council voted to approve the Petition on Position Statements, which allows for clear and consistent position development for the Society. The petition assures that the Board of Directors has sole authority in issuing position statements that establish policy for the full Society; and that Society bodies other than the Board may issue statements on issues that fall solely in their jurisdiction so long as they do not impair other Society bodies' ability to do the same. The Board of Directors will vote within 90 days on whether to ratify the approved petition.

In the next newsletter, I will report information concerning exciting new (and usefull!) ACS membership benefits.

(continued from front page)

decorative material on items of apparel, and it is incorporated in numerous clear plastic commercial products. This presentation will tell you what glitter is; how it is made; the many ways it varies; how it may be found and collected from crime scenes and evidence items; and the many ways it can be characterized and distinguished from other glitter samples. The talk will conclude with several brief case histories (including photomicrographs and infrared spectra from the actual evidence) where glitter was important associative evidence.

### Bob Blackledge Biographical Sketch

Robert (Bob) D. Blackledge received his BS (chem.) from The Citadel in 1960 and his MS (chem.) from the University of Georgia in 1962. Starting with the Florida Department of Law Enforcement's Tallahassee Crime Lab in 1971, Bob worked in forensic science for over thirty years. Stops along the way included eleven years with the U.S. Army Criminal Investigation Laboratory-Europe, back during the Cold War when there was a crime lab in Frankfurt, Germany. Bob's final stint was as the Senior Chemist with the Naval Criminal Investigative Service Regional Forensic Laboratory-San Diego from 1989 to 2006. The author or co-author of roughly fifty journal articles and book chapters, his interests are wide-ranging but his special passion is trace evidence. Reports of his research have been published in the FBI's Law Enforcement Bulletin, the FBI's Crime Laboratory Digest, the Journal of Forensic Sciences, Science & Justice, Forensic Science International, Forensic Science Review, Microgram Journal, and Analytica Chimica Acta. He is the editor for, "Forensic Analysis on the Cutting Edge: New Methods for Trace Evidence Analysis", published by Wiley-Interscience in Aug. 2007.

## ACS SEEKING TO HELP UNEMPLOYED CHEMISTS

Allen W. Apblett, Councilor

At a recent open meeting of the ACS's Board of Directors I learned about a number of programs and benefits a number of which are new, that are designed to help those of our membership who are looking for a job. I am making a handout concerning these available on the Oklahoma Section website (*Employment in the Chemical Enterprise*, under the *Jobs* tab). As part of the "Paying It Forward Initiative" members are helping members to get back to work by sharing job information and advice. As part of this effort, your local section is planning to post jobs in this newsletter and on our website that are available in Oklahoma and the surrounding states. Therefore, I encourage you to E-mail me ([allen.apblett@okstate.edu](mailto:allen.apblett@okstate.edu)) any jobs that might be available at universities of businesses that we could list. Please indicate contact information and a closing date so we can remove outdated information.

## Does ACS have your current email address?

### Quick facts

- The Oklahoma section of the ACS membership is 520
- Only 484 of you have submitted email addresses to the ACS.
- Of the 484, approximately 25 addresses are undeliverable.

## 57TH ANNUAL PENTASECTIONAL MEETING

Saturday 17 Mar 2012

Cameron University  
Lawton, OK

date is tentative

Hosted by the Wichita-Falls Duncan Section

## SWRM 2011

### 67th Southwest Regional Meeting 9–12 November 2011

Hosted by The Central Texas Section (Austin, TX)



## NATIONAL CHEMISTRY WEEK

16–22 OCTOBER

— this year's theme —

*Chemistry—Our Health, Our Future!*

DID YOU KNOW?

THE OKLAHOMA SECTION WAS CHARTERED IN 1919

## Oklahoma Chemist Award 2012 Call for Nominations

Five (5) copies of a single nomination should be sent no later than **28 January 2012** to:

Dr. K. Darrell Berlin  
Chair, Oklahoma Chemist Awards Committee  
Department of Chemistry  
Oklahoma State University  
Stillwater, OK 74078  
(405) 744-5950  
[kenneth.d.berlin@okstate.edu](mailto:kenneth.d.berlin@okstate.edu)

### Criteria and Guidelines for the Preparation of the Nomination and for Selection of the Recipient

1. A nomination letter for the candidate by a colleague, friend, etc.
2. A complete, up-to-date resume of the candidate.
3. A two-page "highlight" of the candidate's major accomplishments.
4. Five (5) letters of support for the nominee.
  - a) Two (2) letters from colleagues at the candidate's place of employment.
  - b) Three (3) letters from outside the candidate's place of employment.
 Letters from individuals with expertise in the candidate's field are especially welcomed.
5. Special information on the candidate is also solicited, especially as to how the candidate has advanced chemistry in the state of Oklahoma.
6. Candidates may be involved in research or in chemical education within the state.

### 2011 Oklahoma ACS Section Officers and Standing Committee Chairs

Amanda J. Nichols	Chair
Donna J. Nelson	Chair Elect + Alternate Councilor
Nicholas F. Materer	Immediate Past Chair
Lloyd A. Bumm	Secretary + interim Newsletter ed.
Jason Wickham	Treasurer
Allen Appleby	Councilor + Nominations Com.
Charles V. Rice	Awards Com.
Nathan Malmberg	Chemistry Olympiad Com.
Valerie Ferguson	National Chemistry Week Com.
Cheryl Frech	Public Relations
Jim Dechter	Web Master

Our Website has recently changed. Check out the new site!

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



L. A. Bumm  
Oklahoma Section of the ACS  
Homer L Dodge Dept of Physics & Astronomy  
The University of Oklahoma  
440 W Brooks St  
Norman, OK 73019-2061

Nonprofit Organization  
U.S. Postage Paid  
The University of Oklahoma  
Norman, OK  
Permit No. 88

## Oklahoma ACS 2011 Calendar of Events.

Visit the Oklahoma ACS WWW site for the latest information.

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



OK ACS web  
QR code

**Sep 16 (Fri)** local section meeting and family night  
Oklahoma Baptist University, Shawnee, OK  
speaker: Bob Blackledge, *Naval Criminal Investigative Service (RFL-Retired)*  
*Forensics*

**Oct 18 (Tue)** local section meeting  
Stillwater, OK  
speaker: Julia Brumaghim, *Clemson University*  
*Antioxidant Prevention of DNA Damage and Cell Death*

**Nov 02 (Wed)** Madame Curie screening at OKC MOA  
**Nov 03 (Thu)** Lauren Redniss, UCO

**Nov 08 (Tue)** local section meeting  
East Central University, Ada, OK  
speaker: Wayne Jones, *State University of New York at Binghamton*  
*Nanotechnology*

**Nov (9-12)** SWRM 2011  
Austin, TX

### 2012 Tentative Speakers

Wilfred Niels Arnold, *Dept of Biochemistry and Molecular Biology, University of Kansas Medical Center*

Dale Teeters, *Department of Chemistry, University of Tulsa*

Kacey Cliburn, *Sr Criminologist, Toxicology Div, OSBI*  
*Forensic Toxicology: The Good, the Bad, the Ugly*

Victor H Hutchison, *Department of Zoology, University of Oklahoma*

Clyde Snow, *Forensic Anthropology*

**2019** Oklahoma Section Centennial