



# **Chemical Bond**

**Volume 59  
Number 3  
April 2008**

**St. Louis Section, American Chemical Society**

**St. Louis ACS Section Award Recipient 2008  
Dr. Shelley D. Minter**



## St. Louis Award 2008

The Saint Louis Award winner is Shelley D. Minteer, Ph.D., Associate Professor of Chemistry, Saint Louis University. Dr. Shelley D. Minteer received her B.S. in Chemistry at Western Illinois University in 1995. She then went to University of Iowa to work on her Ph.D. in Analytical Chemistry under the direction of Dr. Johna Leddy. Her graduate work focused on magnetic field effects on electrochemical systems with specific emphasis on magnetically modified electrodes for enhanced electron transfer kinetics.

After graduating in 2000, she joined the faculty of the Department of Chemistry at Saint Louis University as an Assistant Professor. She later received a dual appointment in the Department of Biomedical Engineering. At Saint Louis University, her research program has focused on the development of enzyme immobilization membranes for increased stability of biosensor and biofuel cell electrodes, along with incorporating direct and mediated bioelectrocatalysis into anodes and cathodes. She has recently expanded his bioelectrocatalysis work beyond enzymes to mitochondria and is currently working on developing mitochondria-based biofuel cells and self powered sensors. She co-founded Akermin, Inc. with her former graduate student, Nick Akers, in 2003 to commercialize this technology. She was promoted to Associate Professor of Chemistry at Saint Louis University in 2005. She has been the recipient of the Missouri Inventor of the Year Award (2006), Academy of Science of St. Louis Innovation Award (2005), Saint Louis University Award for Excellence in Teaching (2004), Society of Electroanalytical Chemists Young Investigator Award (2008), and the Saint Louis University Student Government Association Faculty Excellence Award (2004 and 2006).

*check the local section website (<http://www.umsl.edu/~umslacs/>)  
for information regarding the St. Louis Award  
Symposium*

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# Meetings & Seminars

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## Washington University Department of Chemistry

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All seminars are held at 4:00 pm  
in Room 311 McMillen Hall

Tuesday, Apr 1st

C.-Y. Mou  
National Taiwan University  
Department of Chemistry

Thursday, Apr 3rd

Eike Bauer  
University of Missouri, St. Louis  
Department of Chemistry and Bio-  
chemistry

Thursday, Apr 10th

Donald H. Berry  
University of Pennsylvania  
Department of Chemistry

Thursday, Apr 17th

Jon Antilla  
University of South Florida  
Department of Chemistry

Thursday, Apr 24th

Ram Sheshadri  
Department of Materials and  
Materials Research Laboratory  
UC Santa Barbara

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## St. Louis University Department of Chemistry

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Time: Fridays at 4:00 pm  
Location: Room 12, Monsanto Hall

Friday, April 4

Professor Brian Lamp  
Truman State University  
*Smalltime Science?*  
*The Design and Characterization of*  
*Electrode Surfaces in an*  
*Undergraduate Setting*  
Martin

Wed. April 16

Marcus Award Competition

Friday, April 18

Professor Erik Herzog  
Washington University  
*Daily timekeeping by a network of*  
*clocks in the brain*  
Kiss

Friday, April 25

Dr. Kevin King  
Pfizer  
*Of Mice and Men and Hamster*  
*Ovaries – an Overview of the*  
*Development of a Therapeutic*  
*Biomolecule*  
Martin



## Department of Chemistry & Biochemistry University of Missouri- St. Louis Colloquia – April 2008

Monday ACS Meeting  
April 7

Thursday Karl J. Hale  
April 10 Queen's University, Belfast, Northern Ireland  
\*5:30 p.m. "Total Synthesis of the Antitumour Agents Kettapeptin and  
Azinothricin and Allied Chemical Genomics Studies"

Monday Frank Momamy  
April 14 USDA  
"Modeling: Cutting Edge Tools for the Study of Carbohydrates"

Monday Janet Morrow  
April 21 The State University of New York, University at Buffalo  
"Structure Specific Recognition and Cleavage of RNA by  
Metal Ion Complexes"

Monday Distinguished Alumni Lecture  
April 28 Timothy T. Wenzel  
Dow Chemical Company, Midland, Michigan  
"New Polymers from Old Monomers"

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The St. Louis Section-ACS Board of Directors meets the second Thursday of the month. Section members are encouraged to attend the next meeting on April 13th at the Glen Echo Country Club. Please contact Keith Stine at 314-516-5346 (kstine@umsl.edu) for more information, or visit the local section website

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## **MARCUS AWARD TO BE HELD AT SLU**

The 2008 Leopold Marcus Award competition will be held Wednesday, April 16 at 4:00 p.m. in Room 171 of Busch Student Center on the campus of Saint Louis University. It is administered by the Department of Chemistry at Saint Louis University and the St. Louis Section of the American Chemical Society. The competition consists of presentations based on the undergraduate research projects of senior chemistry majors at Saint Louis University. The winner of the award is determined by vote of the professional chemists in the audience. All ACS members are invited to attend. Refreshments will be available after the competition. For further information, contact Bruce Kowert at (314) 977-2837 or [kowertba@slu.edu](mailto:kowertba@slu.edu).

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## Chemical Progress Week 2008 Schedule of Events

Friday, April 18:

### **Undergraduate Research Symposium**

University of Missouri – Saint Louis, Benton Hall 3pm -5pm

Mike Nichols (email: nicholsmic@umsl.edu, 314-516-7345)

or Eike Bauer (email : bauere@umsl.edu, 314-516-5340)

Monday, April 21:

### **Awards Night**

Honors winners of the:

High School Chemistry Contest

Leopold Marcus Award

High School Teaching Award

Chemical Science & Technology Award

Outstanding Junior Chemistry Students at area colleges and universities

Kemoll's Restaurant, One Metropolitan Square, St. Louis

\$25.00/person

5:30 pm - Social Hour

6:30 pm - Dinner

7:30 pm - Program

Contact: Samir El-Antably (314-664-5522)

Tuesday, April 22:

### **ADACIOM Luncheon**

Sunset Country Club

Speaker: TBA

Contact: Jane Benet' (jane@drumtechus.com)

Friday, April 25:

### **Saint Louis Award Symposium**

TBA

Saturday, April 26:

### **Saint Louis Award Banquet**

Honoring the recipient of the 2008 Saint Louis Award

(winner TBA)

Kemoll's Restaurant, One Metropolitan Square, St. Louis

\$55.00/person

6:00 pm - Cocktails

7:00 pm - Banquet

8:00 pm - Program

Contact Samir El-Antably (314-664-5522)



## **Other Chemical Progress Week Events:**

### **Chemistry Career Day**

University of Missouri – Saint Louis

Date: TBA

Contact: Jim O'Brien (obrien@jinx.umsl.edu, 314-516-5717)

or Keith Stine (kstine@umsl.edu, 314-516-5346)

Saturday, April 19:

### **Chemistry Olympiad**

University of Missouri – Saint Louis

Contact: Hal Harris (hharris@umsl.edu, 314-516-5344)

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## ***ACS ST. LOUIS SECTION*** ***Undergraduate Research Symposium***

University of Missouri-St. Louis  
Department of Chemistry and Biochemistry  
325 Benton Hall  
Friday, April 18, 2008 3:00-5:00 PM

Who is eligible?

All undergraduate researchers in the St. Louis ACS section

Presentation Type: Research Poster

Refreshments provided, gifts (swag) to all  
undergraduate participants

Please submit intent with poster titles by April 11 to:

Michael R. Nichols, PhD  
Assistant Professor, UM-St. Louis  
nicholsmic@umsl.edu, 314-516-7345

## Chemical Progress Week 2008

Please send reservations to:

Samir El-Antably

P. O. Box 50168

Saint Louis, MO 63105

(314) 664-5522

Make checks payable to:

Saint Louis Section – ACS

Please make your reservations by April 14

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### Awards Night Dinner Reservation

Date: Monday, April 21

Location: Kemoll's

5:30 pm Cocktails, 6:30 pm Dinner, 7:30 pm Program

Name \_\_\_\_\_

Number attending x \$25 = Amount Remitted

\_\_\_\_\_

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### Saint Louis Award Banquet Reservation

Date: Saturday, April 26

Location: Kemoll's

6:00 pm Cocktails, 7:00 pm Dinner, 8:00 pm Program

Name \_\_\_\_\_

Number attending x \$55 = Amount remitted

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# **St. Louis Section-ACS**

## **Request for Nominations For 2008 Officers**

The St. Louis Section of the American Chemical Society requests nominations for officers, directors, and councilors to stand for election in the Fall of 2008. If you would like to nominate someone for any or all of these offices, please fill in this nomination ballot and mail it, postmarked no later than June 15, 2008 to:

Dr. Jeffrey Cornelius  
Department of Chemistry  
Principia College  
1 Maybeck Place  
Elsah, IL 62028

You may also e-mail your nominations. While it will be difficult to assure your anonymity as a nominator, your identity will be removed from the e-mail before it is forwarded to the Nominating Committee. Send e-mail nominations to Jeffrey Cornelius ([Jeff.cornelius@principia.edu](mailto:Jeff.cornelius@principia.edu))

Nominating Ballot  
St. Louis Section-ACS  
2009 Officers

**Chair-Elect** \_\_\_\_\_

**Secretary** \_\_\_\_\_

**Treasurer** \_\_\_\_\_

**Directors (up to three)**

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**Councilor** \_\_\_\_\_

