



NEWSLETTER

Oklahoma Section American Chemical Society

Volume 13 Number 1

February 1, 2007

Interpenetrating Polymer Networks

Wednesday – February 21, 2007
Student Union Ballroom
Southwestern Oklahoma State University
State Street/Campus Drive
[Union on Left Side of State Street]
Weatherford OK 73096

Dr. L. H. Les Sperling

**Center for Advanced Materials & Nanotechnology
Lehigh University
610.758.3845
5 East Packer Avenue
Bethlehem PA 18015-3194**

Interpenetrating polymer networks are composed of two or more polymers, in network form, that were either synthesized or cross-linked in the immediate presence of the other[s]. The synthesis, morphology, and mechanical behavior of these new materials will be described. Industrial applications, such as sound and vibration damping and applications to medicine or pharmacy, will also be discussed



[Reservation Information on Page 2]

Schedule:

6:00 PM Social Hour: Student Union Ballroom
Southwestern Oklahoma State University

7:00 PM Dinner: Student Union Ballroom
Southwestern Oklahoma State University

8:00 PM Speaker: Dr. L. H. Les Sperling

Menu: Dinner: Caribbean dinner salad, steak tenderloin and grilled chicken over seasoned rice, dessert, coffee, tea and water.

Cost: \$20.00-ACS Member; \$10.00-ACS Student Affiliate.

Deadline: Monday, 02/19/07; 10:00 a.m. Mary Lou Scouten 580.774.3266 marylou.scouten@swosu.edu

Directions To SWOSU Student Union Building:

From East I-40

Take Weatherford Exit # 82.

Continue W on Main Street thru 2 stop lights.

Turn **right** [North] at State Street – look for building with orange “awning” & “Tunes & Tint”..Continue several blocks N until you reach the campus.

From West I-40

Take Weatherford Exit # 80A.

Follow the curve and go E on Main Street thru two stop lights .

Turn **left** [North] at State Street – look for building on left side of street with orange “awning” & “Tunes & Tint”. Continue several blocks N until you reach the campus.

Dr. L. H. Les Sperling

Dr. Sperling is a professor at Lehigh University, Department of Chemical Engineering and Department of Materials Science and Engineering. He also is director of the Engineering Polymers Laboratory Materials Research Center, director of the Center of Polymer Science and Engineering Polymer Interfaces, and chairman of the Polymer Education Committee. Appointed to the Lehigh faculty in 1967 as assistant professor, he advanced to associate professor in 1973 and full professor in 1976. The area he teaches includes physical polymer science, polymer blends and composites, and polymer interface science. He has written more than 250 refereed publications in polymer science and engineering as well as 14 books. He holds a B.S. in chemistry from the University of Florida [1954] and an M.S. [1957] and PhD [1959] in chemistry from Duke University.

Oklahoma Section Chair - 2007

Barry K. Lavine has been an Associate Professor of Chemistry at Oklahoma State University since 2004 where he both teaches and does research in the area of analytical chemistry. Lavine has published more than 90 papers in chromatography, chemometrics, and chemical sensors and is on the editorial board of several journals [Journal of Chemometrics, Microchemical Journal, and Analytical Letters]. Lavine's research interests which include bioinformatics, chemoinformatics, and interfacial and surface chemistry, encompass many aspects of the application of

computers to chemical analysis including multivariate curve resolution, pattern recognition, and multivariate calibration using genetic algorithms and other evolutionary techniques. Lavine has been a Visiting Professor at Air Force's Center for Environmental Analysis [1995], Universiti Teknologi Malaysia [1997], and University of New Hampshire [2000-2001].

Prior to joining the faculty at OSU, Lavine was a faculty member in the chemistry department at Clarkson University [1986-2004] in Potsdam, New York. While at Clarkson, Lavine served as Vice Chair [1998-2001] and Chair [2001-2004] of the Northern New York Section of ACS. He has also served as General and Program Chair for the Northeast Regional Meeting of the American Chemical Society [1999], Chairman of the ACS Committee for the Analytical Placement Exam [1999-2000], Project Seed Coordinator [2003] and Head of the Chemistry Olympiad (2003) for the Northern New York section.

Thanks To:

Dr. Charles “Chuck” Rice Professor of Chemistry at the University of Oklahoma is the immediate past-chair Oklahoma Section ACS. Chuck's quiet and low key approach to Section duties belied his ability to get whatever job needed to be done at Executive Committee meetings or during other times. Chuck's enthusiasm, dedication and words of encouragement served the Section well during his tenure. **Thank you Chuck for a job well done** as 2006 Chair of the Oklahoma Section ACS. We appreciated your work and efforts in all you did!

2006 Section Election Results

Shawna S. York, Section Chair-Elect, will serve in 2008 starting January 1, 2008. Shawna received her B.S. from Southern Nazarene University and her Ph.D. from the University of Oklahoma. Her doctoral research involved characterization of polyethylene imine polymer electrolytes and model compounds. In 2001, she joined the faculty at Oklahoma Baptist University as assistant professor of chemistry. Since 2002, she's coordinated the National Chemistry Olympiad for the Oklahoma Section.

Kenneth H. Brown – Ken will serve as secretary for two years starting January 1, 2007. Ken was a faculty member since 1973 at Northwestern Oklahoma State University. He taught the General Chemistry course for majors, Analytical Chemistry and Physical Chemistry. His research included the rheology of asphalt roofing materials and some environmental analytical projects. Ken has been a 44 year ACS member and has served as the Oklahoma Section Treasurer for the past 8 years. Ken retired from Northwestern at the end of the Spring 2004 semester. Ken resides in Alva.

Oklahoma Section Website:

Dr. James J. Dechter – is the Section webmaster. Jim is Professor of Chemistry at the University of Central Oklahoma. Jim served as UCO Chemistry Department Chair from 2000-2004. Jim was also Section Chair in 2001.

To post information on the website, contact Jim. 405.974.5435. e-mail: jdechter@ucok.edu
The Oklahoma Section web site: <http://membership.acs.org/O/Oklahoma/Index.htm>.



American Chemical Society

52nd [2007] Oklahoma ACS Pentasectional Meeting

The Northcentral Oklahoma Section would like to announce plans to host the 52nd Pentasectional Meeting of the American Chemical Society's Oklahoma Sections

Date: Saturday March 10, 2007

**Location: ConocoPhillips Complex
1000 South Pine Street
Ponca City Oklahoma**

Program:

Symposia: Symposium sessions will consist of reports of independent research or reviews of topics of interest to industrial, governmental & academic chemists.

Symposia Topics: **100 Years of Chemistry in Oklahoma**
 Ann Nalley – Cameron University
 Donna Nelson – University of Oklahoma

Catalysis in Petroleum Refining
Dr. Uday Turaga – ConocoPhillips Company

Transitioning from Academia to Industry: The Early Years
Dr. Reid Dreber – ConocoPhillips

Chemistry in Forensic Science
David von Minden – University of Central Oklahoma

Problem Solving Through Analytical Chemistry
Frank McEnroe - ConocoPhillips

Production of Fuels and Chemicals from Natural Gas, Carbon or Biomass
Richard G. Mallinson – University of Oklahoma

Special Features: **Ann Nalley** – The 2006 ACS President will present a plenary lecture entitled “One Hundred Years of Chemistry In Oklahoma: An Overview.”

David S. Fleischaker: Secretary of Energy, State of Oklahoma

Oklahoma Chemist Award: Presentation of the 2007 Oklahoma Chemist Award will take place at the Luncheon.

General Papers: Accepting general papers in: Organic, Biochemistry, Analytical, Inorganic, Physical.
Submit abstract to Program Chair.

Poster Session: A poster session accepting submission from all field of chemistry will be held.
Submit abstracts to Program Chair.

Program Chair: Dr. Joe Allison
Research & Development
Conoco Phillips Company
580.767.6656
Joe.D.Allison@conocophillips.com

Registration: Dr. Laura Allison
ConocoPhillips Company
P.O. Box 11267
Ponca City OK 74602-1267
580.767.6730
FAX: 580.767.5151
Email: Laura.A.Allison@conocophillips.com

Student Awards

The Oklahoma Section offers awards for undergraduate students. The **Terrill Smith Travel Award** is for undergraduates to travel to a regional or national ACS meeting to present a paper or poster. Two awards of up to \$600 will be given each year, one for fall and one for spring travel. **The award is in honor of Dr. Terrill [Terry] Smith**, longtime Oklahoma Section officer/councilor. He retired from UCO in 1999. Terry was a strong supporter of undergraduate research and student affiliates at UCO and in the section.

The **Roger Baldwin Graduate School Award** is for undergraduate students who have been accepted to attend graduate school in the chemical sciences. One \$500 award will be presented each spring. **This award honors Dr. Roger Baldwin**, another longtime Oklahoma Section officer who is retired from Kerr McGee Corporation. The section is able to offer these new awards partially due to Roger's persistent fund-raising efforts associated with the Southwest Regional Meeting in 2003.

Applications are available on the website, <http://membership.acs.org/O/Oklahoma/Index.htm>. **For more information, contact Gordon Eggleton, geggleton@sosu.edu.**

Some 2007 Meetings & Dates:

Pentasectional Meeting	Ponca City	March 10, 2007
National Meeting	Chicago	March 25-29, 2007
National Meeting	Boston	August 19-23, 2007
Southwest Regional Meeting	Lubbock	November 4-7, 2007
Midwest Regional Meeting	Kansas City	November 7-10, 2007

February 2007 Section Meeting

Wednesday 21 February, 2007

**Student Union Ballroom
Southwestern Oklahoma State University
State Street/Campus Drive
Weatherford OK 73096 Health Sciences**

Speaker: Dr. L. H. Les Sperling – Lehigh University

Interpenetrating Polymer Networks.



Oklahoma Section ACS
Southwestern Oklahoma
State University
100 Campus Drive
Weatherford OK 73096-3098

Nonprofit Organization
U.S. Postage Paid
Weatherford OK
Permit No. 1092