



# Chemical Bond

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St. Louis Section, American Chemical Society

## Welcome Back!

*If you want to build a ship...*

*don't herd people together to collect wood  
and don't assign them tasks and work,*

*but rather... teach them to long for the  
endless immensity of the sea.*

*- Antoine de Saint-Exupery*

# The Gustavus John Esselen Award

Awarded by the Northeastern Section  
of the American Chemical Society

## CALL FOR NOMINATIONS

The Northeastern Section of the American Chemical Society is pleased to invite nominations of worthy candidates for the Gustavus John Esselen Award for Chemistry in the Public Interest. This award recognizes a chemist for outstanding achievement in scientific and technical work that contributes to the public well-being and has thereby communicated positive values of the chemical profession. The Awardee should be a living resident of the United States or Canada at the time of nomination, and the significance of this work should have become apparent within the five years preceding nomination. The Awardee will deliver an address on the subject of the work for which the honor is being conferred, or for work in progress which is also directed to chemistry in the public interest.

The award was established in 1987 to honor the memory of Gustavus John Esselen, a distinguished member of the Northeastern Section. The first awardees were F. Sherwood Rowland and Mario J. Molina, who subsequently received the Nobel Prize.

TO NOMINATE a candidate, please provide statements from two co-sponsors as well as a brief biography of the candidate, a description of the work which has been recognized as communicating the positive values of the chemistry profession and copies of selected, pertinent articles. Popular news and feature articles should be included as an indication of public interest. Nominations and inquiries should be directed to Dr. Paul Vouros, c/o Karen Piper, 19 Mill Road, Harvard, MA 01451.

NOMINATIONS SHOULD BE POSTED NO LATER THAN  
OCTOBER 15, 2004.

Joint nominations are acceptable. The Committee will review the nominations and the award recipient will be notified by the first of February.

The Esselen Award has no limitations with respect to the chemical field in which the nominees are active. Since its inception, the award has been given to the following chemists:

1987 F. Sherwood Rowland	1995 Howard J. Schaeffer
Mario J. Molina	1996 Roy G. Gordon
1988 Alfred P. Wolf	1997 Rangaswamy Srinivasan
Joann S. Fowler	1998 Kyriacos C. Nicolaou
1989 Carl Djerassi	1999 Robert S. Langer
1990 Thomas J. Dougherty	2000 William A. Pryor
1991 Jerrold Meinwald	2001 Joseph M. DeSimone
Thomas Eisner	2002 Ronald Breslow
1992 Bruce N. Ames	2003 Bruce D. Roth
1993 James G. Anderson	2004 James W. Jorgenson
1994 Kary B. Mullis	

# Chemical Bond

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# Meeting & Seminars

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## Board of Directors

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St. Louis Section–ACS Board of Directors meets on the second Thursday of each month, at the Alumni Center, University of Missouri–St. Louis. Meetings are open to all members, and all are encouraged to attend. Elected officers and chairs of major committees have the right to vote; others in attendance have voice but no vote. If you want to attend the dinner, please contact Bijan Khazai (bkhazai@sentortech.com or 314/497-8629) at least one week prior to the meeting date. The usual cost of dinner is \$15. Members wishing to become active in section activities are welcomed for their first dinner for free, compliments of the section.

**Date:** Sept. 9  
**Social hour:** 5:30 pm  
**Dinner:** 6:30 pm  
**Business meeting:** 7:15 pm  
**Future meetings:** Oct. 14  
Nov. 11

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## Washington University

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Seminars are in McMillen 311 at 4 pm unless otherwise noted. Coffee is available 20 minutes prior to the talk, and refreshments follow. For information, contact:

Amy Walker  
walker@wuchem.wustl.edu  
An up-to-date list of seminars is available at:  
[www.chemistry.wustl.edu/~seminars/seminars.html](http://www.chemistry.wustl.edu/~seminars/seminars.html)

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## University of Missouri-St. Louis

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Seminars are held on Mondays at 4:00 pm in Room 451 Benton Hall unless otherwise specified. Refreshments 15 minutes prior to seminar time.

September 6  
HOLIDAY

September 13  
**Thomas Fischer**  
Florida State University  
*Hydrodynamics and Biomimetics Between Two and Three Dimensions*

September 20  
**Joseph Ackerman**  
Washington University  
*Water Diffusion in Living Systems Quantified by Magnetic Resonance: Remarkable Findings, Easy Questions, Hard Answers*

September 27  
**Peng (George) Wang**  
Ohio State  
*Biosynthesis of Polysaccharides and Glycopharmaceuticals*

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## St. Louis University

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Seminars start at 3:30 pm in Room 204 Macelwane Hall, unless noted otherwise. Refreshments follow. For more information, contact Paul Jelliss, jellissp@slu.edu.

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*Midwest Mass Spec.  
Discussion Group*

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September 28th, 6:30 pm  
Washington University Campus  
McMillen Lab, Room 311

**Richard van Breemen**

University of Illinois

College of Pharmacy

“Applications of ultrafiltration  
mass spectrometry to drug  
discovery and metabolism”

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# *Special Event*



## *The Love and Lore of Chocolate*

The St. Louis Section is having a special event on **Tuesday, November 16th at 7:30 pm**. Dr. Ariel Fenster (McGill University) will present “The Love and Lore of Chocolate”, at the Center of Clayton, meeting rooms B&C, to be followed by a chocolate dessert buffet. YUM!



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## Jackisms

by Jack Bornmann

Summer is nearly over. The kids are back in school. Summer vacations are memories. It is time to get serious. But, I will try to hold onto the summer merriment with the following quips.

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## Letters & More Words

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I recently saw a TV program about the new hybrid cars that have both a gasoline engine and an electrical motor. These cars demonstrate the wise application of the Law of Conservation of energy. In our standard combustion engines we burn fuel to give the car kinetic energy. When we step on the brakes we exchange kinetic energy to abrade the brake matter. In the hybrid cars, the energy of motion is converted into electrical energy when the electric motor is run in reverse and the rotational energy of the wheels is converted into electricity.

One day I asked my wife Sandy if she would be interested in a Ford hybrid car. She replied, "I would be interested if it is a genetically modified (GM) hybrid produced by Monsanto!" How about that ? Now, there is a thought for you. A GM hybrid car produced by Monsanto and sold by Ford!

My wife talks to herself. I thought I would get her a self-phone for Mother's Day.

Sandy and I have been married for fifty years and we agree that marriage is a fine institution . . . for those people who should be in an institution.

A middle-aged couple decided to attend some of the sessions of one of those marriage encounter groups. In the middle of the session the moderator stopped the discussion and directed a question to the husbands in attendance. He asked, "Do you know what your wife's favorite flower is?" The husband leaned toward his wife, smiled and whispered, "I know."

At the end of the session the wife asked her husband, "OK. What is my favorite flower?" He beamed and replied, "Pillsbury All-Purpose Flour!"

Have you heard of The Honeymoon Salad? It is lettuce alone without much dressing.

A man who had just won a big lottery jackpot had an appointment with his dentist. As the dentist was preparing to do some dental repair the man said, "Don't give me a local anesthetic, Doc. I am a rich man and I can afford the imported kind."

The Sisters of Mercy in Australia had a nunnery with a lovely verandah where they took their tea in an afternoon. There was a long grassy lawn that ended at the edge of a wooded area. One afternoon while the Sisters were sitting on the verandah enjoying their tea, one of the Sisters noticed that a koala bear had come out of the forest and was watching them. One Sister said, "We have a guest!" and took a cup of tea about ten yards out into the grass.

The koala appeared every afternoon and every time a Sister would put out a cup of tea. Slowly, the koala began to approach the group. Finally one day, it got to the teacup and drank the tea. This continued for a number of days until one Sister observed that the koala

always licked up the tea leaves that happened to be at the bottom of the cup. From that day on the Sister serving the tea poured tea for all the Sisters using the tea strainer. Then, she swirled the pot and poured a cup without using the strainer. This cup was given to the koala, who enjoyed the tea and leaves very much. *This proves that the koala tea of Mercy is unstrained.*

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## National Chemistry Week's



## Day at the Science Center October 16th

The annual “Day at the Science Center” sponsored by the St. Louis ACS Section as part of National Chemistry Week will be held on Saturday, October 16th from 9:00 am until 4:00 pm. This year’s theme is “Health and Wellness.” In the past we have had many volunteers who have given their time to man tables, do demonstrations, set up displays, and chat with visitors to the Science Center. Anyone interested in volunteering should contact Mike Shaw (michsha@siue.edu) or Eric Malina emailina@siue.edu).

*Pick up*

*rotating*

*Mass-Vac ad*

*from p. 14 of March 2004*

# 2004 St. Louis Section Chemical Technician Award Call for Nominations

The St. Louis Section Chemical Technician Award will be presented to a chemical technician in the St. Louis area who has demonstrated a high degree of professionalism as a chemical technician. Criteria used to judge the award include technical skills, safety and housekeeping, relationship with co-workers, presentations, reliability, communication skills, contribution to team efforts, and additional professional activities. The award will consist of a plaque, a check for \$250.00, dinner for the awardee and a guest at the Chemical Progress Week Awards Night ceremony, and nomination for the National Chemical Technician Award. The award will be presented at the Awards Night Banquet in April of 2005.

A chemical technician is a person whose training includes successful completion of an Associate or Bachelor Degree in chemistry or a chemistry-related curriculum, or the equivalent knowledge gained by experience. The primary work of a chemical technician is conducting experimentation and/or correlating information to assist in the solving of chemical problems.

Letters of nomination must be received by Sue Dudek, Pfizer Corp., mail code T2G, 700 Chesterfield Parkway West Chesterfield, MO 63017 by October 29, 2004. Nominations, including seconding letters, must not exceed six pages. The nominating letters should address each of the criteria above. A current work address, phone number and fax number must be provided for each nominee. Please include an e-mail address if one is available.

Chemical technicians need not be a TECH Division Affiliate or ACS member to be eligible for this award. This award is administered by the St. Louis Section of the American Chemical Society (ACS).

For more information contact Sue Dudek at 314-274-2464,  
FAX 314-274-4426, susan.dudek@pfizer.com

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- Tom Layloff
- Leah & Jim O'Brien
- Shelley Minter
- Jeff Cornelius
- Dennis Loyet
- Lisa Balbes
- Bruce Ritts

*"No duty is more urgent than that of returning THANKS."*  
- *St Ambrose*

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## Science Education Recognized as Security Priority

Proposed legislation in the Senate has made a connection between the need for improved math and science education and our homeland security. The Homeland Security Education Act (S.2299) would direct the Secretary of Education to establish a loan forgiveness program for persons who have obtained undergraduate degrees in science (except social sciences), mathematics, engineering, or specified foreign languages as an incentive to pursue these subjects. The bill, sponsored by Senator Richard Durbin (D-IL), calls for grants to local educational agencies to establish or expand mathematics and science programs, upgrade laboratories, and purchase equipment. It would also provide for a long-term assessment of mathematics and science needs of the national security workforce and the larger federal workforce. To view the text of the entire bill please go to <http://thomas.loc.gov> and type in bill S.2299.

# Nominate a Colleague for the St. Louis Award

The St. Louis Award, sponsored by the Monsanto Company, is presented to an individual who had made outstanding contributions to the profession of chemistry and demonstrated potential to further the advancement of the chemical profession. The award, consisting of a \$1,500 honorarium and a plaque, is presented at the St. Louis Award Banquet, the final event of Chemical Progress Week in April.

Please help the Awards Committee identify outstanding chemists in the St. Louis Section by submitting your nominations to the St. Louis Award Chair. The nominations should include a nominating letter, two or more seconding letters from individuals who have had a close professional affiliation with the nominee, a brief biography, a description of the nominee's accomplishments, and a list of publication and patents.

At the time of the nomination, the nominee must not have previously received the Midwest Award or any national ACS-sponsored award. The nominee must be a member or affiliate of the St. Louis Section of the ACS. The deadline for nomination packets to be received is December 10, 2004. Please send nominations and inquires to:

Dr. Joseph Ackerman  
St. Louis Award Chariman  
Department of Chemistry  
Campus Box 1134  
Washinton University  
1 Brookings Drive  
St. Louis, MO 63130-4899  
Phone: 1-314-935-6593  
FAX: 1-314-935-4481  
ackerman@wuchem.wustl.edu

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