



Chemical Bond

Volume 59
Number 6
October 2008

St. Louis Section, American Chemical Society



**2008 Midwest Award Winner
Professor Daryle H. Busch**



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**Don't forget to vote for your
2009 Local Section officers.
Ballots and bios are
included in this issue.**

Chemical Bond

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NO. 6

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Meetings & Seminars

St. Louis Section—ACS Board of Directors meets on the second Thursday of each month, at the Glen Echo Country Club (map available on website). 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 Keith Stine, (314) 516-5346, kstine@umsl.edu at least one week prior to the meeting date. The cost of dinner is \$24. Members wishing to become active in section activities are welcomed to their first dinner for free, compliments of the section.

Date: Oct. 9

Social hour: 5:30 pm

Dinner: 6:30 pm

Business Meeting will start during dinner.

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

Monday
October 6

Rob Coalson
University of Pittsburgh
"Computing Ion Permeation through Protein Channels"

Monday
October 13

SonBinh Nguyen
Integrated Science Program
Northwestern University
"Aluminum-Catalyzed Oxidation-Reduction of C-O/C=O bonds—Modern Applications Made Possible via Mechanistic Investigations"

Monday
October 20

Martin Pelikan
Missouri Estimation of Distribution Algorithms Laboratory
University of Missouri-St. Louis
"Optimization via Probabilistic Modeling: Solving broad classes of hard problems quickly, accurately, and reliably"

Friday,
October 24
3:30 p.m.

Roberta L. Farrell
Department of Biological Sciences
The University of Waikato, Hamilton, New Zealand
"Science in Antarctica: Studying the Historic Huts of the Heroic Era of Antarctic Exploration"
"To the Ice and back again, an UMSL Alumna's Holidays"

Monday
October 27

Byron Caughey
Biochemistry Section, Laboratory of Persistent Viral Diseases
NIH/NIAID Rocky Mountain Laboratories
"Getting a Grip on Prions"

Please check the website at <http://www.umsl.edu/chemistry>

Coffee: 3:45 PM, Seminar: 4:00 PM

Room 451 Benton Hall

Reminder: Call for Nominations — High School Chemistry Teaching Award

The St. Louis Section of the American Chemical Society is seeking nominations for the High School Chemistry Teaching Award, sponsored by the St. Louis Section, for the 2007-2008 school year. The award winner will receive a \$500 check and a plaque, presented at an awards dinner and program next April. To submit a nomination, see the local section website for nomination packet requirements. Please send nomination packets by November 15, 2008, to:

Virginia Kirwin

High School Teaching Award Subcommittee

974 Century Oaks Drive

Manchester, MO 63021

636-225-5513

vkirwin@earthlink.net



Join us for
Chemistry Career Night
Wednesday, September 17, 2008
6:00 – 8:00 p.m.

Washington University, Danforth Campus
Lab Sciences Building, Room 300
& Rettner Gallery
Admission and Activities are FREE!

Event will include:

- Brief presentations from expert panel of local chemists
- Industry, government, and academia represented
- Question and answer session
- Enjoy free food and networking!

Expert Panel:

- Dr. Lucinda Buhse*, Director, FDA
- Dr. Rajesh Devrash*, Senior Director, Pfizer
- Mr. Keith Hampton*, Sr. Recruiter, OnAssignment
- Dr. Lloyd Hill*, Director, R & D, Covidien
- Dr. Ryan McCulla*, Dept. of Chem., SLU



Younger Chemists Committee
ACS STL

For questions contact: Arindam.Roy@Covidien.com

2008 ACS Midwest Award Citation for Professor Daryle H. Busch

Daryle H. Busch, the recipient of the 2008 Midwest Regional American Chemical Society Award, was born in the small town of Carterville, IL, population 2800. Upon graduation from high school in 1946, he enlisted and served in the US Army for about 2 years, most of the time as chief clerk for the Surgeon General, Far East Command, in MacArthur's headquarters, in Tokyo Japan. After his honorable discharge he attended Southern Illinois University, graduating after just three years (1951). He then attended graduate school at the University of Illinois, where he worked with Professor John C. Bailar, Jr., one of the true pioneers of inorganic chemistry. He received the M. S. degree in 1952 and Ph. D. in 1954. While a graduate student he edited a volume of *Inorganic Synthesis* and J. C. Bailar, Jr.'s monograph, *Chemistry of the Coordination Compounds*. Daryle Busch's independent career began in 1954 as a faculty member at The Ohio State University where he rose through the ranks from Assistant Professor to Presidential Professor in 1987. In 1988 he relocated to the University of Kansas as the Roy A. Roberts Distinguished Professor of Chemistry, a position he still holds.

Daryle Busch's research transcends basic transition metal coordination chemistry. He is considered by many as the father of macrocyclic ligand chemistry, which materialized from his creation of the concept of molecular template effects in the mid-1950s. He was a founder of the subject of ligand reactions and an early researcher and proponent of bioinorganic chemistry. In 1970, he first described the phenomenon labeled by others as preorganization. In Kansas Professor Busch not only expanded on his early seminal contributions to macrocyclic chemistry but also shed light on complex molecular interactions. He has shown that that molecular organization (or as he coins it, intermolecular organization) is able to "knit and weave" molecular fabrics from molecules, chelates and cages. He also continues to make contributions to industrial fields, as exemplified by his work using different condensed media for reactions that can ultimately have practical purpose. In that regard, he currently serves as Deputy Director of the National Science Foundation, Engineering Research Center "Center for Environmentally In that regard, he currently serves as Deputy Director of the National Science Foundation, Engineering Research Center "Center for Environmentally Beneficial Catalysis."

His contributions continue to accumulate over all facets of science, including education and leadership. During his career, Professor Busch has made major contributions to university education, having taught thousands of undergraduates, guided over 200 Ph.D. and postdoctoral researchers, written three text books, and numerous book chapters, articles, and reviews, for a total of well over 400 publications and over a dozen patents. His leadership is exemplified by his serving as President of the American Chemical Society in 2000 and on the Board of Directors from 1999 through 2001. He also led the Commission on Nomenclature of Inorganic Chemistry and served as Secretary of the Inorganic Division of the International Union of Pure and Applied Chemistry, and as Chair of the Chemistry Division of the American Association for the Advancement of Chemistry. While ACS president, Daryle brought the Green Chemistry Institute into the ACS and oversaw the establishment of the rules by which it operates. During his career he has served as consultant to a number of industrial companies, including Dupont, Monsanto, 3M, Air Products and Chemicals, and Procter and Gamble.

In summary, Daryle has made many seminal contributions in understanding basic chemical reactivity, in education, and in leadership. His research spans the fields of homogeneous catalysis, bioinorganic and supramolecular chemistry, as well environmentally benign catalysis. Professor Daryle H. Busch is truly an eminent scholar.

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## **Inaugural Science Café**

The Saint Louis Section will be holding its very first Science Café on Wednesday, October 22nd.

Meet in the Crown Room at Schafly's Bottleworks, 7260 Southwest Avenue (at Manchester), Maplewood, MO 63143.  
Cash bar begins at 6 pm, Café meeting at 7 pm.

### **Science for Future Presidents:**

Many of the most critical challenges for the next president involve science, from energy policy to biotechnology and terrorism to global warming. What does the next president need to know about science and how should voters weigh science? What if science issues were the only ones? The St Louis Section—ACS sponsors its first Science Café event: a discussion of science in the election. A short talk by Professor Hal Harris, a physical chemist at the University of Missouri—St Louis will be followed by questions and answers and as much discussion as you can stand.

## **Awards Committee** **by Pat Burrell-Standley, PhD**

This is the second article in a series of six articles which describe the activities of the major committees of the St Louis section of the ACS. We review many aspects of chemistry and give out a remarkable number of juried awards at all levels from professional to teacher to student. The local section is asked to participate in these awards in many ways. Please look over these awards to see what we do and to look around to see if there is someone you should nominate for an award, or if requested, sit on the jury for an award. Perhaps you would like to be involved with reviewing college research projects or middle school and high school science fair projects. There are many opportunities to participate. Contact information can generally be found with the notices and on the calendar on the website ([www.stlacs.org](http://www.stlacs.org)).

The Awards Committee is composed of eight subcommittees relating to many of the awards the local ACS section grants. These subcommittees are named for the awards involved: Midwest Award, St Louis Award, Chemical Science and Technology Award, Distinguished Service Award, High School Teaching Award, Marcus Award, Outstanding College Junior Chemistry Student Awards, and Science Fair Awards. (The High School Chemistry Contest falls under the Education Committee.)

The St Louis Section established the ACS Midwest Award in 1944 to publicly recognize outstanding achievements in chemistry in the Midwest region. The award is conferred annually on a scientist who has made meritorious contributions to the advancement of pure or applied chemistry, chemical education, and the profession of chemistry. A call for nominations can be found in C&E News, the section newsletter the "Chemical Bond", and on the section website ([www.stlacs.org](http://www.stlacs.org)). The jury consists of members both within the St Louis section and outside of the St Louis section. The award ceremony takes place during a banquet at the fall Midwest Regional ACS meeting. The ACS Midwest Award consists of a medal and a \$2,000 honorarium which will be presented to this year's winner, Professor Daryle H. Busch of the University of Kansas, the week of October 8, 2008 at the banquet of the Midwest Regional ACS Meeting in Kearney, Nebraska. (Look for an article on this year's winner in the October issue of the Chemical Bond as well as on the website.) Recent awardees have worked in areas as diverse as mass spectrometry (Mike Gross); molecular recognition (Kristin Bowman-James); bonding and reaction mechanisms (Mark Gordon); assemblage and control of supramolecular architecture (Jerry Atwood); electrochemistry involving chiral electrochemical sensors, epitaxial electrodeposition of metal oxides, spintronics, and electrochemical biomineralization (Jay A Switzer); and the development of a family of anion-selective channels in amphiphilic peptides which might alleviate symptoms of cystic fibrosis (George Gokel). Much more information about all the awardees of the Midwest Award, and their various research efforts, can be found at the Society's website (<http://www.stlacs.org/midwestaward.html>). Nomination information and requirements can also be found at this site.

The St Louis Award, sponsored by the Monsanto Company and administered by the St Louis Section-ACS, is presented to an individual who has made outstanding contributions to the profession of chemistry and demonstrated potential to further the advancement of the chemical profession. A call for nominations can be found in the section newsletter the "Chemical Bond", and on the section website ([www.stlacs.org](http://www.stlacs.org)). The awardee is selected by a review committee constituted by the St Louis Section-ACS. The award, consisting of a \$1,500 honorarium and a plaque, is awarded at the St Louis Award Banquet, the final event of Chemical Progress Week, this year, April 26, 2008. The 2008 recipient of the St Louis Award was Dr. Shelley D Minter for her work in biofuel cell technology. The St Louis Award Symposium in honor of the recipient is generally held the day before the banquet, this year it was held at St Louis University on April 25. Much more information



about Dr. Minter and her research as well as the names and work of prior award winners can be found at the Society's website (<http://www.stlacs.org/stlouisaward.html>).

The St Louis Chemical Science and Technology Award was introduced in 2005. Eligible nominees should have an associate, bachelor, or masters degree in chemistry or a chemistry-related curriculum. The award is presented to a chemist in the St Louis area who has demonstrated a high degree of professionalism and scientific contribution. A call for nominations for the St Louis Science and Technology Award can be found in the section newsletter the "Chemical Bond" and on the section website ([www.stlacs.org](http://www.stlacs.org)). More nomination information can be found on the website as well. The award consists of a plaque, a \$500 honorarium, and dinner for the awardee and a guest at the annual Chemical Progress Week Awards Night. Congratulations to Mike Rogers for being selected as the 2008 recipient of the St Louis Science and Technology Award. Mike is an accomplished medicinal/synthetic chemist with 26 years experience and proven ability to develop lead compounds to commercial quality products. Previous award winners are listed on the website (<http://www.stlacs.org/awardhist.html>).

The Distinguished Service Award was established in 1993 by the board of directors and is intended to recognize distinguished service by a member of the section through excellent contributions, outstanding leadership, and continuing service to the section. The steering committee nominates a member of the section for a Distinguished Service Award, and the nominee must be ratified by the board of directors. The award consists of a plaque, and is presented at the Recognition Night banquet. The 2008 winner of the Distinguished Service Award is Bruce Ritts. A listing of other awardees can be found on the website (<http://www.stlacs.org/awardhist.html>).

High school teachers don't get nearly enough respect ... unless they are also the football coach. Winning the High School Chemistry Teaching Award could help. Nominations by students, colleagues, administration—and you-ACS members—are welcome. The jury consists of chemists from the St Louis ACS section. The award, presented at Chemical Progress Week Awards Banquet, consists of a plaque and a \$500 honorarium; the awardee is automatically nominated for the Midwest Regional Award in High School Chemistry Teaching and the national ACS James Bryant Conant Award. In addition to outstanding classroom work, the nominee should excel in other aspects of teaching, such as professional growth, curriculum or course material development, workshop participation, chemical or educational research, publications, or other similar activities. The 2008 High School Chemistry Teaching Award winner is Sara Knobloch of Triad High School in Troy, IL. A listing of previous awardees can be found on the website (<http://www.stlacs.org/awardhist.html>).

The Leopold Marcus Award was established by Jack Marcus of Missouri Analytical Company and his wife, Gertrude, in memory of his father, Leopold Marcus. It is administered by the Saint Louis University Department of Chemistry and the St Louis Section-ACS. The Leopold Marcus Award competition is held in spring on the campus of Saint Louis University with a reception following the competition. The competition consists of presentations based on the undergraduate research projects of senior chemistry majors at the university. The candidates, chosen by the faculty, each make a 15-minute presentation. The winner of the Marcus Award is determined by vote of the professional chemists in the audience. All ACS members are invited to attend, as are all teachers of chemistry from high schools and other universities as well as chemists from the industrial sector and government laboratories. Announcements of the competition can be found in the section newsletter the "Chemical Bond" and on the section website ([www.stlacs.org](http://www.stlacs.org)). The winner receives a cash prize of \$200 and a letter of citation. The other finalists receive \$100 and a letter of citation.

The winner, finalists, and other participants receive their awards and citations at the Awards Night Banquet of Chemical Progress Week. The winner and finalists are announced in the "Chemical Bond" and on the website ([www.stlacs.org](http://www.stlacs.org)).

The Outstanding College Junior Chemistry Student Awards subcommittee recognizes college students from local institutions who have shown outstanding achievements in their chemistry curricula. (Participating institutions include: Lindenwood University, Maryville University, Principia College, St Louis University, Southern Illinois University-Edwardsville, University of Missouri-St Louis, Washington University. The Outstanding Chemical Technology Student Award is presented to a student from St Louis Community College at Florissant Valley.) The students are selected by faculty at each college. Each student receives a \$100.00 cash award and a framed certificate. Their names are also engraved on a perpetual plaque located in the Chemistry Department of his/her respective school. The students are also guests of the section at the Awards Night Banquet held during Chemical Progress Week in the spring. The winners are announced in the "Chemical Bond" and on the website ([www.stlacs.org](http://www.stlacs.org)).

Science fairs: Members of the St Louis section of the ACS judge middle school and high school chemistry and chemistry related projects for special awards at the three Regional Science Fairs. These science fairs are:

- Missouri Tri-County Regional Science and Engineering Fair at St. Charles Community College
- Illinois Junior Academy of Science Region 12 Science Fair at SIU-Edwardsville
- Greater St. Louis Secondary Science Fair at Queeny Park

For each Regional Science Fair we have the option to award a 1st, 2nd and 3rd place at the middle school level and a 1st, 2nd and 3rd place at the high school level. If the fair has an honors division with honors projects, a 1st place award might also be given. The awards consist of a science book (with an ACS bookplate with the student's name, award, and science fair information), a certificate, and a letter of congratulations. First place winners also receive a membership to the St. Louis Science Center. Elementary school students receive a congratulatory letter and a purple participation ribbon. A call for judges and announcement of winners can be found in the Chemical Bond and on the website ([www.stlacs.org](http://www.stlacs.org)).

And although not formally part of the Awards Committee, it should be pointed out that the St Louis Section of the ACS occasionally sees the need to present special awards: Salutes to Excellence. The Salute to Excellence Award is used to recognize an individual, process or company that has made a positive impact on the importance of chemistry on everyday life. The St Louis Section has presented several of these awards over the years.

Dr Lincoln Diuguid: presented November 11, 2000

St Louis Science Center: presented March 10, 2001

Dr William Knowles, 2001 Nobel Laureate in Chemistry: presented March 2002

Marie Sherman: presented December 2002

Eric Ressler, Editor Chemical Bond: presented December 2003

Lisa Balbes, Founding Webmaven: presented November 2004

Again more information about these awards can be found at the website (<http://www.stlacs.org/awardhist.html>).

## Saint Louis Section - ACS 2008 Annual Budget

### 2008 INCOME

|                        |          |
|------------------------|----------|
| Affiliate Dues         | 55       |
| Corporate Donations    | 2,000    |
| Dividends              | 50       |
| Member Dues            | 12,500   |
| National ACS Allotment | 14,304   |
| <u>New Member</u>      | <u>0</u> |
| Total                  |          |
| 28,909                 |          |

### EXPENSES

|                     |            |
|---------------------|------------|
| Officers 2008 Chair | 150        |
| Chair Travel        | 500        |
| Chair Elect         | 200        |
| Chair Elect -Travel | 500        |
| Past Chair          | 100        |
| Past Chair Travel   | 800        |
| Secretary           | 1,100      |
| <u>Treasurer</u>    | <u>255</u> |
| Subtotal            | 3,605      |

### OTHER EXPENSES 2008

|                             |            |
|-----------------------------|------------|
| Board Meeting Expenses      | 800        |
| Councilors' Travel          | 4,000      |
| Laptop and software for     |            |
| <u>Chemical Bond Editor</u> | <u>200</u> |
| Subtotal                    | 5,000      |

### AWARDS COMMITTEE 2008

|                              |            |
|------------------------------|------------|
| College Student Awards       | 1,080      |
| Dinners                      | 375        |
| Distinguished Service        | 60         |
| High School Teaching Award   | 700        |
| Science Fairs                | 1,115      |
| Chemical Science             |            |
| <u>&amp;Technology Award</u> | <u>595</u> |
| Subtotal                     | 3,925      |

### EDUCATION COMMITTEE 2008

|                              |            |
|------------------------------|------------|
| Career Awareness Fair        | 50         |
| Career Day                   | 750        |
| Chemistry is pHun            | 500        |
| High School Chem. Contest    | 1,500      |
| Kids and Chemistry           | 200        |
| Scouting Workshops           | 200        |
| TIE Workshop                 | 450        |
| <u>UG Research Symposium</u> | <u>400</u> |
| Subtotal                     | 4,050      |

### PROFESSIONAL ACTIVITIES 2008

|                     |           |
|---------------------|-----------|
| Career Resources    | 150       |
| Government Affairs  | 50        |
| Media Response (SR) | 0         |
| Minority Affairs    | 200       |
| New Members         | 100       |
| Women Chemists      | 660       |
| YCC                 | 50        |
| <u>Historian</u>    | <u>50</u> |
| Sub Total           | 1,260     |

### PROGRAM COMMITTEE 2008

|                                  |              |
|----------------------------------|--------------|
| Education Topical Group          | 200          |
| General Topics Group             | 500          |
| Mass Spec. Disc. Group           | 1,000        |
| NMR                              | 1,200        |
| Organic Chemistry                | 0            |
| Recognition Night                | 500          |
| <u>St. Louis Award Symposium</u> | <u>1,500</u> |
| Sub Total                        | 4,900        |

### PUBLICITY & PUBLIC RELATIONS 2008

|                |          |
|----------------|----------|
| Chemical Bond  | 2,715    |
| Fundraising    | 50       |
| <u>Website</u> | <u>0</u> |
| Sub Total      | 2,765    |

### SPECIAL EVENTS 2008

|                               |              |
|-------------------------------|--------------|
| Awards Night -Dinner students | 1,000        |
| Chemical Progress Week        | 10           |
| Continuity Dinner             | 400          |
| Bill Carroll Roundtable       | 0            |
| Summer Picnic                 | 200          |
| National Chemistry Week       | 1,000        |
| Innovative Projects Grant     | 0            |
| 100th anniversary-StL Section | 0            |
| AICHE joint meeting           | 20           |
| <u>Boron Symposium</u>        | <u>1,000</u> |
| Sub Total                     | 3,630        |

|                |        |
|----------------|--------|
| Total Expenses | 29,135 |
| Total Income   | 28,909 |
| Net Income     | -226   |

## **Nominees for Office - 2009**

The Nominating Committee presents the following candidates for office to the St. Louis Section-ACS for 2009. All members of the St. Louis Section are eligible to vote. Please mark the enclosed ballot, following the instructions printed on the reverse side, and return no later than October 31, 2008. Ballots postmarked after that date will not be counted.

### **Chair-Elect (vote for one)**

Shelley Minter: Dr. Shelley D. Minter received her BS in Chemistry at Western Illinois University in 1995. She then went to University of Iowa to work on her PhD in Analytical Chemistry under the direction of Dr Johna Leddy. 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 this 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.

Dr Minter was promoted to Associate Professor of Chemistry 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), the Saint Louis University Student Government Association Faculty Excellence Award (2004 and 2006) and the ACS St.Louis Award (2008).

### **Secretary (vote for one)**

Jeffrey Cornelius: Professor of Chemistry, Unit Head for Math and Natural Sciences 2004-Present, Principia College. Education Committee Chair 2001-2006. Undergraduate Research Symposium Chair 2000, 2004 Section Secretary 2007-present.

### **Treasurer (vote for one)**

Theodore C. Gast: Professionally affiliated with the Carl F. Gast Company, Arch Paper LLC and Soulard Artist's Guild; Section activities include: Chair of the St. Louis Sections ACS 2005 (Best Local Section 2005 - large category); hosted ACS president Bill Carroll on whirlwind tour and chemical round table; the development and promotion of Kids & Chemistry (since its inception in 1996); serving as Science Fair Judge for the past several years and liaison for TIE (Teachers Industry and Environment), SAS (Society for Applied Spectroscopy) and AIChE (American Institute of Chemical Engineers). Ted has been more recently involved in fundraising activities for the Section through the American Chemistry Council (since November of 2002). He is currently the treasurer of the St. Louis Section.

## Director (vote for three)

Hal Harris: Professor of Chemistry at University of MO, St. Louis.

Section activities include: St. Louis Section Chair, 1994; Director, numerous years. Hal is interested in bringing a better public understanding and appreciation of chemistry through responses to distortions in the media, and has for several years headed a committee for that purpose in the section.

Steve Kinsley: Undergraduate Organic Chemistry Laboratory Supervisor, Washington University - Publicity and Public Relations Chair 2002-2005. Local Section Chair 2007

Bruce Ritts: Senior Scientist, Steris Corporation 2002-2003.

Section activities include: Treasurer 2002-2003; Director 2001; Publicity and Public Relations; Committee chair 2000; Chemical Progress Week 1997-1999, 2001-2002; Program Committee chair 1996; Education Committee chair 1994, 1995; National Chemistry Week coordinator 1993; Donation Committee chair 1992.

## Councilor (vote for one)

Donna G. Friedman, Ph.D. Professor and Department Chair of Chemistry St. Louis Community College at Florissant Valley

Section activities include: Business Manger, Chemical Bond (1983-85, 1999-2006), Treasurer (1986-87), Awards Committee Chair (1988), College Awards Subcommittee Chair (1989-90), Steering Committee (1990-93, 1997, 1999, 2000, 2006), Special Event "Proud to be a Chemist" Co-chair (1991), National Chemistry Week Acting Coordinator (1991), Chairman-Elect (1991), Section Chair (1992), Director (1993), Bylaws Committee Chair (1993-94), National Chemistry Week Coordinator (1994), Science Fair Subcommittee Chair (1995), Audit Committee Chair (1996-2008), Investment Trustee (1999-2004), Parliamentarian (2002-2005), Undergraduate Research Symposium Chair (2005) Division of Chemical Technicians: Education Committee Chair (1994-96), By-law Committee Chair and Parliamentarian (2003-2006), Treasurer (2007-2008) National ACS: Councilor (1994-2008), Council Committee on Technician Activities (1991-94, 2006-07), Council Committee on Constitution and Bylaws (1994-2000, 2008), Council Committee on Membership Affairs (2001-08), District V Councilors Caucus Secretary (1997-2002), Career Consultant (2006-08)

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# 2009 St. Louis Chemical Science and Technology Award Call for Nominations

The St. Louis Chemical Science and Technology Award will be presented to a chemist in the St. Louis area who has demonstrated a high degree of professionalism and scientific contribution. Criteria used to judge the award include technical proficiency, presentations, coaching/teamwork and additional professional activities. The award will consist of a plaque, a check for \$500.00 and dinner for the awardee and a guest at the annual Awards Night event, which will be held in April of 2009.

This award will be presented to a person whose training includes successful completion of an Associate, Bachelor or Masters Degree in a chemistry or chemistry-related curriculum.

Letters of nomination must be received by H. Peter Kleine, Pfizer Corp., mail code BB2K, 700 Chesterfield Parkway West, Chesterfield, MO 63017 by January 31, 2009. Nominations, including seconding letters, must not exceed six pages. The nominating letters should address the criteria above. A current work address, phone number and fax number must be provided for each nominee. Please include an e-mail address.

Nominees need not be a St. Louis Section 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 H. Peter Kleine, 636-247-6414  
FAX 636-247-0966 [h.peter.kleine@pfizer.com](mailto:h.peter.kleine@pfizer.com)

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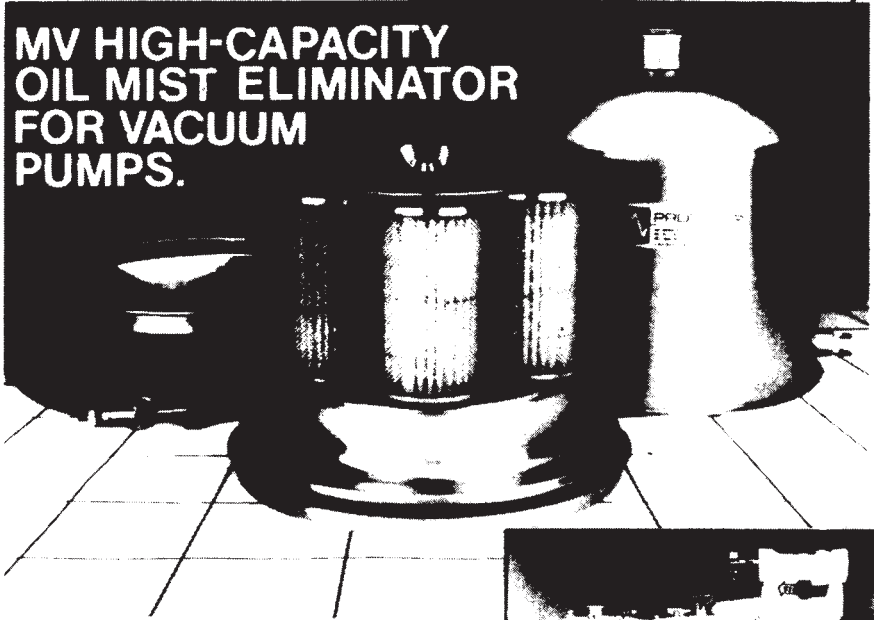
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*“Science is a way  
of thinking much  
more than it is a  
body of knowl-  
edge”  
Carl Sagan*

# DO AWAY WITH VACUUM PUMP OIL MIST-with MV Oil Mist Eliminators.

## MV HIGH-CAPACITY OIL MIST ELIMINATOR FOR VACUUM PUMPS.



MV VISIMIST OIL MIST ELIMINATOR FOR SMALLER PUMPS. ➔



- REMOVES OIL MIST FROM VACUUM PUMP EXHAUST.
- PROTECTS CLEAN ROOMS FROM PUMP VAPORS.
- KEEPS OIL RESIDUE FROM STICKING TO FURNITURE, WALLS AND FLOORS.
- COALESCING FILTERS DRAIN OIL INTO A RESERVOIR FOR EASY RECOVERY.

Vacuum pump oil mist contaminates the surrounding air, settles on surfaces and you breathe it. Eliminate this problem by installing MV oil mist eliminators on your vacuum pumps. It will save you time and money.

The high-capacity oil mist eliminator is made of stainless steel and is designed for large vacuum pumps. It measures only 10" dia. x 13.5" high. The coalescing filter elements remove oil mist at 0.1 micron with an efficiency of 99.999%.

The MV Visimist eliminates oil mist and is designed for smaller vacuum pumps. Contact MV Products for the oil mist eliminators best suited for your requirements. They install in minutes and require little maintenance.



**PRODUCTS**

A DIVISION OF MASS-VAC, INC.

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