



Chemical Bond

Volume 52
Number 3
March, 2001

St. Louis Section, American Chemical Society

'Tis the Season for Endowed Guest Lectures

See announcements for

Washington University's Bayer Distinguished Lecture	<i>Page 2</i>
University of Missouri–St. Louis' R.W. Murray Lecture	<i>Page 9</i>

The Department of Chemistry at Washington University
is pleased to announce this special presentation

The 2001 Bayer Distinguished Lectures
March 22 & 23, 2001

Professor Martin Möller
Universität Ulm
Germany

March 22, 2001
"Surface Patterning and
Surface Decoration by
Self-Organizing Block Copolymers"
4:00 p.m., Louderman Hall, Room 458
Reception Following

March 23, 2001
"Structure and Dynamics of
Brush-Like Molecules at Surfaces"
11:00 a.m., McMillen Hall, Room 311



For reservations, please call by March 15, 2001
(314) 935-7316
or e-mail marilyng@wuchem.wustl.edu

 **Washington**
University in St. Louis

Chemical Bond

Volume 52

No. 3

March, 2001

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Meeting & Seminars

Board of Directors

St. Louis Section-ACS Board of Directors meets 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.

Date: March 8
Social hour: 5:30 pm
Dinner: 6:30 pm
Business meeting: 7:15 pm
Future meetings: Apr 10 (note: Tuesday), May 10

Saint Louis University

Seminars start at 3:30 pm in Room 204 Macelwane Hall. Refreshments follow. For more information, contact Dana Spence, spenced@slu.edu.

University of Missouri-St. Louis

Refreshments at 3:45; seminars at 4 pm in B-451 Benton Hall. For further information, Contact Prof. Keith Stine, 314-516-5346, kstine@jinx.umsu.edu.

Monday, March 5

Dr. Robert D. Genns
 University of Illinois

The Proton-conducting Channels in Cytochrome-c Oxidase

Monday, March 12

Dr. Zhe Wu

University of Missouri-Kansas City
New Unimolecular Initiator and Transition Metal Mediated Polymer Synthesis

Friday, March 16, 1 pm

Professor John D. Kennedy
 University of Leeds, England
New Directions in Polyhedral Boron Chemistry

Monday, March 19

The R. W. Murray Lecture
Robert H. Grubbs

California Institute of Technology
Making Molecules with Metathesis Catalysts

Reception follows, 5:15-7:00 pm in the Alumni Center.
 All are welcome!

Monday, April 2

Dr. Douglas F. Covey
 Washington University
 School of Medicine

The Use of Steroid Enantiomers to Probe the Mechanism of Steroid-Induced Anesthesia

Washington University

Seminars are in McMillen 311 at 4 pm unless otherwise noted. Coffee is available outside the seminar room 20 minutes prior to the talk, and refreshments follow.

Thursday, March 1

Dr. John Papanikolas

University of North Carolina
Energy Migration Dynamics in a Light-Harvesting Polymer

Tuesday, March 20
Dr. Tom Mallouk
 Penn State University
To be announced

Thursday/Friday, March 22-23
 Time and location pending
Bayer Lectureship
Dr. Martin Moller
 University of Ulm, Germany
To be announced

Wednesday, March 28
Dr. Toshiro Harada
 Kyoto Institute of Technology
Oxazaborolidinones as Versatile Chiral Lewis Acids in Enantiotopic Face Selective and Group Selective Reactions

Thursday, March 29
Dr. Gary Drobnay
 University of Washington
To be announced

Computational Chemistry Discussion Group

Locations vary, but the time is generally 5:30 for refreshments, and 6 pm for the talk. For more information, contact Marcia Fenley, 314-862-0451, sfenley@artsci.wustl.edu or Philippa Jayatilleke, 314-647-1099, pjayat@tripos.com

Tuesday, March 6

Washington U, McMillen 311
Dr. Pengyu Ren
 Department of Biochemistry
 Washington U. School of Medicine
TINKER Polarizable Atomic Multipole Force Field for Proteins

Thursday, March 29th


Benton Hall 451, UM-St. Louis
Dr. Kirk Delisle
 Center for Molecular Electronics
 University of Missouri-St. Louis
Computational Models of Toxicity Endpoints

Environmental Science/Technology Discussion Group

Contact Dr. Kwok-Keung Au ("Amos") for information: call 618-239-0547 or e-mail amos@bellevillelab.com

(over for more)

March						
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31





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Women Chemists

All are welcome, men and women.
Please join us for for the:

5th Annual Women Chemists Brunch
Sunday March 25, 10:30am-1:30pm

History Museum, Forest Park

Dr. Marion Thurnauer

Director of Chemistry Division

Argonne National Lab

Are We There Yet?

RSVP by March 19 to Leah O'Brien

(618-650-3562 or lobrien@siue.edu)

Cost for brunch is \$12.

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The St Louis Section is putting together a resource list for media personnel. We will alert editors and reporters in the St Louis area to know that we are the available experts, ready to answer their questions, and provide background material on scientific topics.

To participate, contact Lisa Balbes (966-5298 or lisa@balbes.com) with your contact information and areas of expertise.

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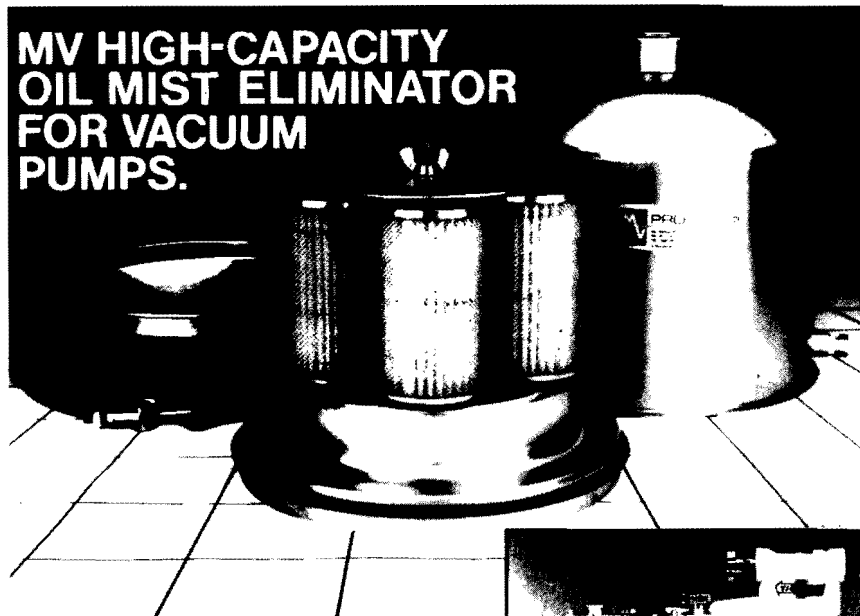



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Marcus Award Competition Slated at SLU

The 2001 Leopold Marcus Award competition will be held Wednesday, April 11 at 4:00 p.m. in Lee Hall (Lecture Hall 1) on the campus of Saint Louis University.

The Leopold Marcus Award was established by the late Jack and Gertrude Marcus in memory of his father. 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 candidates, chosen by the faculty, will each make a fifteen-minute presentation.

The winner of the award is determined by vote of the professional chemists in the audience. All ACS members are invited to attend and vote. Refreshments will be available after the competition. For further information, contact Bruce Kowert at (314) 977-2837 or kowertba@slu.edu. 

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The Department of Chemistry, University of Missouri–St. Louis announces The 4th Annual Robert W. Murray Lecture

Robert H. Grubbs

Victor and Elizabeth Atkins Professor of Chemistry
at California Institute of Technology

Making Molecules with Metathesis Catalysts

Monday, March 19, 2001

Lecture at 4:00 pm in 451 Benton Hall. Reception 5:15- 7:00 pm in the Alumni Center, 7956 Natural Bridge Road. All are welcome!

Robert H. Grubbs studied Chemistry at the University of Florida (B.S. and M.S.) and Columbia University, where he obtained his Ph.D. under Ronald Breslow in 1968. Following an NIH postdoctoral fellowship with James Collman at Stanford University and a stint on the faculty at Michigan State University he joined the faculty at California Institute of Technology in 1978, where he is presently Victor and Elizabeth Atkins Professor of Chemistry. His research interests involve the design, synthesis, and mechanistic studies of complexes that catalyze useful organic transformations. In recent years his major focus has been on the development of olefin metathesis catalysts and their use in the ring opening polymerization of cyclic olefins to yield polymers with useful mechanical, electronic or optical properties. Professor Grubbs's many awards have included Alfred P. Sloan Fellow (1974-76), Dreyfus Teacher-Scholar Award (1975-78), ACS National Award in Organometallic Chemistry (1988), Member, National Academy of Sciences (1989), Arthur C. Cope Scholar (1990), Fellow, AAAS (1994), ACS Award in Polymer Chemistry (1995), Fluka Reagent of the Year (1998), Mack Memorial Award (1999), Benjamin Franklin Medal in Chemistry (2000), ACS Herman F. Mark Polymer Chemistry Award (2000) and ACS Herbert C. Brown Award for Creative Research in Synthetic Methods (2001).



The Robert W. Murray Lectureship was established in 1996 and inaugurated in 1998 as an endowed lecture series through the kind contributions of family, friends, former students, colleagues of Dr Murray and alumni. The Lectureship honors the distinguished research career and the many contributions to the University of Missouri-St. Louis over more than 30 years by Professor Robert W. Murray, Curators' Professor Emeritus.

2001 Budget Clears Board Hurdle

The numerous committees, sub-committees, and programs supported by the St Louis section general fund saw their funding requests discussed and passed at the January board meeting. During discussion, a number of line items were actually increased above the requested amounts because the board felt they were underfunding their proposed activities.

The expense numbers in the table below are a consolidation to the "Committee" level in the interest of space. Any member wishing to see the detailed budget can submit a request via e-mail to the editor.

Some of the highlights:

Officers: The increase over 2000 is largely for more travel by the Chair and Chair-Elect as they represent the section at regional and national meetings.

Awards Committee: College student awards were increased to reflect both inflation and the increase in the number of colleges participating.

Education Committee: Kids & Chemistry will receive an additional \$500 to equip them with enough safety eyewear for their popular programs. The High School Chemistry Contest was given a raise to cover more—and more memorable—prizes for winners, and to cover the attendance of winners at the Awards Banquet.

Program Committee: The St. Louis Award Symposium got a big boost, recognizing the importance of the event to the section and the generally increasing costs over the years (though not in 2000).

	2000 Budget	2000 Actual	2001 Budget
Income			
Affiliate dues	100	5	50
Dividends	900	729	700
Member dues	10,500	10,991	10,500
Nation allotment	12,216	12,216	12,135
New members	10	75	100
Total Income	23,726	24,016	23,485
Expenses			
Officers	8,000	6,921	12,000
General expenses	5,500	4,291	6,000
Awards Committee	3,100	2,266	3,300
Education Committee	5,000	4,629	6,350
Professional Activities	4,525	2,328	3,225
Program Committee	7,450	5,135	8,475
Publicity and Public Relations	4,200	3,392	4,285
Special Events	3,000	2,869	6,200
Total Expenses	40,775	31,831	49,835

Midwest Regional Award Final Call for Nominations

The ACS Midwest Regional Award was established in 1944 to recognize outstanding achievement in chemistry in the midwest region. The award is conferred annually by the St. Louis section on a scientist who has made meritorious contributions to pure or applied chemistry, chemical education, and the chemistry profession.

To be eligible, a nominee must have performed the cited work while residing within the Midwest Region of the ACS. The nominee does not have to be an ACS member and does not have to reside currently within the Region.

Nominations include a nominating letter, two or more seconding letters, a curriculum vitae, a brief biography, documented and objective information regarding the outstanding achievements of the nominee, and if the nominee is an

academician, a list of persons who have received advanced degrees under his or her direction. Please submit nine copies of all nomination material to:

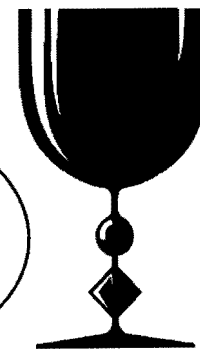
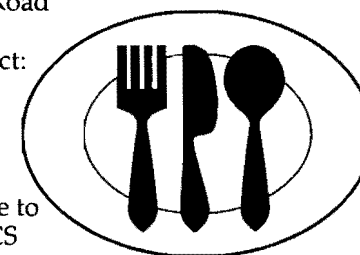
Leah O'Brien, Chair
Midwest Award Committee
Department of Chemistry
So. Illinois Univ.-Edwardsville
Edwardsville, IL 62026-1652

Nominations must be received on or before the deadline of March 31, 2001. The 57th Midwest Regional Award will be presented at the 36th Midwest Regional Meeting in October, 2001. The ceremonies will feature the Midwest Award Lecture, a dinner honoring the medalist, and the presentation of the Award (a medallion and honorarium). Contact Leah O'Brien at (618)-650-3562 or lobrien@siue.edu. ■

Recognition Night

New 50-year members honored,
presentation of the Distinguished Service Award,
Science Center to receive Salute to Excellence,
Past Chair recognition and address.
Come for an enjoyable evening.

Date: March 10, 6:00 pm
Location: Glen Echo Country Club
3401 Lucas & Hunt Road
Cost of dinner: \$18.50
For reservations, contact:
Samir El-Antably
P.O. Box 50168
St. Louis, MO 63105
(314) 664-5522
and mail check payable to
St. Louis Section-ACS
no later than March 7.



Bond Briefs

ACS Scholars Include Some of our Own

The 2000-2001 ACS Scholars have been selected, and two students from our territory have made the list. Congratulations to:

- **Bassey D. Ekpo** of St. Louis, MO, who will be attending the University of Missouri–Rolla
- **Asha A. Macon** of Alorton, IL, who will be attending Georgia Institute of Technology.

The Scholars Program, now in its sixth year, is designed to assist qualified minority students to pursue higher education in chemistry.

ChemInvolve Seeded and Fertilized

ChemInvolve, the new resource pool for local section activities, has several charter members. These members have placed themselves on a call list to be used when outreach activities need staffing.

If you were afraid to be the first—or only—person on the list, fear no more. If you are willing to serve occasionally in educational community-service activities of the local ACS section, get in touch with ChemInvolve organizer **Greg Wall** at 800-325-5832 ext. 3139 or e-mail

gwall@sial.com to express your support.

Volunteering doesn't commit you to any particular event; you can always decline an invitation (though, of course, Greg would prefer an all-inclusive "Okey-dokey").

Get ChemInvolveD.

Kids & Chemistry Recent Outings

K&C conducted two successful elementary school visits in January despite the big chill.

On January 9, Bristol Elementary School had their family science night (organized by **Brian Ward**). An estimated 150 children participated in one or more of the three K&C activities.

On January 12, about 45 fifth graders at Clark Elementary School did Solution Surprises. Participants learned what a solution is and experimented with density by making rainbows in a straw.

Kids & Chemistry co-chairs **Lynda McDowell** and **Anna Scarim** welcome invitations from other schools or children's groups. Lynda can be reached at 314-935-8528, or e-mail mcdowell@wuchem.wustl.edu.

see **Briefs** page 14

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Briefs

from page 12

Board Notes

A few items of note from the February 8th Board Meeting:

- The Steering Committee reported on their study of ACS safety guidelines for public demonstrations. It turns out that kids *may* take slime home with them. We will compile a binder of MSDS's for the substances used in demonstrations and have it available on site.
- The section would like to mount a rousing Mole Day celebration this October (the 23rd, to be exact). Ideas for creative activities to pay homage to Avogadro are welcome. Send to the editor or the section chair.

Last Chance to be the Judge

We know you meant to get in on this, but your {spouse | child | pet} {threw away | colored over | defiled} last month's announcement before you could call.

Here's the information again....

Be a judge at a local science fair! Judging one event takes only about two hours and is great fun. The dates for judging are:

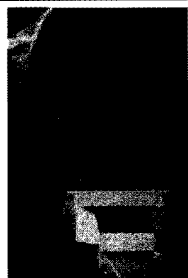
- St. Charles/Lincoln County: Monday, March 12, 6 pm
- Illinois Junior Academy of Science Region 12: Saturday, March 31, 9:30 am at SIU-E
- Greater St. Louis: Thursday, April 12, 6 pm at Queeny Park, Greensfelder Pavilion
- Elementary fairs are March 30 (Illinois) and April 9 (St. Louis).

Contact Alexa Serfis (do it now!):
phone (314) 977-2842
e-mail barnoski@slu.edu

Chemical Progress Week: April 16-21 Preliminary Schedule of Events

Monday April 16	Awards Night Raddison Hotel, 7750 Carondelet, Clayton, 63105 Social Hour: 5:30 pm Dinner: 6:30 pm Program 7:15 pm Honors the winners of the High School Chemistry Contest, Outstanding Students at area colleges and universities, and the Leopold Marcus Award winner. Cost \$18 Information: Bruce Ritts at (314) 535-1383
Tuesday April 17	ADACIOM Luncheon 11:30 am, Sheraton Clayton Hotel, 7730 Bonhomme Speaker: Mr. John Brunner , CEO of Vi-Jon Laboratories.
Friday April 20	St. Louis Award Symposium Technical lectures by the awardee and invited speakers. Time, location, and awardee to be announced.
Saturday April 21	St. Louis Award Banquet Kemoll's Restaurant, 1 Metropolitan Square, St. Louis Cocktails (open bar): 6 pm Banquet 7 pm Program 8 p.m. Dinner and program honoring this year's recipient (to be announced). Cost: \$25

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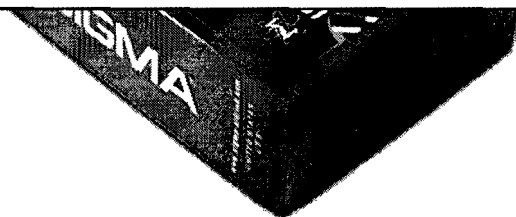
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