

theCHEMICALbulletin

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MAY • 2007

**THE NINETY-SIXTH PRESENTATION OF THE
WILLARD GIBBS MEDAL
(Founded by William A. Converse)
to
PROFESSOR SYLVIA T. CEYER
sponsored by the
CHICAGO SECTION AMERICAN CHEMICAL SOCIETY
FRIDAY, MAY 25, 2007**

The Arboretum Club
401 Half Day Road
(Route 22 and Buffalo Grove Road)
Buffalo Grove, IL 60089

From O'Hare International Airport:
Take the Tri-State Tollway (I-294) north into Lake County. It will become I-94 in Lake County. Exit west on Route 22 and travel about 4 miles to the restaurant

From Chicago:
Take the Tri-State (I-294) north, or take Edens north to the Tri-State spur. Take the Tri-State north into Lake County and follow the directions above.

Parking: Free

RECEPTION **6:00-7:00 P.M.**
Hors-d'oeuvres
Champagne Punch and Non-alcoholic
Punch

DINNER **7:00 P.M.**

Dinner reservations are required. To reserve your tickets, please call the Chicago Section office at 847-647-8405 or register at <http://ChicagoACS.org> by Friday, May 18 and pay \$45 at the door, or fill out the reservation form on page 7 and mail it with your payment of \$45 by Friday, May 11 to the address given on the form. If you have not

paid dues to the Local Chicago Section (\$15 per year), the price is \$47. Note: Professors must make student reservations.

(continued on page 2, Column 2)

AWARD CEREMONY **8:30 PM**

The Willard Gibbs Medal
Dr. Kenneth Fivizzani, Chair
Chicago Section, ACS

Introduction of the Medalist
Charles P. Casey
Past President, ACS

Presentation of the Medal
Dr. Bruce Bursten
President-Elect, ACS

Citation: For seminal work in molecule-surface reaction dynamics as related to heterogeneous catalysis and semiconductor etching.

This pioneering work has uncovered new mechanisms for dissociative chemisorption, desorption and absorption, thus extending the understanding of molecular precursors.

Experimental results include remarkable achievements using molecular beam-surface scattering, coupled with optical and electron spectroscopies, to measure the angular, energy and mass distribu-

tions of product molecules from a surface chemical reaction.

Acceptance of the Award



Dr. Sylvia Teresse Ceyer
J. C. Sheehan Professor of Chemistry,
Massachusetts Institute of Technology

ACCEPTANCE ADDRESS

**"Bulk H: A New Kind of Surface
Species with a Chemistry of Its Own"**

(continued on page 2)

(continued from page 1, column 3)

Abstract: Experiments that document the distinctive reactivity of H embedded in the bulk of a Ni metal catalyst are described. Specifically, a transient H atom emerging from the bulk onto the surface is observed to be the reactive species in hydrogenation of ethylene and acetylene adsorbed on Ni to form ethane and ethylene, respectively. An H atom adsorbed on the Ni surface does not hydrogenate ethylene or acetylene. However, a surface bound H atom will react with adsorbed acetylene to form ethylidyne, a precursor to coke that poisons the catalyst. The different reactivities of bulk and surface bound H arise from the very different energetics of the two kinds of H atoms. A bulk H atom reacts with an adsorbate while it is a transiently energetic species emerging from the bulk onto the surface with as much as 24 kcal/mol more energy than a reacting surface bound H atom. These results demonstrate that bulk H is not solely a source of surface bound H in catalytic hydrogenation as proposed 50 years ago, but rather, a reactant with a chemistry of its own.

THE MEDALIST

Sylvia T. Ceyer is the Associate Chair of the Department of Chemistry and the J. C. Sheehan Professor of Chemistry at the Massachusetts Institute of Technology. She received her B.A. summa cum laude in chemistry from Hope College in 1974 and her Ph.D. from the University of California at Berkeley in 1979. After a postdoctoral appointment at the National Bureau of Standards, she accepted a position as assistant professor at MIT in 1981.

Professor Ceyer is a physical chemist with research interests in the area of molecule-surface reaction dynamics as related to heterogeneous catalysis and semiconductor etching. She has uncovered sources of the apparent lack of surface reactivity under ultrahigh vacuum conditions and then used that knowledge to effect high-pressure heterogeneous catalytic reactions in an ultrahigh vacuum environment where microscopic reaction steps can be discerned. Specifically, she has uncovered new mechanisms for dissociative chemisorption and desorption such as atom abstraction and collision induced activation, absorption and desorption. She has provided new methods for adsorbate synthesis, demonstrated the use of electron spectroscopy as a vibrational spectroscopy sensitive to bulk species, discovered the role of bulk hydrogen in hydrogenation reactions, observed and verified the gas phase

dissociation of a product of a surface reaction, identified and clarified the site conversion process, and extended the understanding of molecular precursors.

Ceyer is a fellow of the National Academy of Sciences and the former chair of its chemistry section, the secretary of the Physical and Mathematical Sciences Class of the National Academy of Sciences, a fellow of the American Academy of Arts and Sciences, a fellow of the American Association for the Advancement of Science and a fellow of the American Physical Society. She has been awarded the Hope College Distinguished Alumni Award, the Edgerton Prize, the American Association of University Women's Young Scholar Award and has been the holder of a Sloan Fellowship and a Camille and Henry Dreyfus Teacher-Scholar award. Ceyer has received the Baker Award for undergraduate teaching, the School of Science Teaching Prize and the Nobel Laureate Signature Award for Graduate Education from the American Chemical Society. In 1998, she was named a MacVicar teaching fellow at MIT.

Professor Ceyer is presently a member of the Basic Energy Sciences Advisory Committee for the Department of Energy, a member of the National Research Council's Benchmarking the Research Competitiveness of US Chemistry Committee and a member of the editorial board of *Chemical Physics*. Most recently, she served as an associate editor of *Physical Review Letters*, a member of the Program Committee of the American Association for the Advancement of Science, and a councilor of the American Physical Society. She has held numerous named lectureships including the Dreyfus Lecturer at Dartmouth University, Willard Lecturer at the University of Wisconsin, Tetelman Lecturer at Yale University, Harkins Lecturer at the University of Chicago, Welch Foundation Lecturer, Chancellor's Distinguished Lecturer at the University of California Berkeley and the Langmuir Lecturer of the American Chemical Society.

(continued from page 1, column 2)

Tables of 10 may be reserved. If you request seating for a group, please include a list of names of the people in your group and their meal choices. Tickets and nametags will be available at the door. No refunds will be made after noon, on Friday, May 18, 2007. (continued on page 2)

THE MENU: Caesar Salad; Entree choice of Pecan Asiago Chicken with Garlic Mashed Potatoes, Hazelnut Crusted Grouper with Wild Rice Pilaf, or Butternut Squash Ravioli tossed in Garlic Cream Sauce; Flourless Chocolate Cake; Wine

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"CHEM SHORTS" For Kids

The Elementary Education Committee of the Chicago Section ACS presents this column. They hope that it will reach young children and help increase their science literacy. Please cut it out and pass it on to your children, grandchildren, or elementary school teachers. It is hoped that teachers will incorporate some of the projects in this column into their lesson plans.

Homemade Floam

Kids, what is like slime with polystyrene beads in it that can be molded into shapes? It's a really fun toy called Floam™. You can sculpt with this colorful goop or use it to coat other objects. You can store it to reuse it or allow it to dry, if you want permanent creations. It's a lot of fun, but not always easy to locate. So, you can make a type of 'Floam' yourself. Like slime, it is generally safe, though anything containing food coloring can stain surfaces (don't eat it though, because polystyrene beads simply aren't food!).

Here is what to do:

1. Dissolve 2 tsp. borax completely in 1/2-cup water. (If you want slimmer, more flexible 'Floam', then try 1 tsp. borax instead.)
2. In a separate container, mix 1/4 cup white glue and 1/2 cup water. Stir in food coloring.
3. Pour the glue solution and the polystyrene beads into a Ziploc plastic bag. Add borax solution and knead it until it's well mixed. Use 1 tbsp. of the borax solution for a very fluid Floam, 3 tbsp for average Floam, and the entire amount for stiff Floam.
4. To keep your Floam, store it in a sealed bag in the refrigerator (this discourages mold). Otherwise, you can allow it to dry into whatever shape you chose.

How it works:

Borax reacts to crosslink the polyvinyl acetate molecules in the glue. This forms a flexible polymer.

Tips:

1. If you use a 4% solution of polyvinyl alcohol instead of glue, you will get a more transparent product that will hold shapes better.
2. Polystyrene beads can be found at craft stores (e.g., JoAnn Fabrics), usually as fillers for bean

bags or dolls. Or, for more hands-on fun, you can grind Styrofoam™ cups using a cheese grater.

References:

Anne Marie Helmenstine's "About Chemistry" at <http://chemistry.about.com/od/chemistryhowtoguide/ht/floam.htm>

Edited by K. A. Carrado, Argonne National Laboratory

All past "ChemShorts": <http://member.ship.acs.org/C/Chicago/ChmShort/kidindex.html>.

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NOTICE TO ILLINOIS TEACHERS

The Chicago Section ACS is an ISBE provider for professional development units for Illinois teachers. Teachers who register for this month's meeting will have the opportunity to earn up to 3 CPDU's.

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THE WILLARD GIBBS AWARD

Founded by William A. Converse

The award was founded in 1910 by William Converse (1862-1940), a former chairman and secretary of the Chicago Section. The medal was named for Professor Josiah Willard Gibbs (1839-1903) of Yale University. Gibbs, whose formulation of the Phase Rule founded a new science, is considered by many to be the only American born scientist whose discoveries are as fundamental in nature as those of Newton and Galileo.

Mr. Converse supported the award personally for a number of years, and then established a fund for it in 1934 that has subsequently been augmented by the Dearborn Division of W. R. Grace & Co. J. Fred Wilkes and his wife have also made considerable contributions to the award. Since the sale of the Dearborn/Grace division to Betz, the BetzDearborn Foundation, located in Horsham, Pennsylvania has most generously offered to continue the historic relationship between the Section and Dearborn. This Foundation has contributed annually since the purchase toward the Willard Gibbs Medal Fund to help defray the cost of the medal and of the banquet itself-helping to make the banquet award the outstanding and gracious event that it is. We are most appreciative of their support.

The purpose of the award is "To publicly recognize eminent chemists who, through years of application and devotion, have brought to the world developments that enable everyone to live more comfortably and to understand this world better." Medalists are selected by a national jury of eminent chemists from different disciplines. The nominee must be a chemist who, because of the preeminence of his work in and contribution to pure or applied chemistry, is deemed worthy of special recognition.

The award consists of an eighteen-carat gold medal having, on one side, the bust of J. Willard Gibbs, for whom the medal was named. On the reverse is a laurel wreath and an inscription containing the recipient's name.

Given annually for ninety-five years, the recipients span nearly a century of chemistry. Most of the names are familiar to chemists regardless of specialty. This fame may result from later recognition, including, in many cases, the Nobel Prize. Another reason for the familiarity of these names may be that textbooks have permanently associated

many of these names with classic reactions or theories. In any case, the fame achieved by the Gibbs medalists has crossed the boundaries between chemistry specialties.

Svante Arrhenius	1911	Har Gobind Khorana	1974
Theodore W. Richards	1912	Herman F. Mark	1975
Leo H. Baekeland	1913	Kenneth S. Pitzer	1976
Ira Remsen	1914	Melvin Calvin	1977
Arthur A. Noyes	1915	W. O. Baker	1978
Willis R. Whitney	1916	E. Bright Wilson	1979
Edward W. Morley	1917	Frank Albert Cotton	1980
William M. Burton	1918	Bert Lester Vallee	1981
William A. Noyes	1919	Gilbert Stork	1982
F. G. Cottrell	1920	John D. Roberts	1983
Mme. Marie Curie	1921	Elias J. Corey	1984
Julius Stieglitz	1923	Donald J. Cram	1985
Gilbert N. Lewis	1924	Jack Halpern	1986
Moses Gomberg	1925	Allen J. Bard	1987
Sir James Colquhoun Irvine	1926	Rudolph A. Marcus	1988
John Jacob Abel	1927	Richard B. Bernstein	1989
William Draper Harkins	1928	Richard N. Zare	1990
Claude Silbert Hudson	1929	Gunther Wilke	1991
Irving Langmuir	1930	Harry B. Gray	1992
Phoebus A. Levene	1931	Peter B. Dervan	1993
Edward Curtis Franklin	1932	M. Frederick Hawthorne	1994
Richard Willstätter	1933	Sir John Meurig Thomas	1995
Harold Clayton Urey	1934	Fred Basolo	1996
Charles August Kraus	1935	Carl Djerassi	1997
Roger Adams	1936	Mario J. Molina	1998
Herbert Newby McCoy	1937	Lawrence F. Dahl	1999
Robert R. Williams	1938	Nicholas J. Turro	2000
Donald Dexter Van Slyke	1939	Tobin J. Marks	2001
Vladimir Ipatieff	1940	Ralph Hirschmann	2002
Edward A. Doisy	1941	John I. Brauman	2003
Thomas Midgley, Jr.	1942	Ronald Breslow	2004
Conrad A. Elvehjem	1943	David A. Evans	2005
George O. Curme, Jr.	1944	Jacqueline Barton	2006
Frank C. Whitmore	1945		
Linus Pauling	1946		
Wendell M. Stanley	1947		
Carl F. Con	1948		
Peter J. W. Debye	1949		
Carl S. Marvel	1950		
William Francis Giauque	1951		
William C. Rose	1952		
Joel H. Hildebrand	1953		
Elmer K. Bolton	1954		
Farrington Daniels	1955		
Vincent du Vigneaud	1956		
W. Albert Noyes, Jr.	1957		
Willard F. Libby	1958		
Hermann I. Schlesinger	1959		
George B. Kistiakowsky	1960		
Louis Plack Hammett	1961		
Lars Onsager	1962		
Paul D. Bartlett	1963		
Izaak M. Kolthoff	1964		
Robert S. Mulliken	1965		
Glenn T. Seaborg	1966		
Robert Burns Woodward	1967		
Henry Eyring	1968		
Gerhard Herzberg	1969		
Frank H. Westheimer	1970		
Henry Taube	1971		
John T. Edsall	1972		
Paul John Flory	1973		

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ILLINOIS STATE FAIR PROJECT VOLUNTEERS NEEDED

The Illinois Sections of the ACS are planning to again have a cooperative tent at the Illinois State Fair August 10-19 in Springfield. Our tent activities provide information to the public on chemistry through demos, hand-on activities, literature, and give-aways and give us a chance to touch the lives of many Illinois citizens and governmental leaders. **Last year, over 13,000 people visited our tent!**

We are looking for volunteers to help during the fair and also to help in planning this project. Our next planning meeting for this year will be May 19 via conference call. If you are interested in helping for a few hours during the State Fair in August (you do get free admission and parking), helping on the planning committee for the tent activities, or if you think your company may be able to give a much-needed donation (monetary or in supplies) -- just call the Section office at (847) 647-8405.

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OLD ATHLETIC SHOES NEEDED

The Chicago Section ACS is collecting used athletic shoes for a community project being performed by Steven Edelman, son of Fran Kravitz. The project is called Nike-Reuse-a-Shoe. Nike recycles shoes of any brand and donates the Nike Grind material for new sports surfaces like playgrounds for kids who wouldn't otherwise have access to high-performance sports surfaces to play on.

Athletic shoes will be collected at the Chicago Section ACS dinner meetings through October (the first collection was at the April meeting). **Note:** Shoes will **not** be collected at the Willard Gibbs Award dinner this month. Won't you please help others by giving your used athletic shoes of any brand to this worthwhile project?

Put your business card here
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Recent studies have shown that students in the United States are falling behind other nations in the areas of science and math. The reason for the decline is the lack of exposure to these fields in the classroom and in daily life. Students need to be encouraged to participate in the fields of science and math. University of Illinois Extension is calling on you, as a science/math professional, to share your knowledge and love of science and math to help prepare Cook County residents for a better future.

University of Illinois Extension is pioneering a Science Volunteer Program. Volunteers with scientific backgrounds are needed work with schools, organizations, and communities. Through their efforts, Volunteers will supplement established science curricula, encourage future career choices in the sciences, stimulate a general interest in science and math, and increase general science knowledge to improve everyday living.

University of Illinois Extension hopes it can count on the support of science professionals like you to participate in the Science Volunteer Program. This important decision to participate will help motivate future generations of science and math professionals.

For more information and an application form, please visit the University of Illinois Extension website at <http://web.extension.uiuc.edu/cook/scitech.html> or call Dr. Jennifer Jackiw at 708-720-7500.

Please hurry! Volunteer training dates are approaching fast.

--

University of Illinois Extension is the flagship outreach effort of the University of Illinois at Urbana-Champaign, offering educational programs to residents of all Illinois' 102 counties and beyond. Through learning partnerships that put knowledge to work, U of I Extension's programs are aimed at making life better, healthier, safer and more profitable for individuals and their communities.

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2007 GIBBS DINNER RESERVATION FORM

Name _____ Affiliation _____

Address _____ Phone () _____

Email Address _____

tickets for ACS members & guests _____ (\$45.00/ticket) Nonmembers _____ (\$47.00)

tickets for students, unemployed members, and retirees (\$22.50/ticket) _____

Note: Professors must make student reservations.

dinners: Pecan Asiago Chicken with Garlic Mashed Potatoes _____

Hazelnut Crusted Grouper with Wild Rice Pilaf _____

Butternut Squash Ravioli Tossed in Garlic Cream Sauce _____

Total Enclosed \$ _____ Payable at time of reservation. Please include a list of your guests' names, affiliations and dinner selections with this form.

Return with payment to: American Chemical Society, Gibbs Reservations
7173 North Austin Ave., Niles, IL 60714

..... cut here

OBITUARY

Murray Hauptschein, 83, died March 11, 2007 at his home in Indian Head Park, Illinois. He had moved to the Chicago area and joined the Chicago section ACS following his retirement. He was preceded in death by his wife Gloria and is survived by sons David (Lois Kimmelman) and Mark (Marty Walker), and granddaughter, Alison.

Murray was born and raised in New York City and earned a bachelors degree from City College of New York. During World War II he was selected to work on the Manhattan Project at Columbia University and then went on to earn a Ph.D. in organic chemistry from Duke University, graduating Phi Beta Kappa. A distinguished career in the Philadelphia area as a research chemist and business executive followed, working at the Research Institute of Temple University and Pennwalt Corporation where he was Director of Research and Development until his retirement in 1982. Murray received the first American Chemical Society Philadelphia Section Award for conspicuous achievement through research in 1962. Murray was granted 85 US patents and contributed to 43 ACS publications.

DEATH NOTICE

Chicago section member, **Dr. George F. Svatos**, passed away in March 2007.

Chicago section member, **Dr. Virgil V. Bogert**, passed away in November 2006.

WCC ARTICLE AUTHORS
NEEDED

The Chicago Section's Women Chemists Committee has a project to highlight women, both current and historical, and topics of interest to women. The project is called the "WCC Column" in the *Chemical Bulletin* and the project has been very successful.

We invite anyone, women or men, to join us in this endeavor of writing an article for the column. The article needs to be about 500 words long and will also be put on the Chicago Section website. The author also needs to design a poster for display at the corresponding monthly meeting. Our office manager, Gail Wilkening, will help with the poster, which can be primarily a large font version of what you wrote, if you wish. We welcome new authors and those who have already discovered what a pleasure this project is. Whether you interview a current chemist or research an historical chemist, please join us in this stimulating activity.

CO-CHAIRS MARGY LEVENBERG AND
SUSAN SHIH

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ANALYSIS FOR THE CHEMICAL ELEMENTS

CALENDAR

May 10: Chicago Section Board Meeting, 7173 N. Austin Ave., Niles, IL. Call the Section office at (847) 647-8405.

May 19: Illinois State Fair Planning Committee conference call meeting. For more information, call the Section office at (847) 647-8405.

May 25: Chicago Section's **Willard Gibbs Medal Award Presentation and Banquet** at The Arboretum Club, 401 Half Day Road, Buffalo Grove, IL. The medalist is Professor Sylvia T. Ceyer, MIT. **See details and dinner reservation coupon in this issue.**

June 3-7: 55th ASMS Conference on Mass Spectrometry, Indiana Convention Center, Indianapolis, Indiana. For further information, contact ASMS at (505) 989-4517 or go to www.asms.org.

June 14: Chicago Section Board Meeting, 7173 N. Austin Ave., Niles, IL. Call the Section office at (847) 647-8405.

June 21: Chicago Section's monthly dinner meeting held jointly with YCC. Note that this meeting is on a Thursday. Ruth Ann Armitage, Eastern Michigan University, is the after-dinner speaker.

July 9-13: 59th Annual Inter/Micro 2007 Conference hosted by McCrone Research Institute and dedicated to applied microscopy, The Millennium Knickerbocker Hotel, 163 East Walton Place, Chicago, IL. Go to www.mcri.org for complete information or contact Lauren Newbrough by e-mail (intermicro@mcri.org) or phone (312) 842-7100.

August 10-19: ACS Illinois Sections' cooperative tent project at the Illinois State Fair. For further information on this activity, contact the section office at (847) 647-8405.

August 30: Chicago Section Board Meeting, 7173 N. Austin Ave., Niles, IL. Call the Section office at (847) 647-8405.

September 20: Chicago Section Board Meeting, 7173 N. Austin Ave., Niles, IL. Call the Section office at (847) 647-8405.

September 28: Chicago Section's dinner meeting at Loyola University. Roald Hoffmann, Cornell University, is the after-dinner speaker.

October 5: Microchemical Methods course, McCrone Research Institute, 2820 S. Michigan Ave., Chicago. Go to www.mcri.org for more information or call (312) 842-7100.

October 11: Chicago Section Board Meeting, 7173 N. Austin Ave., Niles, IL. Call the Section office at (847) 647-8405.

October 19: Basolo Medal Award joint dinner meeting of the Chicago Section ACS and Northwestern University.

October 21-27: National Chemistry Week's 20th anniversary. The theme is "The Many Faces of Chemistry".

November 8: Chicago Section Board Meeting, 7173 N. Austin Ave., Niles, IL. Call the Section office at (847) 647-8405.

November 16: Chicago Section's Education Night dinner meeting. Zafra Lerman, Columbia College Chicago, is the after-dinner speaker.

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