

The Chemical Bulletin

100th Anniversary 1914 – 2014

<http://chicagoacs.org>

MAY • 2014

THE ONE HUNDRED AND THIRD PRESENTATION OF THE WILLARD GIBBS MEDAL

(Founded by William A. Converse)

to

PROFESSOR JOHN E. BERCAW

sponsored by the

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

FRIDAY, MAY 16, 2014

Meridian Banquets
1701 Algonquin Road
Rolling Meadows, IL 60008
847-952-8181

Directions to Meridian Banquets are on page 2.

RECEPTION 6:00 P.M.
Hors-d'oeuvres
Two Complimentary Drinks

DINNER 7:00 P.M.

Dinner reservations are required and should be received in the Section Office via phone (847-391-9091), email (chicagoacs@ameritech.net), register at <http://www.chicagoacs.org> or Eventbrite by Monday, May 12. The price of the dinner is \$50 for members and \$52 for non-members. The menu is on page 2. PLEASE

HONOR YOUR RESERVATIONS. The Section must pay for all food orders. No-shows will be billed.

Seating will be available after the dinner for people not attending the dinner but interested in hearing the speaker.

AWARD CEREMONY 8:30 PM
The Willard Gibbs Medal

The History of the Willard Gibbs Award

Dr. Josh Kurutz, Chair
Chicago Section, ACS

Introduction of the Medalist
Professor Tom Driver
University of Illinois at Chicago

Presentation of the Medal
Dr. Diane Grob Schmidt
President-Elect, ACS

The Citation:

For path-breaking advances in inorganic and organometallic chemistry related to the elucidation of olefin polymerization and hydrocarbon oxidation mechanisms and development of early metal polymerization catalysts.



Professor John E. Bercaw, Centennial Professor of Chemistry, Division of Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, CA

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ACCEPTANCE ADDRESS

"Hydrocarbon Upgrading to Fuels and Chemicals: Progress towards Homogeneous Catalysts"

Abstract: Current technologies for conversion of natural gas and petroleum to fuels and commodity chemicals are energy intensive and polluting. New catalytic processes that are more efficient and "greener" are required to reduce CO₂ emissions and to more effectively utilize our fossil fuel reserves. Discussed will be fundamental research efforts directed towards developing (1) a selective, homogeneous catalyst for direct, partial oxidation of light alkanes, (2) a homogeneous catalyst system for converting syngas (a mixture of CO and H₂) obtained by steam reforming of light alkanes, to C_{n+1} products, and (3) a catalytic tandem olefin dimerization/hydrogen transfer scheme for upgrading light alkane/alkene mixtures to transportation fuels.

THE MEDALIST:

Prof. John E. Bercaw received his B.S. degree from North Carolina State University in 1967, his Ph.D. from the University of Michigan in 1971, then undertook postdoctoral research at the University of Chicago. He joined the faculty at the California Institute of Technology as an Arthur Amos Noyes Research Fellow in 1972, and in 1974 he joined the professorial ranks, becoming Professor of Chemistry in 1979. From 1985 to 1990 he was the Shell Distinguished Professor of Chemistry, and in 1993 he was named Centennial Professor of Chemistry.

Prof. Bercaw has made major contributions to our understanding and development of processes that form common plastics such as polyethylene and polypropylene with worldwide production of 200 billion pounds per year. The Gibbs Medal ranks with the Nobel Prize in Chemistry in prestige, placing him among fellow Gibbs awardees Marie Curie, Irving Langmuir, Robert Woodward, Rudy Marcus, Harry Gray, and other luminaries.

The Bercaw laboratory specializes in studying mechanisms of olefin polymerization, especially the Ziegler-Natta (ZN) reaction. Their work has led to a fundamental understanding of the detailed mechanisms of chain growth in ZN polymerizations and the factors which control syndio- and isotacticities and the degree of comonomer incorporation in copolymerizations; these variables are critical in determining the physical properties of the resultant polymers and copolymers.

Prof. Bercaw elucidated the general principles that dictate nearly perfect facial discrimination of -olefin insertion

into the metal alkyl bonds of metallocene catalysts. He identified key steric and electronic interactions that discriminate between the two propylene enantiofaces. He developed a deuterated, isotopically chiral and enantiomerically pure 1-pentene that enables simple quantitative NMR determination of the enantioface selected for insertion.

In conjunction with Jay Labinger, Bercaw elucidated key mechanisms in the "Shilov" oxidation system, a catalytic system for oxidation of methane to methanol -- one of the most promising model systems for further developing useful catalysts for selective alkane oxidation. Using an array of elegant mechanistic probes, including model complexes, isotope and stereochemical labeling, in combination with kinetic studies and isotope effects, his laboratory has established many of the important features responsible for the unique selectivity of this system for primary C-H bonds.

Author of approximately 300 academic papers, Bercaw is a member of the U.S. National Academy of Sciences, a Fellow of the American Academy of Arts and Sciences, and has received dozens of other honors and awards. For his basic science, he has been awarded the ACS award for Pure Chemistry, the ACS A.C. Cope Scholar Award, and the Southern California ACS Tolman Medal; he was also named as a Seaborg Scholar by the Los Alamos National Laboratories. His applied work has been manifested in productive collaborations with major corporations BP, ExxonMobil, Dow, and for a period was named the Shell Distinguished Professor of Chemistry.

100TH ANNIVERSARY OF THE CHEMICAL BULLETIN

REMEMBRANCES OF THINGS PAST

The December 1932 Chicago Section meeting was held at the Midland Club on Jackson Blvd. Dinner was \$1. We have no attendance records; the official membership count was 1022. The main speaker was C.G. King, Professor of Chemistry at the University of Pittsburgh, who discussed his five-year study on Vitamin C isolation and identification of which had been accomplished that year. There were six pre-dinner group talks (Inorganic, Analytical, Organic, Physical, Biochemical, and Education).

One of the Chemical Bulletin's features at that time was a "Chemist's Calendar," which listed things of interest to chemists for each day of the month. On December 12, there is an entry that reads "More jobs than chemists in 1928."

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 CPDU's.

DIRECTIONS TO THE MERIDIAN BANQUETS

From Chicago

Take I-90 west to Arlington Heights Road. Exit north to the first light, Algonquin Rd., Route 62, turn left/west and travel to Meridian Banquets on the left.

From I-294 North/South

Take I-294 north or south to the I-90 junction near O'Hare. Travel west on I-90 and follow the directions above.

From I-290/I-355/Rt. 53

Travel north past I-90 as 355 turns into 53. Exit Algonquin Rd., Rt. 62 east and go to Meridian Banquets on the right.

On-Site Parking: Free

DINNER MENU

- Cream of Tomato Basil with Bleu Cheese
- Meridian Salad
- Wine
- Choice of
 - o Roast Top Sirloin of Beef with rosemary merlot sauce
 - o Fresh Broiled Norwegian Salmon with dill sauce
 - o Portobello Mushroom with zucchini
- Green Beans Almondine
- Duchess Potato
- Hot Fudge Brownie with Vanilla Ice Cream and Hot Fudge Sauce

"CHEM SHORTS" For Kids

The Elementary Education Committee of the Chicago Section ACS presents this column and hopes it will reach young children and help increase their interest in science. Please print it out and pass it on to your children, grandchildren, or elementary school teachers. Teachers are encouraged to incorporate the projects in this column into their lesson plans.

Honeycomb Candy - Cooking with CO₂

Kids, honeycomb candy is easy to make and has an interesting texture that is caused by carbon dioxide bubbles trapped inside it. The carbon dioxide is produced when baking soda (sodium bicarbonate) is added to a hot simple syrup. The bubbles in the candy make it light and give it a honeycomb appearance.

Materials:

- 3/4 cup sugar
- 2 tablespoons honey
- 2 tablespoons water
- 1-1/2 teaspoons baking soda
- a candy thermometer

Directions:

- Grease a cookie sheet using oil, butter, or non-stick cooking spray.
- Add the sugar, honey, and water to a saucepan.
- Have an adult partner cook the ingredients over high heat, without stirring, until the mixture reaches 300°F. The sugar will melt, small bubbles will form, the bubbles will become larger, and then the sugar will start to caramelize to an amber color.
- When the temperature reaches 300°F, ask your adult partner to remove the pan from heat and whisk the baking soda into the hot syrup. This will cause the syrup to foam up.
- Stir just enough to mix the ingredients, and then have your adult partner pour the mixture onto the greased baking sheet. Don't spread out the candy, as this would cause your bubbles to pop.
- Allow the honeycomb candy to cool, then break or cut it into pieces.
- Store it in an airtight container.

The creation of carbon dioxide (CO₂) gas in the candy is the same process that is used in making some baked goods. The honeycomb candy forms a hard shell around the bubbles.

References: By Anne Marie Helmenstine, Ph.D.

<http://chemistry.about.com/od/foodscienceprojects/a/>

honeycombcandy.htm

<http://www.honeybeesuite.com/how-acid-is-honey/>

Submitted by DR. KATHLEEN CARRADO GREGAR

To view all past "ChemShorts for Kids", go to:

<http://www.chicagoacs.net/ChmShort/kidindex.html>

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 supported by the Dearborn Division of W. R. Grace & Co. Considerable contributions to the award have also been made by J. Fred Wilkes and his wife.

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 or her 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.

The recipients span over 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.

Svente Arrhenius	1911	Richard Willstatter	1933
Theodore W. Richards	1912	Harold Clayton Urey	1934
Leo H. Baekeland	1913	Charles August Kraus	1935
Ira Remsen	1914	Roger Adams	1936
Arthur A. Noyes	1915	Herbert Newby McCoy	1937
Willis R. Whitney	1916	Robert R. Williams	1938
Edward W. Morley	1917	Donald Dexter Van Slyke	1939
William M. Burton	1918	Vladimir Ipatieff	1940
William A. Noyes	1919	Edward A. Doisy	1941
F. G. Cottrell	1920	Thomas Midgley, Jr.	1942
Mme. Marie Curie	1921	Conrad A. Elvehjem	1943
Julius Stieglitz	1923	George O. Curme, Jr.	1944
Gilbert N. Lewis	1924	Frank C. Whitmore	1945
Moses Gomberg	1925	Linus Pauling	1946
Sir James Colquhoun Irvine	1926	Wendell M. Stanley	1947
John Jacob Abel	1927	Carl F. Cori	1948
William Draper Harkins	1928	Peter J. W. Debye	1949
Claude Silbert Hudson	1929	Carl S. Marvel	1950
Irving Langmuir	1930	William Francis Giauque	1951
Phoebus A. Levene	1931	William C. Rose	1952
Edward Curtis Franklin	1932	Joel H. Hildebrand	1953

(continued on page 4)

THE AMERICAN ASSOCIATION OF CHEMISTRY TEACHERS (AACT)—COMING IN SEPTEMBER!

Serving K-12 teachers of chemistry everywhere, AACT will offer specialized chemistry teaching resources, a periodical about teaching chemistry in the K-12 classroom, an online community for sharing strategies, and more! Please visit www.acs.org/aaact to learn more, stay in touch, and get involved.

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(continued from page 3)

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
Har Gobind Khorana	1974
Herman F. Mark	1975
Kenneth S. Pitzer	1976
Melvin Calvin	1977
W. O. Baker	1978
E. Bright Wilson	1979
Frank Albert Cotton	1980
Bert Lester Vallee	1981
Gilbert Stork	1982
John D. Roberts	1983
Elias J. Corey	1984
Donald J. Cram	1985
Jack Halpern	1986
Allen J. Bard	1987
Rudolph A. Marcus	1988
Richard B. Bernstein	1989
Richard N. Zare	1990
Gunther Wilke	1991
Harry B. Gray	1992
Peter B. Dervan	1993
M. Frederick Hawthorne	1994
Sir John Meurig Thomas	1995
Fred Basolo	1996
Carl Djerassi	1997
Mario J. Molina	1998
Lawrence F. Dahl	1999
Nicholas J. Turro	2000
Tobin J. Marks	2001
Ralph Hirschmann	2002
John I. Brauman	2003
Ronald Breslow	2004
David A. Evans	2005
Jacqueline Barton	2006
Sylvia T. Ceyer	2007
Carolyn Bertozzi	2008
Louis Brus	2009
Maurice Brookhart	2010
Robert G. Bergman	2011
Mark A. Ratner	2012
Charles M. Lieber	2013
John E. Bercaw	2014

The mission of the Chicago Section of the ACS is to encourage the advancement of chemical sciences and their practitioners.

REPORT OF ACS COUNCIL MEETING DALLAS, TEXAS MARCH 19, 2014

The following Chicago councilors were present: Cherlynlaughn Bradley, Charles E. Cannon, David Crumrine, Kenneth P. Fivizzani, Herbert S. Golinkin, Fran Karen Kravitz, Margaret Levenberg (alternate), Milt Levenberg, Inessa Miller and Susan M. Shih.

The Council meeting began with a resolution honoring those councilors, officers and staff who have passed since the last council meeting. The minutes from the Fall 2013 meeting were approved.

The **Committee on Nominations and Elections** (N&E) reviewed the use of the "clickers" for electronic voting. N&E opted to use this opportunity to ask two serious questions in place of the immaterial ones used in the past. The first question was:

Should transcriptions of Council proceedings appear on the screen during the meeting?

The result was 54% in favor and 46% against.

The second question, allowing 5 choices each, was:

Which of the following accommodations and/or assistive technologies do you currently use or would like to have available at Council meetings?

1. Printed materials (braille, magnification)
2. Presentation transcriptions (CART, Closed Captioning)
3. Accessible seating (Walking cane/crutch, scooter, wheelchair)
4. Personal assistance/guide
5. Sign language interpreter
6. Hearing aid
7. Hearing Loop
8. None of the above
9. Prefer not to answer

The result was that 53% voted for option 8.

N&E presented the nominees for the 2015 ACS President-Elect: Peter K. Dorhout, William A. Lester, Jr., Christopher K. Ober and Henry F. Schaefer III. Each candidate was given three minutes to present their statement. Council voted to accept Peter K. Dorhout of Kansas State University and William A. Lester Jr. of the University of California, Berkeley to be placed on the fall 2014 ballot mailed out to the membership as candidates for 2015 President-Elect, along with any petition candidates. A request was made for suggestions for 2016 Society directors and officers. Please send your suggestions to Mr. D. Richard Cobb, N&E chair, at nomelect@acs.org.

N&E announced the selection of nominees for Directors-at-Large for 2015-2017. These are Dawn A. Brooks of Eli Lilly & Co, William F. Carroll, Jr. of Occidental Chemical Corp, Barbara A. Sawrey of University of California, San Diego and Ellen R. Stechel of Arizona State University. These four along with any petition candidates will appear on a ballot in the fall from which the Councilors will elect two to serve.

Reports from officers included the following:

1. Diane Grob Schmidt, President-Elect discussed the new launch of the American Association of Chemistry Teachers (AACT) in the summer of 2014. This association will include teachers in grades K through 12. She also mentioned that her focus will address ways to increase the number of industrial members.
2. Marida Li Wu, Past President stated that the first of the ACS Symposium book, "Vision 2025: How to Succeed in the Global Chemistry Enterprise" was published and is available for purchase. The second book is currently being prepared. She discussed her continuation of her presidential theme of "Partners for Progress and Prosperity" and a new partnership in India.
3. Madeleine Jacobs, Executive Director announced that she will be retiring from the ACS at the end of 2014. She discussed the ACS on Campus made 29 visits to educational institutions outside the US in 2013. There has been a growth in membership which has seen more international members.
4. William F. Carroll, Jr, Chair of the Board of Director discussed that the Board is in the process of having a plan in place to find a new executive director to replace Madeleine Jacobs.

The **Council Policy Committee** (CPC) reported that invitations were sent to new councilors and alternate councilors. Thirty-nine of them took new councilor orientation as a webinar prior to this meeting and sixty-seven took it in person. Strategy Cafes have reached four hundred people.

The **Committee on Committees** (ConC) reported that eight new committee chairs went through orientation at the January Leadership Conference in Dallas. They also reminded councilors that in April, councilors need to fill out their online committee preference form via <https://www.yellowbook.acs.org>. Members are directed to send suggestions for committee appointments to Flint Lewis. CONC proposed, and Council approved, continuance of the Committees Chemical

Safety, Chemistry and Public Affairs, and Minority Affairs.

The **Committee on Budget and Finance** (B&F) recommended, and Council approved, to set the member dues for 2015 at the fully escalated rate of \$158. In 2013, ACS generated a Net from Operations of \$15.1 million, which was \$2.0 million favorable to the budget. This represents the ACS's tenth consecutive year of positive operating results.

The **Society Committee on Education** (SOCED) approved a pilot program to form ACS International Student Chapters. Such chapters, modeling after STUDENT MEMBER Chapters, will require an advisor who is an ACS MEMBER in good standing, and a minimum of six dues paying STUDENT MEMBERS.

The **Committee on Science** (ComSci) is finalizing recommendations to the ACS Board for the Presidential National Medal of Science. They have three on-demand video interviews with Nobel laureates available. Future topics the committee is planning include advance materials and chemistry for clean and renewable resources.

A special item that had a lot of discussion was "What Can ACS Do to Increase the Quality of Science Education in Grades 7-12?" that had a lot of discussion.

The **Committee on Membership Affairs** (MAC) authorized an individual member test for India for 2014 allowing a \$52 full Member dues rate. At this meeting, MAC extended the test to include new and renewing members in India for three years. The Code of Conduct (how members should act at national meetings) was discussed at the meeting. They have some new member programs, including Budget car rental services and discounts from Office Max.

The **Committee on Economic and Professional Affairs** (CEPA) announced that findings from the ACS 2013 New Graduate Survey reveal that overall unemployment among new graduates rose from 12.6% in 2012 to 14.9%. This is primarily due to the high unemployment among recent bachelors degree chemists. The overall unemployment rate for chemists has dropped to 3.5%.

The Career Fair in Dallas had 770 candidates seeking jobs. There were 30 employers in attendance, and 91 posted job openings. There was also the Virtual Career Fair at this meeting for which there were 861 job seekers, 7 employers, and 15 job positions available.

(continued on page 6)

(continued from page 5)

The **Committee on Meetings and Expositions (M&E)** received a good presentation on reinstating Chicago as a Tier I location for National ACS meetings due to a decrease in union costs. M&E has proposed the following locations for future National meetings: March, 2023 – Indianapolis; August, 2023 - San Francisco; March, 2024 - New Orleans; August, 2026 - San Francisco; March, 2029 - San Francisco. Having a contract for three meetings in San Francisco is expected to reduce the cost of the meetings to ACS.

The Dallas meeting had 13,680 registrants, including 5,140 students. 10,050 papers were presented. M&E voted to eliminate the author index in the hard program meeting program book beginning with the spring 2015 meeting. The searchable author index is now available via the mobile application and other electronic means.

The **Committee on Divisional Activities (DAC)** proposed a reallocation of the dues allotment among divisions. An amended version postponing implementation until 2015 allows planned programming for 2014 to proceed passed. Proposed meeting themes for the 2017 National meetings are Spring, San Francisco: Advanced Materials, Technologies, Systems and Processes; Fall, Washington, DC: *Chemistry's Impact on the Global Economy*.

The **Local Sections Activities Committee (LSAC)** will initiate the process to dissolve the Ocean County (New Jersey) Section as a result of the group's failure to meet the criteria to remain an active section. This will affect some 200 members. LSAC recommended, and Council approved, the annexation of the territory of the Monmouth County Local Section (defunct) to the North Jersey Local Section. South Plains local section celebrated their 50th anniversary. There were seven, including Illinois Heartland, celebrating their 75th anniversary. The Maryland section celebrated their 100th anniversary.

The **Committee on Constitution and Bylaws (C&B)** created a new, easier way for local sections and divisions to prepare bylaw revisions for C&B review. After a unit indicates its willingness to update its bylaws, C&B will offer to create a first draft of proposed bylaw changes for consideration by the unit. Alternatively, the unit may still propose its own draft changes for C&B review. The first draft created by C&B will be available for modification by the unit.

The **Chemical Safety Committee (CCS)** has published its first-ever Safety Alert concerning the Rainbow Demonstration, in Chemical and Engineering News, March 17, 2014. Copies were distributed to Councilors. CCS has created a task force on Safety Education Guidelines.

The **Committee on Chemists with Disabilities (CWD)** has updated and digitized its publication *Teaching Chemistry to Students with Disabilities*. It will be available in April 2014.

The **Committee on Community Activities (CCA)** in conjunction with the ACS Department of Volunteer Support produced *Celebrating Chemistry*. Local Sections can order up to 750 copies of this publication for Chemists Celebrate Earth Day.

The **Committee on Minority Affairs (CMA)** reminded Councilors that the ACS Scholars Program is celebrating its twentieth anniversary in 2015. The program has enabled 1,400 students to achieve university degrees in the chemical sciences. CMA will highlight accomplishments and successes of the Scholars Program throughout the year. The International Activities Committee (IAC) proposed, and Council approved, the establishment of two International Science Chapters. These are the Malaysia and South Korea International Science Chapters.

If you have any questions and/or comments about the above actions, please contact one of your section's councilors.

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SECTION MEETING DATES 2014

Friday, May 16
Thursday, June 19
Friday, September 19
Friday, October 24
Thursday, November 20
Friday, December 5

CALENDAR

May 16: Chicago Section ACS Willard Gibbs Award Banquet. **Dr. John Bercaw, Caltech**, will receive the 2014 Willard Gibbs Medal. **See details in this issue.**

May 24: Tentative date for the Younger Chemists Committee (YCC) event, "Careers in Chemistry," a poster session/mock interview/resume review event. Further information as the day approaches. Contact Beau at pwangtrakuldee@niu.edu or Alyssa at ajavestro@u.northwestern.edu for details.

June 17-19: The 18th Annual Green Chemistry & Engineering Conference (GC&E), Washington DC metro area. The theme is "Advancing Chemistry, Innovating for Sustainability." For details, visit http://www.gcande.org/?cid=em_gci_epa_1_15_14

August 8-17: ACS Illinois Sections' cooperative science tent project at the Illinois State Fair in Springfield. For further information on this fun and worthwhile outreach activity, contact the section office at 847-391-9091. Also, visit website <http://chicagoacs.org/statefair/index.html>

September: A Younger Chemists Committee (YCC) event, Meet the Neighbors, a "speed-networking" event to showcase the chemistry being done by local chemists within YCC, followed by a networking social hour. Further information as the date is set. Contact Beau at pwangtrakuldee@niu.edu or Alyssa at ajavestro@u.northwestern.edu for details.

September: A Younger Chemists Committee (YCC) event, "Future Faculty Workshop." Further information as the date is set. Contact Beau at pwangtrakuldee@niu.edu or Alyssa at ajavestro@u.northwestern.edu for details.

September: A Younger Chemists Committee (YCC) event, "Fall Fellowships Digest." Further information as the date is set. Contact Beau at pwangtrakuldee@niu.edu or Alyssa at ajavestro@u.northwestern.edu for details.

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DO YOU KNOW ABOUT THE 103RD J. WILLARD GIBBS AWARD DINNER ON FRIDAY, MAY 16, 2014 AT MERIDIAN BANQUETS, ROLLING MEADOWS, IL?

For just \$50, you get the following:

- an internationally renowned chemist, John Bercaw of Caltech, 2014 Gibbs Award Winner, giving a talk about his fascinating research titled "Hydrocarbon Upgrading to Fuels and Chemicals: Progress towards Homogeneous Catalysts"
- a great dinner including appetizers, wine, and 2 drink tickets!
- the opportunity to network with chemists excited about meeting you

Join us for a social hour that begins at 6 PM (with hors-d'oeuvres and 2 drink tickets), dinner at 7 PM, and Dr. Bercaw's talk beginning at approximately 8:30 pm.

Dinner Menu includes
Cream of Tomato Basil Bisque
with Bleu Cheese
Meridian Salad

WITH A CHOICE OF
Roast Top Sirloin of Beef with
rosemary merlot sauce
Fresh Broiled Norwegian Salmon
with dill sauce
Portobello Mushroom with
zucchini

and Hot Fudge Brownie à la mode

Reservations are required. Please register at our website or call the Chicago Section office at 847-391-9091 by Monday, May 12 and pay \$50 at the door. No refunds will be made after noon on Monday, May 12, 2014.

Please come to salute the recipient and rejoice in Dr. Bercaw's achievements and his contributions to the science of Chemistry. Join us for this gala event!

After all, where else can you hear a Great Chemist AND get a Hot Fudge Brownie à la mode!

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JOIN US AT THE FAIR!

The Chicago Section, jointly with the other ACS Illinois Sections, again plans to have an exhibitor's tent at the Illinois State Fair **August 8-17** in Springfield, IL. Our cooperative tent activities provide information to the public on chemistry with demos, hands-on activities, computer quizzes, posters, literature, and give-aways. They give us a chance to show the positive aspects of chemistry to many Illinois citizens and governmental leaders. **Last year, we had a record number of more than 15,900 people visiting our tent!**

We particularly need volunteers to help during the fair. **Student members and other student volunteers are welcomed!** If you are interested in helping us for a few hours in this fun and worthwhile science outreach activity, let us know! You will receive free admission to the Fair and free parking if you sign up to volunteer in time! Call the Section office at (847) 391-9091 and go to our website at <http://chicagoacs.net/statefair/index.html> for information and to sign-in using our online volunteer scheduler.

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