



Double Bond

The Newsletter of the Western New York Section of the American Chemical Society

Volume 78

September 2006

CELEBRATING 100 YEARS

On September 6th, more than 60 ACS members boarded the Miss Buffalo II to celebrate the first complete 100 years of the Western New York section of the ACS. Successfully organized through the efforts of Mary O'Sullivan, Peter Schaber, and Alice Steltermann, the first hour of the tour included a narration of Buffalo's historical significance in the grain industry by members of the Industrial Heritage Committee. One of the highlights of the tour included a viewing of the often unseen large collection of grain silos that dot the landscape along the Buffalo River. From the diverse collection of silos present, the developmental evolution of the grain silo could be observed. In addition, it was revealed that Buffalo's contribution to the grain industry also included the invention of the grain elevator in 1842. After the enlightening tour, the Miss Buffalo II set off for Lake Erie and during this time all aboard enjoyed a delicious dinner buffet. As the ship cruised toward the Niagara River, spectacular views of the downtown Buffalo skyline were afforded. The evening culminated with a superb lecture presented by Joseph Bieron, which focused on aspects of the chemical industry in Buffalo at the end of the 19th century.

Phillip Sheridan
Canisius College
Department of Chemistry and Biochemistry

LOCAL SECTION ELECTIONS

Your ballot for election of 2007 officers is enclosed

This issue of The Double Bond includes brief biographical statements from the candidates for officer positions this fall. Please take the time to return your ballot and show your interest in local chemistry affairs.

The deadline for email or paper ballots (postmark) is:
September 29, 2006
See pages 24-25

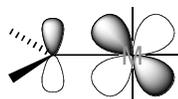
FROM THE EDITOR

Greetings Western New York,

Welcome back to a new autumn and a new chemistry season. I would like to give a big Thank You to the organizers and participants in our Local Section 100th year celebration. We've certainly seen plenty of the history of industry and chemical enterprise in our area. We should all take pride in those "old days" but work just as hard to champion great leadership, education and enterprise in the next century.

I should also put in a plug for supporting the local section in the current elections for officers for 2007. The voting process is simple, since we have authorized email balloting. Send either the printed ballot with your votes indicated, or email the text of the ballot with your votes added to me.

Timothy Gregg
Department of Chemistry and Biochemistry
Canisius College
Buffalo, NY 14208-1098
(716) 888-2259
greggt@canisius.edu



WNY ACS ELECTIONS

The following positions in the executive board of the Western New York Section of the American Chemical Society will be filled for terms running during 2007:

Chair
Vice-chair
Secretary
Councilor
Member-at-Large (South)

The candidates for each office are listed below along with a brief statement from each candidate.

Chair: Greg Shafer

My interest in science started as early as I can remember in my home town of Aurora, Illinois. I found enjoyment in all my science classes in high school and, at Bradley University in Peoria, Illinois, decided chemistry was my field. I took every chemistry course offered and became involved in our local chapter of the ACS. After graduating with a chemistry B.S. in 1991, I went to Clemson University, initially involved in inorganic chemistry studies of transition metal complexes. At Clemson University, I had the great opportunity of meeting Professor Darryl D. DesMarteau and found myself highly interested in synthetic fluorine chemistry. I soon began working under Professor DesMarteau studying fluorine chemistry and researching fluoropolymers. After earning my Ph.D. from Clemson University I went to Toyota Central R&D in Nagoya, Japan, developing new fluoropolymer electrolytes. I enjoyed many aspects of Japan and after 4 years returned to the USA to work at Honeywell International in Buffalo, NY. I am currently researching new fluoropolymer materials at Honeywell's Buffalo Research Labs and again establishing my ties to the ACS.

Vice-Chair: Sherry Chemler

Sherry Chemler has been Assistant Professor of Chemistry at the University at Buffalo, SUNY since the summer of 2002. Prior to arriving in Buffalo, she completed her Ph.D. in chemistry at Indiana University and held an NIH-funded postdoctoral fellowship at the Memorial Sloan-Kettering Cancer Institute in New York City. Her research at UB is focused on the development of new reactions for the synthesis of nitrogen heterocycles with a particular emphasis on copper-facilitated reactions. The research projects can be categorized as reaction methods, target-oriented organic synthesis and medicinal chemistry. She has an active, NIH-funded research group composed of graduate, undergraduate and postdoctoral researchers. She also

currently serves as co-director of UB's Chemistry Research Experience for Undergraduates program sponsored by the NSF.

Secretary: Mary O'Sullivan

Mary O'Sullivan has been the Secretary of the WNY ACS for the past 6 years. She is a Professor in the Department of Chemistry and Biochemistry at Canisius College, where she teaches organic chemistry and conducts research aimed at developing novel anti-parasitic agents (specifically, anti-trypanosomal agents). Before moving to Buffalo, Mary was an Associate Professor of Chemistry at Indiana State University.

Councilor: David Nalewajek

David Nalewajek is currently a Senior Principal Scientist at Honeywell International (formerly AlliedSignal). He received his B.S. in chemistry from Canisius College in 1974 and his Ph.D. from the State University of New York at Buffalo in 1978. His postdoctoral was spent at AT&T Bell Laboratories where he researched the design and synthesis of multidimensional superconductors. His current research interests are directed towards the development of photo-optic materials, organic dielectrics, and single-site catalysts. He currently holds 58 U.S. Patents.

Dave has been active in community outreach activities since his return to WNY in 1980, serving as lecturer/demonstrator at the Buffalo Museum of Science and at local elementary schools. Within the WNY-ACS organization, he has held positions of member-at-large, vice-chair, chair-elect and chair. He has served as councilor for this Section since 1992. In addition, Dave has served two terms as chair of the Schoellkopf committee and was the recipient of the Schoellkopf award in 2003. Dave is currently chair for National Chemistry Week where has served as chair/co-chair since its inception.

Member-at-Large (South): William Sullivan

I am a lifelong resident of WNY and have lived in Cheektowaga for the past 35 years. I am an analytical chemist with over 25 years experience. I'm currently employed in that capacity by Praxair in their R&D group. I have worked for a number of employers over the years, and have been an ACS member for 23 years.

To vote for 2007 officers, please use the ballot found on page 25 either printed out or pasted into an email, and forward your ballot before September 29, 2006 to Timothy Gregg, WNY ACS Newsletter Editor.

**BALLOT FOR 2007 OFFICERS OF THE
WESTERN NEW YORK SECTION OF THE
AMERICAN CHEMICAL SOCIETY**

Chair (Vote for 1)

Greg Shafer

Vice-chair (Vote for 1)

Sherry Chemler

Secretary (Vote for 1)

Mary O'Sullivan

Councilor (Vote for 1)

David Nalewajek

Member-at-Large (Vote for 1)

William Sullivan

Please **SELECT** and **COPY** the above ballot text to an email and **type X's** beside the names of the candidates you wish to vote for (you may have to click on the "Select" tool in Adobe Reader in order to copy text).

Forward the email to: greggt@canisius.edu before the **Voting Deadline: September 29, 2006**

To vote by paper, the old-fashioned way, print and detach the above ballot, mark your votes with an X and send the ballot to the editor:

Timothy Gregg, WNY ACS Newsletter Editor
Dept. of Chemistry and Biochemistry
Canisius College
2001 Main St.
Buffalo, NY 14208

Postmark Deadline: September 29, 2006

CALL FOR NOMINATIONS

THE GUSTAVUS JOHN ESSELEN AWARD

The Esselen Award for Chemistry in the public interest is one of the most prestigious honors provided by the Northeastern Section of the American Chemical Society. The award annually recognizes a chemist whose scientific and technical work has contributed to the public well-being, and has thereby communicated positive values of the chemical profession. The Awardee should be a living resident of the United States or Canada at the time of nomination, and the significance of this work should have become apparent within the five years preceding nomination.

The nomination announcement summarizes the nature of the award and the criteria and procedure for nominations. Please consult the online nomination announcement for details.

www.nesacs.org/Awards/Esselen/esselen.html

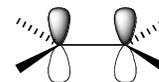
**NATIONAL CHEMISTRY WEEK:
"YOUR HOME—IT'S ALL BUILT ON
CHEMISTRY"**

National Chemistry Week (NCW) will be here before we know it. Each year the American Chemical Society's NCW campaign reaches millions of people with positive messages about the contributions of chemistry to their daily lives. It is the one time during the year that chemists unite with the common goal of spreading the word that chemistry is good for our economy, our health, and our well-being. The celebration dates for 2006 are **October 22 – 28**. Theme: **Your Home—It's All Built on Chemistry**.



Planning starts long before NCW arrives, and anyone interested in the activities going on in the Western New York local section should contact NCW coordinator David Nalewajek at (716) 827-6303 or david.nalewajek@honeywell.com.

Please join the celebration!



**CHOOSING A GRADUATE SCHOOL? NEED TO
KNOW WHO IS DOING RESEARCH CRITICAL
TO YOURS?**

Consult the DGRweb, which is the searchable, online version of the ACS Directory of Graduate Research (DGR), now available free of charge at <http://chemistry.org/education/DGRweb>. The ACS Directory of Graduate Research is the most comprehensive source of information on chemical research and researchers at universities in the U.S. and Canada. Using this online directory, one may search for both faculty and institutions. Search for faculty includes specific research area, academic rank, gender, and state, and the search results produce complete contact information for faculty including direct links to faculty email addresses and web pages. Institutional searches provide all departmental contact information along with statistical data on the number of faculty and students in the department and a complete list of faculty active in graduate research. DGRweb 2005 also includes access to the complete 1999, 2001, and 2003 databases.

*CALL FOR NOMINATIONS***2008 ACS NATIONAL AWARDS**

The American Chemical Society Awards Program is one of the means by which the Society meets its obligation "to encourage...the advancement of chemistry in all its branches, the promotion of research in chemical science and industry, [and] the improvement of the qualifications and usefulness of chemists." The continuing excellence of the ACS awards program requires that a number of highly qualified chemistry professionals be nominated and that great care be taken in preparing the nominations.

Note that starting with this award cycle, the timeframe and deadline for submitting nominations has changed. The deadline for receiving nominations for the 2008 ACS Awards is November 1, 2006.

Nominating Procedure for ACS National Awards:

- Nominations for 53 national awards administered by the ACS to be presented in 2008 are being solicited.
- Forms for nominations and supporting information, and a detailed description of ACS national awards are available at <http://chemistry.org/awards>.
- Any individual may submit a nomination for an award, unless that individual is a member of the selection committee for the same award. However, selection committee members may submit nominations for other awards.
- Nominations and inquiries concerning awards should be directed to the Office of the Awards Programs, awards@acs.org.

The deadline date for all nominating material for 2008 ACS National Awards is November 1, 2006. Earlier transmittal is encouraged.

**60 YEARS AGO IN THE DOUBLE BOND**

The following appeared in The Double Bond,
May 1946.

**AMPHIBOLE FILTERING ASBESTOS
BAKER PROCESSED, NOW AVAILABLE****Long Fibered Ignited Grade
Anhydrous, insoluble in acids**

After 207 tests of various lots of amphibole asbestos, we are glad to inform chemists that we have an unusually fine supply, which meets Baker's rigid specification standards. This hard-to-get amphibole filtering asbestos is available to you in both long and medium fiber, and in two grades—Washed and Ignited-washed for Gooch crucibles.

Both grades are supplied from carefully selected and graded American amphibole asbestos, both are white in color, fluffy, with good body—ideal for removing precipitates. Both are carefully washed in acid and then rewashed in distilled water and thoroughly dried. The ignited grade saves preliminary ignition in the laboratory.

Prices are extremely low for this superior filtering medium. Knowing the importance to each and every chemist of securing amphibole filtering asbestos, we are happy to interrupt our regular advertising to give you this important news.

J. T. BAKER CHEMICAL CO.

Baker's analyzed C.P. chemicals are sold in your area by

BUFFALO APPARATUS CORPORATION, BUFFALO, NY
WILL CORPORATION, ROCHESTER, NY

*Be Sure to Mention the Double Bond When Writing to
Our Advertisers*

WNYACS Officers & Staff**Chair**

David Hoth
Honeywell
(716) 827-6263 (w)
david.hoth@honeywell.com

Chair Elect**Vice-Chair**

Greg Shafer
Honeywell
(716) 827-6307 (w)
gregory.shafer@honeywell.com

Secretary

Mary O'Sullivan
Canisius College
(716) 888-2352 (w)
osulliv1@canisius.edu

Treasurer

Andrew Poss
Honeywell
(716) 827-6268 (w)
andrew.poss@honeywell.com

Councilor

Peter Schaber
Canisius College
(716) 888-2351 (w)
schaber@canisius.edu

Councilor

David Nalewajek
Honeywell
(716) 827-6303 (w)
david.nalewajek@honeywell.com

Double Bond Editor

Timothy Gregg
Canisius College
(716) 888-2259 (w)
greggt@canisius.edu

Schoellkopf Award

Peter Schaber
Canisius College
(716) 888-2351 (w)
schaber@canisius.edu

Education Committee

Ronald Spohn
Praxair
(716) 879-2251 (w)
ronald_spohn@praxair.com

Chemistry Olympiad

Mariusz Kozik
Canisius College
(716) 888-2337 (w)
kozik@canisius.edu

National Chemistry Week

David Nalewajek
Honeywell
(716) 827-6303 (w)
david.nalewajek@honeywell.com

Senior Chemists

Joseph Bieron
Canisius College
(716) 888-2357 (w)
bieron@canisius.edu

Member-at-Large South

William Sullivan
Praxair, Inc.
(716) 879-7794 (w)
william_sullivan@praxair.com

Member-at-Large North

Robert Keem
Invitrogen
(716) 774-0204 (w)
robert.keem@invitrogen.com

Double Bond Assistant Editor

Alice Steltermann
Canisius College
(716) 888-2340 (w)
stelster@canisius.edu

ISSUE COPY DEADLINE: FIRST OF MONTH PRIOR TO PUBLICATION

The Western New York Section of the American Chemical Society (ACS) and its editors assume no responsibility for the statements and opinions advanced by the contributors. Views expressed in the editorials are those of the authors and do not necessarily represent the official position of the Western New York Section of the American Chemical Society. All materials to appear in the next issue of *Double Bond* must be received by the Editor, in care of the Chemistry Department, Canisius College, 2001 Main Street, Buffalo, New York 14208, by the FIRST day of the month. Notice for change of address should be made through ACS Member and Subscriber Services at (800) 333-9511 or the website, www.chemistry.org/contactus.html.

The *NF=B Double Bond* (aka *Double Bond*) is published from September through June by the WNY Section of the ACS. Contact information: email: dblbond@canisius.edu; website: membership.acs.org/W/WNY. Member subscriptions are included in the annual National ACS dues. Permission to reprint is granted for this publication.