

# theCHEMICALbulletin

## CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

### EDUCATION NIGHT

**FRIDAY, JUNE 23, 2000**

STEVEN'S  
476 N. York Road  
Elmhurst, IL

#### DIRECTIONS TO THE MEETING

**From Downtown Chicago:** Take Eisenhower Expressway (290) west to York Road. Exit north. Take York Road north to Stevens, which is on the west (left) side of street.

**From the North:** Take 294 South to 290 West Rockford. Exit York Road and turn right (south). Proceed to Steven's, located one block down on the west (right) side on York Road.

**From the West:** Take North Ave. east to York Road. Turn right (north) and go approximately 2 miles to Steven's, which is on the left-hand side on York Road.

#### FREE PARKING

#### TOPICAL MEETING 5:00-6:00 PM

#### Location (minutes from Stevens)

ELMHURST COLLEGE SCIENCE CENTER  
190 Prospect Avenue  
Elmhurst, IL

#### Directions

**FROM CHICAGO:** Take Interstate 290 west to St. Charles Road West and proceed to Prospect Avenue. Turn right on Prospect Avenue. The Science Center with parking is on the corner of Prospect and Church.

**FROM THE SOUTH:** Take Interstate 294 north to Interstate 290 West (to Rockford) and follow directions above.

**FROM THE NORTH:** Take Interstate 294 south to the exit marked "I-290 West/ U.S. 20-Lake/ Ill. 64- North Avenue". Exit immediately at "Ill 64-

North Avenue" and proceed west approximately 1.5 miles to Maple Avenue. Turn left on Maple Avenue and proceed across the tracks to the campus. (Maple Avenue becomes Prospect Avenue south of the tracks. The Science Center with parking is on the corner of Prospect and Church.

Dr. Kathleen Carrado, Argonne National Laboratory, Argonne, IL, "The Chicago ACS Elementary Education Committee: A Retrospective"

See abstract and speaker biography on page 2.

#### SOCIAL HOUR 6:00 - 7:00 PM

#### DINNER 7:00 PM

Dinner reservations are required and should be received in the Section office (847/647-8405) by noon on Tuesday, June 20, 2000. Dinner cost is \$22 to Section members who have paid their local section dues, members' family and visiting ACS members. The cost to non-Section members is \$24. Seating will be available for those who wish to attend the meeting without dinner. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinners ordered. No-shows will be billed.

The menu consists of Clam Chowder, tossed salad with choice of dressings, Chicken Brochette, baked potato, green beans almondine, rainbow sherbert, and beverage. A Fish entrée (Boston Scrod) is available upon request at the time of reservation.

#### GENERAL MEETING 8:00 PM

#### The Topic

David Piazza, Naperville Surgical Association, "Why Palms are Pink and Poop is Brown."

#### THE SPEAKER

Dr. David Piazza is doubly boarded in general surgery and colon and rectal surgery and has been in practice in Naperville since 1991. He went to medical school at Loyola Stritch School of Medicine, and completed his residency in general surgery at the University of Illinois, Metropolitan Group Hospitals, in Chicago. He did a Fellowship in colon and rectal surgery at the University of Illinois at Urbana-Champaign, Carle Clinic and at the same time was serving as Trauma Surgeon at the Carle Clinic

*(continued on page 2)*

#### JOB CLUB

The next meeting of the Chicago Section Job Club will be held on Friday, June 23 at Stevens at 5 p.m. The Job Club provides a continuing opportunity for unemployed members of the Section to meet with one another, share their experiences and develop a network that may help in identifying employment opportunities. Bring plenty of resumes and business cards to distribute to your colleagues.

Should you wish to attend the Section meeting following the Job Club, the fee for unemployed members is only \$11 and you can continue your networking activities. Please call the Section office for reservations and indicate that you are eligible for a discount.

#### AVAILABLE NOW!

**REGISTER TO ATTEND  
MONTHLY SECTION MEETINGS**

**ON LINE**

at  
<http://membership.acs.org/C/Chicago>

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Level Two Trauma Center. He also was instrumental in establishing the advanced laparoscopic techniques at Edward Hospital. He sits on the Trauma Critical care and Cancer Committees at Edward Hospita

## TOPICAL GROUP INFORMATION

### Abstract

In her presentation, Dr. Carrado will detail some of the activities in these columns and provide anecdotal details on their history and development. The other interests of the EEC (especially from the earlier years) will also be highlighted, and an activity involving the period

### Biography

Dr. Kathleen Carrado received her Ph.D. in Chemistry in 1986 from the University of Connecticut, whereupon she went to Argonne National Laboratory for a post-doctoral appointment. She was hired as permanent staff in 1989 and has remained at Argonne ever since. Her field of research involves clay materials as catalyst supports, nanocomposites, and environmental adsorbents, which has resulted thus far in nearly 50 articles and patents. Dr. Carrado has been active in the ACS as the Chair of the Fuel Chemistry Division (1999) and as Chair of the Elementary Education Committee (EEC) of the Chicago Section since 1993, having been a member of this committee since its inception in 1990.

It is in this latter role that Dr. Carrado became involved with editing the "ChemShorts for Kids" column for the Chicago Bulletin. Nearly 90 columns have been published since 1992.

## COMMITTEES OF THE CHICAGO SECTION, ACS

The Chicago Section is more than the officers and the Board of Directors. It is you, the members of the Chicago Section. The many programs and services that are provided by the Chicago Section are provided by the committees of the section. Each year at this time, we recognize the committees and their membership. Below are given all the committees in the Chicago Section. Those committees without names listed, may have been active, but no information was received for publication.

Thank you to all those who volunteered their time and talents during the last year.

### Awards

#### Chemical Health and Safety

Larry Berman, Co-Chair  
Steve Sichak, Co-Chair

Rudy Bernath  
Terry Ellis III

#### Chicago Chemistry Week

Thomas Kucera,  
David Crumrine,  
Carl Anderson  
Larry Berman  
Charles Cannon  
Louis Defilippi  
John Dykla  
Lan Le Janatka  
Jennifer Jaworski  
Angela Kowalski  
Marilyn Kramer  
Dorothy Lamb  
Larry LeGrand  
Avrom Litin  
Funmi Moka  
Sharon Northup  
Gayle O'Neill  
Chad Perrott  
Darryl Prater  
Amy Rehnstrom  
Otis Rothenberg  
Rajashree Sen  
Stephen Sichak  
Brian Steinkamp  
Tim Thomas  
James Webb  
Angela Zagala

#### College Education

Charles Cannon,  
John L. Albazi  
Richard Cornell  
Paul Feng  
Michael Mimnaugh  
Gayle O'Neill  
Paul Poskozim  
James Shoffner

#### Continuing Education

Fred Turner,  
Marsha Phillips,

#### Elementary Education

Kathleen A. Carrado,  
Barb Moriarty

#### Employment

Robert Shone,  
Anthony Tousaint,

#### Endowment

#### Gibbs Arrangements

Margaret Stowell Levenberg,

#### High School Education

Ann Levinson,  
David Crumrine  
Daniel Graham  
Victoria Kaufman  
Ami LeFevre  
Darryl Prater  
Elizabeth Watkins

Larry Thielen

Co-Chair  
Co-Chair  
Charlotte Anderson  
Angie Boerger  
Daria Darczak  
Ben Dickow, MSI  
Alexander Ho  
Wade Jarrell  
Dmitry Koltun  
Walter Kramer  
John Krikau  
Marty Landorf  
Ann Levinson  
Debbie Mentz  
Barbara Moriarty  
Frank Omana  
Seymour Patinkin  
Marsha Phillips  
Julie Pugliese  
Scott Riley  
Adele Rozek  
James Shoffner  
Verneta Simon  
Larry Thielen  
Fred Turner  
Rhonda Wood  
Mike Zemlan

Chair  
Allison Aldridge  
David Crumrine  
Herbert Golinkin  
Barbara Moriarty  
Marsha Phillips  
Darryl Prater

Co-Chair  
Co-Chair

Chair  
Milt Levenberg

Co-Chair  
Co-Chair

Chair  
Dottie Fugiel  
Arnold Guttman  
Marty Landorf  
Glenn Lid  
Fred Turner

#### Hospitality

Connie Buenvenida,  
Milt Levenberg  
Sharon Northup  
Margaret Levenberg

Chair  
Barb Moriarty  
Marsha Phillips  
Larry Berman

#### House

Cherlyn Bradley,  
Adele Rozek,  
Richard Cornell

Co-Chair  
Co-Chair  
Marsha Phillips

#### Membership Affairs

#### Minority Affairs

Darryl Prater,  
Ayoola O. Alabi  
Kenneth E. Booker  
Louis Drish  
Austin Ferguson  
Kimberly A. Gray  
Mumtaz Hussain  
Charlotte Lee  
Luis Nunez  
Marsha A. Phillips  
Arthur J. Sanders  
Rajashree Sen  
Z. H. Tringleth-Anderson

Chair  
Allison Aldridge  
Charles Cannon  
Ignatius Egwu  
Nathaniel L. Gilham  
Lamont Grayned  
Woody Johnson  
Melanie Nichole Lymon  
Seymour Patinkin  
Paul Poskozim  
Berta A. Salazar  
James P. Shoffner  
Anthony Toussaint

#### Professional Relations

#### Program

Diane Kozelka,  
Bob Buntrock

Chair  
Angela Kowalski

#### Public Affairs

Jim Shoffner,  
Barb Moriarty,  
Larry Berman  
Pat Floeter  
Anne Kemp  
Fran Kravitz  
Marsha Phillips  
Ed Seidman  
Larry Thielen

Co-Chair  
Co-Chair  
Mike Cherskov  
Roger Ginger  
Angela Kowalski  
Mary Kay Perry  
Guy Rosenthal  
Rajashree Sen  
Angie Young

#### Public Relations

Marsha Phillips,  
Shanita Certain  
Tokela Gore  
Gayle O'Neill  
Elliot Poole  
Maria Segura  
Dulce Valle

Chair  
Doris Gaylor  
Elizabeth Heredia  
Elva Ortiz  
Sheilka Robinson  
Desire Thigpen

#### Kids and Chemistry

#### Long Range Planning

#### Middle Grades/Jr High

Marsha Phillips,  
Shanita Certain  
Tokela Gore  
Gayle O'Neill  
Elliot Poole  
Maria Segura  
Dulce Valle

Chair  
Doris Gaylor  
Elizabeth Heredia  
Elva Ortiz  
Sheilka Robinson  
Desire Thigpen

#### National Affairs

M. Stowell Levenberg, Chair and Alternate

## "CHEM SHORTS" For Kids

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

### Testing the Texture of Toothpaste

Kids, chemistry is so common that it can even be found in toothpaste. Chemists have worked hard to come up with the perfect stuff. Read the labels - you'll find out all kinds of interesting things. Here you'll find some information plus learn some tests you can do to compare different brands.

What are the active ingredients in toothpaste? There is fluoride of course, either as sodium fluoride or sodium monofluorophosphate. Fluoride reverses the process of tooth decay where acids (especially from sugar) dissolve minerals right out of the teeth. There are antibacterial agents such as triclosan to control plaque and antitartar agents to control mineralized plaque. Other, inactive or inert, ingredients are water, detergents (to loosen plaque), binders (keeps solid and liquid ingredients together), humectants (to keep it moist in the tube), flavoring, preservatives (to stop bacteria from growing on the other stuff), and abrasives (for cleaning and polishing).

Using the tests that follow, you will use inquiry to observe, collect data, and make informed decisions related to consumer choices. You'll need toothpicks, 4-5 brands of toothpaste, a toothbrush, and also a microscope would be great. Prepare a chart listing the brands of toothpaste with sections for texture by "touch", "taste", and "microscope". Rub a bit of each brand between your fingers and note whether it feels smooth, gritty, etc. Then brush your teeth with each brand and record the texture by taste. Next, using a toothpick, smear some toothpaste on a microscope slide, add a drop of water, and put on a coverslip. View the slide in a microscope and draw a picture on your chart of what it looks like. Now compare all the brands for texture, grit, and appearance. Which would you choose, and why? Why is this better than just using water to brush your teeth?

What do you suppose the abrasives are? This grit is often silica, alumina, calcium carbonate or sodium bicarbon-

ate. Chemists are able to make toothpaste clean, polish, and protect your teeth, plus make it taste good and sit up on your toothbrush, too!

References: [www.bda-dentistry.org.uk/factfile/fact06.html](http://www.bda-dentistry.org.uk/factfile/fact06.html); Renee B. Adams' experiment at [www.ael.org/eisen/toothps.html](http://www.ael.org/eisen/toothps.html); "Squeezing out a better toothpaste" by M. Prencipe, K. P. Thomas, J. G. Masters, and J. Norfleet in *ChemTech*, Dec. 1995 ([pubs.acs.org/hotartcl/chemtech/95/dec/dec.html](http://pubs.acs.org/hotartcl/chemtech/95/dec/dec.html)).

Submitted by: K. A. Carrado, Elementary Education Committee.

Past "ChemShorts" are on the internet at: <http://membership.acs.org/C/Chicago/ChmShort/kidindex.html>

### Committees (cont from page 2)

S. Angelos, Alternate	L. Berman, Alternate
R. Bible, Councilor	C. Bradley, Councilor
B. Buntrock, Councilor	C. Cannon, Alternate
J. Doheny, Councilor	N. Gilham, Councilor
H. Golinkin, Alternate	R. Johnson, Alternate
M. Kouba, Alternate	F. Kravitz, Councilor
T. Kucera, Councilor	C. Lucchesi, Councilor
B. Moriarty, Councilor	S. Northup, Alternate
G. O'Neill, Alternate	S. Patinkin, Councilor
M. Phillips, Councilor	A. Rozek, Alternate
J. Shoffner, Councilor	S. Sichak, Councilor
L. Thielen, Alternate	F. Turner, Alternate

### Project SEED

Cherlyn Bradley,	Co-Chair
Charles Cannon,	Co-Chair
Marsha Phillips	

### Topical Groups

Margaret Stowell Levenberg,	Co-Chair
Dave Crumrine	Co-Chair
Sharon Northup	

### Younger Chemist Committee

Allison Aldridge,	Chair:
Linda Kennedy	Tomasa Ramos

### Chemical Bulletin

Fran Karen Kravitz,	Editor
Barbara Moriarty,	Editor
Sanford Angelos,	Editor
Larry Berman	Cherlyn Bradley
Bob Buntrock	Charles Cannon
Kathleen Carrado	Angela Kowalski
Diane Kozelka	Tom Kucera
M. Stowell Levenberg	Milt Levenberg
Ann Levinson	Claude Luchhesi
Jim Michels	Gayle O'Neil
John Pivinski	Jim Shoffner
Steve Sichak	Ellen Sullivan

### Chicago Section Web Page

Milt Levenberg,	Web Master
M. Stowell Levenberg,	Liaison
Bob Buntrock	Kathleen Carado

## CHAIR'S COLUMN

How time flies. It seems like only a short time ago that I wrote my first column as Chair of the Chicago Section ACS. On June 23, I'll pass the gavel to Sharon Northup, your Chair for 2000-2001. I hope the all members of the Section will continue to support Sharon and her administration even more than you've supported the current administration.

Volunteerism may not be dead, but the concept is under a great deal of pressure for a number of reasons including competition for available free time between the demands of job, family, and other organizations. I hope that you, as members of the Chicago Section, can find time to participate in activities associated with the ACS in general and the Chicago Section in particular.

I have some suggestions on how you could help the Chicago Section and the profession of chemistry.

**Survey.** The Chicago Section is long overdue for a survey of the membership and hopefully one will be submitted to the membership later this year. Don't like when we meet? Tell us about it, but please also offer alternatives. Would you like different meeting formats, including meetings for the family or informal meetings (e.g., pizza parties)? Tell us. Other things you'd like us to do? Let us know.

**Outreach.** Many opportunities are available. The ACS and the Section help local organizations to sponsor Kids and Chemistry presentations. If your organization participates, join in the fun. If it doesn't, plan to start a program.

Other possibilities exist. Participate in National Chemistry Week. Better yet, help the Section to present NCW activities.

**Education.** Although we've tried to contact all colleges located in the Section about their ACS Student Affiliate Groups, only a few have responded. Apparently, a common problem is that student leadership is spread too thin. Visit the page for student affiliates (<http://membership.acs.org/C/Chicago>)

An additional incentive for ACS Student Affiliate membership: reduced registration fees at ACS national meetings. Student rates for non-affiliates are now sufficiently higher.

Thanks again for a great year. Please consider being more active in the Chicago Section by attendance at meetings, participating in committee activities, or whatever. Remember, you'll get back more than you put in.

Bob Buntrock  
Chair, Chicago Section, 1999-2000

## CALENDAR

**August 20-24, 2000.** The 220th American Chemical Society National Meeting will be held in Washington, DC.

**October 6, 2000.** Northwestern University and the Chicago Section American Chemical Society celebrate the Basolo Medal. For additional information call the Section Office at (847) 647-8405.

**October 19-20, 2000.** Professional and Analytical Consulting Services (PACS) will present a conference on Sampling, On-Site Analysis and Sample Preparation in Pittsburgh, PA. For more information contact Barbara Sherman, PACS at (724) 457-6576 or (800) 367-2587.

**October 25-28, 2000.** The 35th Midwest Regional Meeting will be held in St. Louis, MO. The meeting, hosted by the St. Louis Section, will be held at the King Henry VIII Hotel located on Lindbergh Blvd, one-half mile north of I-70 and one mile south of I-270. The hotel is located 5 minutes from Lambert International Airport. For more information visit the meeting web site at <http://www.umsl.edu/~acs/mrm.html>.

**November 17, 2000.** The Chicago Section American Chemical Society and the University of Chicago present the Stieglitz Lecture. For additional information call the Section Office at (847) 647-8405.

**December 15, 2000.** The Chicago Section American Chemical Society presents the Annual Holiday Party. For additional information call the Section Office at (847) 647-8405.

**January 19, 2001.** The Chicago Section American Chemical Society will meet. For additional information call the Section Office at (847) 647-8405.

**February 23, 2001.** The Chicago Section American Chemical Society will meet. For additional information call the Section Office at (847) 647-8405.

**March 23, 2001.** The Chicago Section American Chemical Society and the Public Affairs Committee will celebrate the presentation of the Public Affairs Award. For additional information call the Section Office at (847) 647-8405.

**April 20, 2001.** The Chicago Section American Chemical Society will celebrate the presentation of the Distinguished Service Award. For additional information call the Section Office at (847) 647-8405.

**May 18, 2001.** The Chicago Section American Chemical Society will celebrate the presentation of the Willard Gibbs Award. For additional information call the Section Office at (847) 647-8405.

**June 22, 2001.** The Chicago Section American Chemical Society presents the Annual Education Night. For additional information call the Section Office at (847) 647-8405.

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