

theCHEMICALbulletin

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

JUNE • 2003

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

Education Night

FRIDAY, JUNE 20, 2003

Holiday Inn Willowbrook
7800 Kingery Highway (Route 83)
Willowbrook, IL
630-325-6400

DIRECTIONS TO THE MEETING

Take Interstate 55 (Stevenson Expressway) South to IL-83 (Kingery Rd) exit. Keep right at the fork in the ramp and merge into IL-83 North. Proceed to the Holiday Inn. It is on the east side of Route 83, just 0.5 block North of Interstate 55.

PARKING: Free

Job Club will meet in the Board Room

TOPICAL GROUP: 5:30 - 6:30 P.M.

The Topical Group will be in the Oakbrook III Room.

"Scientific Literacy for All: How Our Schools Can Improve Science Education" presented by **Dr. Linda Brazdil**, Illinois Math and Science Academy

See page 2 for more information.

SOCIAL HOUR: 6:00- 7:00 P.M.

Cash Bar in the Oakbrook I & II

DINNER 7:00 P.M.

Menu: Fresh fruit cup; Tossed garden salad; Orange Roughy with Cucumber Dill Sauce, Chicken Romano, or Vegetarian Spinach Pasta rolled with Ricotta Cheese served with Tomato Basil Sauce. The fish and chicken entrees include red potatoes with parsley butter and glazed baby carrots prepared with honey cinnamon; rolls and butter; Chocolate ice cream; and beverage.

Dinner reservations are required and should be received in the Section Office via **phone** (847-647-8405), **fax** (847-647-8364), **email**

(chicagoacs@ameritech.net), or **online** (<http://membership.acs.org/C/Chicago>) by noon on Tuesday, June 17. The dinner cost is \$28 to Section members who have paid their local section dues, members' families, and visiting ACS members. The cost to non-Section members is \$30. The cost to students and unemployed members is \$14. Seating will be available for those who wish to attend the meeting without dinner. **PLEASE HONOR YOUR RESERVATIONS.** The Section must pay for all dinner orders. No-shows will be billed.

GENERAL MEETING 8:00 P.M.



Dr. Tejal A. Desari, Associate Professor, Boston University

Title: "Microengineering Drug Delivery: From Pores to Particles"

Abstract: Microfabrication techniques which permit the creation of therapeutic delivery systems that possess a combination of structural, mechanical, and perhaps electronic features may surmount challenges associated with conventional delivery of therapy. In this presentation, delivery concepts are presented which capitalize on the strengths of microfabrication. Possible applications include micromachined silicon

membranes to create implantable biocapsules for the immunoisolation of pancreatic islet cells-as a possible treatment for diabetes-and sustained release of injectable drugs needed over long time periods. Asymmetrical, drug-loaded microfabricated particles with specific ligands linked to the surface are proposed for improving oral bioavailability of peptide (and perhaps protein) drugs.

Biography: Dr. Tejal Desai received the Sc.B. degree in Biomedical Engineering from Brown University (Providence, RI) in 1994 and the Ph.D. degree in bioengineering from the joint graduate program at University of California, Berkeley and the University of California, San Francisco, in 1998. In September 1998, she was appointed an Assistant Professor in the newly formed Department of Bioengineering at the University of Illinois at Chicago, Illinois. In January 2002, she joined the Biomedical Engineering faculty at Boston University as an Associate Professor. Dr. Tejal Desai directs the Laboratory of Therapeutic Microtechnology. Her research combines methods and materials originally used for micro-electro-mechanical systems to create implantable biohybrid devices for cell encapsulation, templates for cell and tissue regeneration, and novel protocols for the surface modification of biomaterials. Dr. Desai uses a multidisciplinary approach to better understand biological systems and develop therapeutic modalities for a variety of

(continued on page 2)

NOTICE TO ILLINOIS TEACHERS

The Chicago Section-ACS is an ISBE provider for professional development units for Illinois teachers. Teachers who register for the June meeting will have the opportunity to earn up to 5 CPDU's.

(continued from page 1)

pathologies. In addition to authoring over 50 technical papers, she is presently serving on the editorial board of *Biomedical Microdevices* and is authoring a book on *Therapeutic Microtechnology*. She has chaired and organized several conferences and symposia in the area of bioMEMS, microfabricated biomaterials, and microscale tissue engineering. Her other interests include K-12 educational outreach, gender and science education, science policy issues, and biotechnology/bioengineering industrial outreach.

Her research efforts have earned her numerous awards. In 1999, she was recognized by *Crain's Chicago Business* magazine with their annual "40 Under 40" award for leadership. She was also named that year by *Technology Review Magazine* as one of the nation's "Top 100 Young Innovators." Desai's teaching efforts were recognized when she won the College of Engineering Best Advisor/Teacher Award. She also won the National Science Foundation's "New Century Scholar" award and the NSF Faculty Early Career Development Program "CAREER" award, which recognizes teacher-scholars most likely to become the academic leaders of the 21st century. Her research in therapeutic microtechnology has also earned her the Visionary Science Award from the International Society of BioMEMS and Nanotechnology in 2001.

TOPICAL GROUP SPEAKER



Dr. Linda Brazdil

Abstract: The recent report, "Before It's Too Late," from the National Commission on Mathematics and Science Teaching for the 21st Century [NCMST] (2000) reaffirms that excellent mathematics and science education is in America's vital interest. It is

critical to developing new products and services, improving our standard of living, competing effectively in global markets, maintaining military security, solving unforeseen problems, and creating an, as yet, undreamed of future for America.

Clearly, students need a deep, conceptual understanding of mathematics and science in order to make everyday decisions as well as to keep pace with these rapidly expanding fields that affect their lives. The report states, "Mathematics and science are primary sources of lifelong learning and the progress of our civilization". Despite the need for all citizens to understand basic scientific concepts, The Third International Mathematics and Science Survey (TIMSS) in 1995 and the repeat of this test in 1999 (TIMSS-R) indicate that by eighth grade United States students' understanding of science and mathematics lags behind that of students in other industrialized countries. In this talk, I will discuss some of the difficulties schools face in striving to improve student understanding of science as well as reform efforts and why so many of them appear to be failing. Finally, I will present research-based models of curriculum design and instructional practice that are leading to improved student learning in science.

Biography: Dr. Linda C. Brazdil is the Coordinator of the Bridges to Science Literacy program at the Illinois Mathematics and Science Academy (IMSA). In this position, she works with teams of educators throughout Illinois to provide professional development using the publications developed by AAAS's Project 2061 (*Science for All Americans*, *Benchmarks for Science Literacy*, and *Atlas of Science Literacy*). She helps these teams enhance students' understanding of important scientific concepts by building coherent science curricula, enhancing their instructional practice, and selecting science education materials. She also serves as a consultant to Project 2061 to conduct professional development and to analyze test items for their alignment to standards.

She was previously the Coordinator of the Smithsonian Network supporting teachers throughout the state of Illinois in their innovative efforts in math and science education and assessing the impact of these programs on student learning. Prior to coming to IMSA, she was an Associate Professor of Chemistry at John Carroll University, a science education consultant, a Senior Project Leader in the Exploratory Catalysis and Processes Group of BP, and a high school chemistry teacher.

Dr. Brazdil received her B.S. in chemistry from Notre Dame College of Ohio and her M.S. and Ph.D. degrees in physical chemistry from Case Western Reserve University. She holds 33 U.S. patents and numerous foreign patents. Additionally, she has 14 scientific publications. She received two NSF research grants, an Eisenhower Grant through the Ohio Board of Regents in 1995 to oversee the Project Discovery Workshop for middle school math and science teachers held at John Carroll University, and an Exxon Education Fund research grant. She has held offices in numerous professional societies and as Head of the Science Collaborative for the Cleveland Education Fund. In recognition of her achievements and potential, Dr. Brazdil received the 1991 Cleveland Technical Societies Council Technical Achievement Award, an award presented to a researcher under the age of 37. She was inducted into the BP America Inventors Hall of Fame in 1990, is listed in *Exemplars: Women in Science, Engineering, and Mathematics*, was recognized as one of Notre Dame College of Ohio's 70th Anniversary Outstanding Alumnae (1992), was named the Outstanding Chemistry Alumna of Notre Dame College of Ohio in 1994, and received the Joan P. Lambros Service Award from the Fluorine Chapter of Iota Sigma Pi in 1998.

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"CHEM SHORTS" For Kids

"ChemShorts 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 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 the projects in this column into their lesson plans.

Helium vs. Air Balloons

Kids, did you ever notice that helium balloons made using a regular balloon (not a mylar balloon), do not last very long? This column provides a way to measure the diffusion of helium out of a balloon, and compare the results to a balloon filled with air.

You'll need a package of regular balloons, a helium gas source, a yardstick, and a tank of water large enough to hold a submerged balloon (a bathtub might work). Blow up three balloons with air and three balloons with helium, all to approximately the same size. Measure their volume by submerging each one into the tank of water, and measuring the "displacement". This means that you'll measure the height of the water before the balloon is added, again after it is submerged, and subtract to get the result.

Then measure the heights again after pre-determined amounts of time, such as every few hours, until you see no change in the measurements (the balloon has deflated). Plot your results of water height vs. time. The idea is to see which balloon diffuses the gas it is holding more quickly. The answer is that, since the helium molecules are smaller than air molecules, helium should diffuse out faster. You could also test different brands of balloons to do a comparison.

What do the results tell you about regular balloons and mylar balloons? Both are made of polymers, but the spaces between the individual chains of molecules (polymer chains) are quite different. Mylar is an exceptionally strong polyester, while many regular balloons are made of latex.

Submitted by DR. K. A. CARRADO.

This activity came to us courtesy of Ms. Adrian Winans, the oldest daughter of Section member Randy Winans. Adrian, who performed this as a fourth-grade science fair project, has now graduated from the U of C.

CHAIR'S LETTER

Education

In June, we traditionally celebrate our high school scholars. Each year many students take our scholarship exam. This exam is written by a Section member who is a college professor and given at a local university. The scholarship monies come from Section funds dedicated to this purpose. The winners are presented at the June dinner meeting, as are their high school chemistry teachers.

The Section sponsors other educational activities throughout the year, the best known being our annual celebration of Chemistry Day. The efforts of many volunteers make this day possible, among them members of our High School Education committee. Last fall about 1000 people attended Chemistry Day.

Another activity of the High School Education committee this fall was a workshop for teachers on the use of computerized data acquisition and analysis. The Elementary Education committee sponsored a color workshop for teachers this spring. Our Topical Group sessions and after dinner speakers at the monthly meetings often serve as continuing education for teachers and working chemists.

Research is another form of education. The Project SEED program offers high school students the opportunity to conduct research under the supervision of university professors during the summer. The Section made it possible for some of our SEED students to present posters on their work at the Boston meeting last summer.

In addition to what the Section formally sponsors, I know that many of you conduct educational outreach programs at area schools. If you and/or your company are involved in this type of activity, please let us know. We would like to acknowledge your contributions to the education of tomorrow's scientists. Just send me an e-mail describing your activities.

Summer will soon be here. Enjoy yourselves, check the web page for late breaking news and plan to join us in September for a tour of McCrone Associates and a talk on Forensic Microscopy.

See you at a meeting!
SUSAN SHIH, CHAIR

REGISTER TO ATTEND MONTHLY SECTION MEETINGS

ON LINE

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

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JOB CLUB

The next meeting of the Chicago Section Job Club will be held on Friday, June 20 at the Holiday Inn in Willowbrook (in the Board Room) at 5 p.m. The meeting will include a review and discussion of some of the fundamental tools that a chemist can use to conduct a Job Search.

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. Be prepared to talk about what kind of job you are looking for.

Several participants have received outsource help with resume preparation and marketing strategies to present their best attributes to prospective employers. The group actually critiqued some individual resumes and made suggestions for improvements in a positive way!

The Job Club is also for employers seeking chemists. Employers need to be prepared to describe the positions to be filled and requirements for these positions.

Should you wish to attend the Section meeting following the Job Club, the fee for unemployed members is only \$14 and you can continue your networking activities. Please call the Section office for reservations and indicate that you are eligible for a discount.

FREE T-SHIRTS

The Hospitality Committee raffles one T-shirt at each monthly dinner meeting. The shirt has Chicago spelled out using the periodic table. So come to a monthly meeting and maybe you'll win one.

**Congratulations to winner
Maryellen Thielen (April meeting).**

FRAN KAREN KRAVITZ
HOSPITALITY COMMITTEE CHAIR

2003 CHEMCOM TEACHER TRAINING WORKSHOPS

ACS sponsors one-week, residential summer workshops for teachers using or intending to use ChemCom. **Apply today** for one of this summer's workshops, or pass this information along to a chemistry teacher. In each workshop, experienced ChemCom Teacher Leaders guide participants through the ChemCom text and provide hands-on experience with many of the laboratories, modeling exercises, and culminating activities. Participants are also introduced to the many ancillaries new to the most recent edition of ChemCom. Teachers using previous editions of ChemCom, or any other textbook, who intend to use ChemCom in the future, are also invited to apply. The locations and dates of the 2003 week-long workshops are listed below.

- June 8-13, 2003 Dallas, TX
- **July 6-11, 2003 Lake Forest, IL**
- July 20-25, 2003 Lawrenceville, NJ
- August 3-8, 2003 Malibu, CA

ACS coordinates and pays for lodging, meals, and all workshop expenses during the workshop. Attendees arrange and pay for their own travel to and from the workshop site and pay a \$50 registration fee. Each workshop begins on a Sunday afternoon and is completed at noon on Friday.

The latest workshop information and workshop applications are available online at <http://chemistry.org/chemcom/workshops.html>.

Contact the Chair

Do you have any questions, suggestions, recommendations, ideas, gripes, complaints, or pet peeves relating to the Chicago Section? Do you want to volunteer, help out, or lend a hand with Section programs or activities? Then contact your Chair. Simply log onto the Section's Web Page at <http://membership.acs.org/C/Chicago>, find the green button "Contact the Chair", and send me an e-mail. If I can answer your query I will respond personally. If I can't I will forward your e-mail to someone who can, or try to provide you with a contact — all in a timely manner. The Section belongs to you and the other 5,600 ACS members who reside in the Chicago area (northeast Illinois and northwest Indiana). Only you can make it work for you by being involved. Only you can make it fail by not being involved. I look forward to hearing from you.

Susan Shih
Chair

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REPORT OF SPRING 2003 COUNCIL MEETING

The 225th National Meeting of the ACS was held in New Orleans, LA from March 23 - 27, 2003. Attendance at this meeting was reported to be 14,576 people, including 11,705 meeting attendees, 1501 exhibitors, 629 exhibition only attendees and 741 guests. The Chicago section was fully represented by 13 councilors. The councilors who attended for the section were: Roy H. Bible Jr., Cheryl Bradley, Charles E. Cannon, David S. Crumrine, Nathaniel L. Gilham, Russell W. Johnson, Fran K. Kravitz, Thomas J. Kucera, Claude A. Lucchesi, Barbara E. Moriarty, Seymour H. Patinkin, Marsha Anne Phillips and Stephen Sichak. Jim Shoffner was present at the meeting as a Director-at-Large, while Ellis Fields was present as a past president of the society. Both Jim and Ellis are exofficio councilors.

Communication: Communication is the main theme of President Reichman's year in office. President Reichman reported that in her travels she hears from members that we need to communicate more often about the services that the Society provides, so that all members, young and old, can take advantage of these services. In addition, as members of the ACS, we need to communicate with our policymakers on the benefits science brings to our country. She urged all of us to enlist members for the Legislative Action Network (LAN) to bring our message to our US senators and congressman.

A number of symposia were held on communication. One that was particularly interesting was entitled, "Funnel Vision: The Role of the Media in Science Communication." At the New York meeting there will be a special symposium to be held on September 11, on what chemists can do to contribute to our country.

Governance: The two candidates who will run for ACS President-Elect this fall were elected. They are William F. Carroll, Jr. from Occidental Chemical Company and Michael E. Strem, from Strem Chemicals, Inc. Both are members of the International Activities Committee. The process by which councilors were introduced to the candidates for President-elect was changed at the New Orleans meeting. In previous years, candidates went to all six district caucuses; at this meeting, they were introduced at a town meeting. In this way, candidates only have to make one caucus presentation and each caucus can focus on its own business. The town meeting format will also be used at the

upcoming New York meeting.

In addition, the Director for District V will also be elected this fall. The candidates announced at the Council meeting are Judith A. Benham and E. Ann Nalley.

The Chair of the Board of Directors, Nina McClelland, reported that the Board is continuing to deal with two major issues. The first is the Strategic Plan for 2004 - 2006. The second is the search for a new executive director, since John Crum will retire at the end of 2003. They have chosen an Executive Search firm to facilitate this important task.

Division and Local Section Funding:

The major decision that was made by the Council at this meeting was to vote on a petition to change the way Divisions and Local Sections are funded. The funding mechanism would be changed so that 20% of individual members' dues paid to the Society would go to funding Local Sections and Divisions. The petition was passed by the two-thirds majority of the council required, and now must be voted on by the entire membership of the Society. **More details on the petition will be given in separate articles (see pages 7 & 9).**

Budget: As reported in previous council reports, the Board of Directors voted last year to allow a budget deficit in 2002. The net deficit for the society in 2002 was \$1.5 million. However, this was better than the expected deficit of \$2.0 million, due to strong performance of meetings and CAS. The society finances were negatively affected by investment losses and a drop in advertising revenue.

The Council voted to increase dues by the maximum allowed this year to \$120.00.

Awards: The Charles Lathrop Parsons Award was presented to Zafra Lerman of Columbia College, Chicago. The Awards and Recognition Subcommittee of the on Local Section Activities Committee recommended that a new ChemLuminary Award be established for the "Best Activity Involving a Local Section-Division Interaction".

Education: During President's Pearce's term of office, he challenged us to reinvent chemical education. As part of a response to this challenge, there will be an invitational conference on June 6 entitled, "Exploring the Molecular Visions." In New York, there will be symposia on National Security vs. Scientific Openness, Emerging Technologies: Opportunities of Chemists in Chemical Sensors, and The Chemistry of Global Climate Change.

Senior Chemists: One of the themes during Past President Eli Pearce's term of office was diversity. In a recent message in Chemical and Engineering News he discussed his concept of a Silver Circle, to utilize the time and talents of our senior chemists. Local Sections were urged to form Silver Circles. The Committee on Local Section Activities has formed a Senior Chemists Working Group to determine ways to encourage local sections to form Senior Chemists Committees.

Outreach: The Local Section Activities Committee (LSAC) reported that all 189 local sections participated in National Chemistry Week 2002 celebrations, with twice the press coverage of previous years. The theme of the 2003 National Chemistry Week celebration would be "Celebrating Chemistry: Earth's Atmosphere and Beyond." The theme for 2004 will be "The Chemistry of Health."

Since 1968, more than 6300 high school students have participated in Project SEED, a program offering economically disadvantaged students the opportunity to experience the challenges and rewards of chemically-related sciences. For the 2003 summer research program, 93 institutions with mentors for 291 SEED I students and 39 institutions with 115 SEED II students have been approved. In addition, 29 former SEED students were selected for 2003 SEED College Scholarships. Forty Project SEED students presented posters at two separate poster sessions. Two Project SEED students also presented their perspectives of the program in a panel discussion at the Committee on Minority Affairs' Presidential event. This year marks Project SEED's 35th anniversary. A symposium is one of the activities planned for the Fall 2003 National ACS meeting in New York.

The National Chemistry Week Task Force announced the theme for 2003 as "Earth's Atmosphere and Beyond" for the week of October 19-25. The theme for 2004 will be based on the chemistry of health.

Membership Affairs: As of 12/31/02, the Society's membership was 161,144, a decrease of 1.4%, compared to 12/31/01. In 2003, members can renew their memberships on-line. More than 9000 out of ~25,000 members took advantage of this option and renewed their membership on-line. The addition of new and improved personal member benefits was discussed. These personal benefits include new insurance benefits for auto, home and property coverage, as well as discounts for hotel rooms. See the back of your membership card for some of these offerings.

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Economic and Professional Affairs:

The efficiency improvements brought about by computerization continued in the National Employment Clearinghouse (NECH) at the New Orleans meeting. Computers were decreased by 50%, printers by 90% and support staff decreased from 29 to 8. There were 1151 job seekers, 96 employers with 303 jobs for 606 potential hires. A new program offering an on-line career consulting program is being implemented.

Meetings: As mentioned above, attendance at the National meeting was surprisingly good, but there was substantially more security at this meeting compared to past meetings.

Ethics: The Council Policy Committee is exploring the possibility of the formation of a Committee on Ethics.

If you have any questions and/or comments about the above actions, please contact me by email (bmoriarty@ondeo-nalco.com) or one of the other councilors.

BARBARA MORIARTY

(with help from Cherlyn Bradley, Dave Crumrine, and Marsha Phillips)

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
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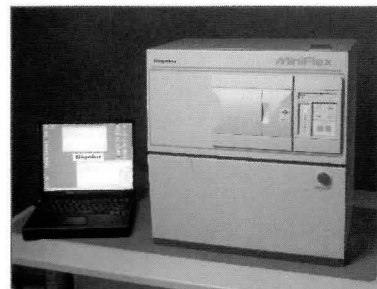
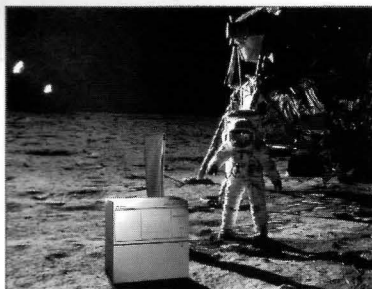
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DIVISION AND LOCAL SECTION FUNDING

If you have read the report on the Council meeting (page of this issue), you will have noticed that the Council approved a petition to change the way Divisions and Local Sections are funded by the Society. For this petition to become a reality, **you, the members of the Society** must approve the change, by a two-thirds majority of those who vote. Later this year you will receive a ballot to vote on this petition. We hope that you will join with us in voting YES for this petition. As such, we would like to explain the petition in more detail and tell you why we support this measure. Further information on the petition will also appear in *Chemical and Engineering News*.

Briefly, the petition would change the way that Local Sections and Divisions are funded by the Society. For the last 25 years, allocations to Local Sections and Divisions have been done by specific formulas set forth in the bylaws. Local Sections receive a set amount that is determined from a basic allotment plus an amount based on the number of members in the Local Section. Furthermore, Local Sections may also receive money from dues, which are voluntary. On the other hand, funding for Divisions is achieved in a different manner. Divisions are funded from dues paid by Division members and by an allotment based on membership in the division, and from an additional allotment based on participation and programming at national meeting. While Division members choose to be a member of the Division by paying dues, Local Sections are assigned their members based on where the member resides.

In the last few years, a Presidential Task Force found that both Local Sections and Divisions faced financial hardships. In the Task Force's report, they found that Divisions were funded at a lower level per capita than Local Sections and the distribution of funds to Divisions and Local Sections should be adjusted to achieve a more equitable balance. The petition that was developed was to allocate a percentage (20%) of individual dues paid to the Society. These funds would then be divided between Local Sections and Divisions based on memberships in the year 2000. Thus, 55% of these funds would be allocated to Local Sections and 45% would be allocated to Divisions. If the bylaw changes are made, the Divisional Activities Committee (DAC) and the Local Section Activities Committee (LSAC) would determine the mechanism for the distribution of the allotments to each individual Local Sec-

tion and Division. The following shows a comparison, based on 2002 membership figures:

20% of Total Dues Collected = 2,602,000

Total Allocation under New Petition

1,431,000 (55%) Local Sections

1,171,000 (45%) Divisions

Total Allocation under Current Bylaws

1,317,605 Local Sections

377,843 Divisions

As you can see, funding was increased to both Local Sections and Divisions. This was done to meet one of the concerns of the Task Force, that increased funding for Divisions must not come at the expense of Local Sections.

This petition in various forms has been discussed for several years. One of the authors, Jim Shoffner, was a signer of the original petition, but due to timing was not able to sign this latest petition. Some of the reasons to vote YES for this petition are given below.

1. The Society consists of two major activities to improve the status of chemical professionals — Local Sections and Divisions. This petition is a way of strengthening the whole society by Strengthening Divisions and Local Sections.
2. It has been nearly 25 years since the current funding mechanism was developed. It has survived with slight modification (changing the basic allotment, stopgap funding) up to the present day. A lot has changed in that 25 years and perhaps the funding mechanism that was developed then is not appropriate to the needs of the Society today.
3. One of the main changes in the last 25 years is the globalization of chemistry. This means that in order to provide the best information at meetings, a Division might have to provide registration fees and per diem support for a non-member from another country in order to bring in the speakers in speakers for special symposia. This raises the cost to Divisions to provide world-class programs.
4. Divisions provide programming at national meetings. Yet, you do not have to be a member of a division to attend these sessions. Thus, Divisions serve all the members of the whole society
5. In the past 25 years, there have been

a number of what amount to "unfunded mandates" that have been asked for by the Society at the national level. Programs such as National Chemistry Week, legislative visits day, career services at the local level, public affairs and increased educational outreach are all costly for a local section to undertake. All are necessary in order to properly serve the members and achieve societal goals.

6. Twenty five years ago, many companies furnished much more support — both direct and in kind — than they are presently able to give. The sections and divisions are now expected to cover these costs.

These are difficult times for ACS financially, as it is for our society as a whole. If we work together and or unified as "One Society," we can continue to be a "Great Society." For the above reasons, we urge you to vote Yes for this petition. A Yes vote is a vote for a strengthened whole American Chemical Society.

BARB MORIARTY
JIM SHOFFNER

The Chicago Section's
e-mail address
is
chicagoacs@amertiech.net

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ALMA E-NEWS

Re-run Requests

Many lab managers, especially those supporting a production operation, have struggled with the issue of how to handle retest/resample requests. This issue typically arises when the client lacks confidence in a lab result or when a production operation wants to move marginal material into the specification range. With the lean staffing levels typical of today's labs, this issue can become an operational problem if the volume of retest/resample requests becomes too large. While written policies were once relatively rare, more labs seem to be negotiating reasonable rules with the client to formalize the terms under which retest/resample is permissible. Some approaches impose penalty charges for retest results where the lab's initial result is confirmed while others attempt to establish statistical rules based upon known test error to determine when and how many retests are permissible. Generally, these rules are applied only when results indicate that product is out-of-specification although logically the same rules should also apply to product marginally within specification. This point illustrates that the issue is not strictly technical but has commercial/political implications that realistically must be addressed by any policy. Innovative approaches are needed to define rules that achieve the right balance and consistency between technical merit and commercial reality. Surely there must be managers who have explored this problem in depth and have practical solutions that could be shared.

Past ALMA (Analytical Laboratory Managers Association) e-News editions are available at <http://www.labmanagers.org/>.

If you have any comments, cost saving suggestions, opinions, etc. let me hear from you.

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WEIRD SCIENCE WORKSHOPS

The University of Illinois at Chicago Chemistry Institute will present "Weird Science" workshops for high school and junior high teachers during July and August 2003. "Weird Science" is a series of short, easy and sometimes "weird" demonstrations, labs and ideas on chemical and physical phenomena, designed for teachers of the chemistry and physical science, primarily at middle school and high school levels.

The 2003 program, "Who, What, Where, Workshop Week With Weird Science and Wade," will be offered July 21-25 and July 28-Aug. 1. Also called Chemistry 572, "Teaching Methods in Chemistry," the course carries three semester-hours of graduate credit in chemistry. Content will differ from the course offered in 2002, so the course may be repeated for additional credit. Summer 2003 topics will revolve around the history of science and chemistry that can be used in the chemistry classroom.

For details, contact **Dr. Wade Freeman**, 312-996-3161, Wfreeman@uic.edu. Instructors are Freeman, Dewayne Lieneman, Lee Marek, and Bob Lewis. Also, go to <http://www.ncusd203.org/north/depts/science/chem/marek/>

TEACHING SAFETY

This is an upcoming symposium at the September 2003 meeting of the American Chemical Society in New York City. The symposium will entail the efforts made to teach safety live or on-line within a chemistry course or curriculum, as part of another course, or as a stand-alone course. Invited speakers will be teachers from K-12 grades, colleges or universities.

One of the invited speakers is **Marsha A. Phillips**, Chicago Section board member and a high school chemistry teacher at Farragut Career Academy in Chicago. Marsha's talk is entitled: "Safety: the First Chemistry Lesson". The following is an excerpt from her paper—

"The first lesson my chemistry class has is safety. My students are given two copies of the Flinn Safety Contracts. One contract is taken home for the students and their parents to sign. Those contracts are returned to me. The other contract the students keep for reference. We go over each and every safety rule and I point out what happens if they do not follow the rules. They then take two safety quizzes. One is a fill-in the blanks and the other is a true and false based on the video "Starting with Safety". The students also make safety posters. And every day they are reminded of safety."

Chemical Investigation

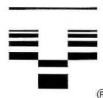
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YOUR TIME TO VOTE: The Petition to Increase Funding for Local Sections and Divisions

In the column that appeared in *Chemical & Engineering News* on February 10, 2003, entitled "The Big Society with the Little Societies Inside", we along with Frank Blum (2002 National Chair, Divisional Activities Committee) discussed the funding needs for both Local Sections and Divisions within the ACS. At the recent meeting in New Orleans, Council approved the Petition to Increase Funding for Divisions and Local Sections. Now it is your turn, as members of the Society, to ratify the changes in the Constitution required to change the way we fund these two entities. Shortly, you will receive a ballot to vote on these changes. Below you will find some information that you may find helpful in deciding how to vote.

Local Sections and Divisions have their own Articles in the Constitution (Articles XII and XIII). These member units are constitutionally different from other Society units. The allotments to Local Sections and Divisions are also governed by the ACS Bylaws, so changes to the allotment and structure should be incorporated in the Bylaws. The Board of Directors is required to approve Bylaw changes. The membership must ratify changes to the Constitution.

These changes eliminate dollar amounts for local section and division allotments from the Bylaws and distribute 20 percent of the ACS member dues collected to Local Sections and Divisions, in an effort to support Local Section and Division memberships at a similar level. The dues allotment amounts to be distributed to Local Sections and Divisions are based on the relative number of memberships using the year 2000 as a base, which had 55 percent Local Sections and 45 percent Division memberships. The percentage for funding will stay fixed at 55/45. (Total ACS members belonging to a division number ca. 85,000, with total Division memberships numbering ca. 116,000, due to members with multiple Division memberships; Division dues are required. All ACS members are assigned a Local Section membership, numbering 143,000 in 2000; Local Section dues are optional.)

The petition provides a modest increase in funds to Local Sections and a significant increase in support to Divisions. The funds so allocated will be distributed to individual Divisions (34) and to individual Local Sections (189) by the Divisional Activities Committee (DAC) and the Local Section Activities Committee (LSAC), respectively. Council must approve these distribution for-

mulas at least every three years, with prior review of the Board Committee on Budget and Finance.

DAC plans to distribute the money based on the following: a significant increase in the base allotment; a modest increase in per member allotment; an increase in National Meeting Programming funds; and a fraction for innovative projects, especially those promoting Local Section and Division cooperation and collaboration such as programming at regional and local meetings.

LSAC will distribute a base amount to each Local Section and a per capita amount, ensuring that each Local Section's current yearly allotment will remain stable. Although there is a normal fluctuation in Local Section allotments due to changes in membership, existing funds will remain effectively the same for each Local Section. Additionally an innovative projects fund will be established to fund Sections with special financial needs that can improve their programming and fund innovative projects that could normally not be funded. Favored new activities will be those that involve joint interaction of Local Sections with Divisions or with other Local Sections.

Local Sections will receive their additional funds in the first year and thereafter. The Divisions' additional funds will be stepped up over four years from 2004 to 2007, when fully funded.

The total increase needed to fund this petition is approximately \$9 per member. This funding will come from a combination of a progressive temporary assessment (to a total of \$8 in 2007) and cost savings/increased revenues in Society operations (\$1 initially). The temporary assessment of \$2 per each year (\$2 in 2004, \$4 in 2005, \$6 in 2006 and \$8 in 2008) is just that, temporary. It will allow the Board to find alternative funding mechanisms within the next 4 years. This assessment will be reviewed at least annually, and if funding is found, the assessment may be lowered or cancelled before 2007.

One of the issues that have lead to deficit spending for Divisions is that much of the program money raised in the past from companies, foundations, etc. has become significantly more difficult to acquire. Both Divisions and Local Sections have not been able to fund innovative projects because of additional costs. The new, modest Innovative Projects fund will allow both DAC and LSAC to select and help fund those projects that will have the greatest impact. The revised petition, with the temporary assessment and allocations implemented over time is supported by the Board of Directors and the Society Committee on Budget and Finance, and has been overwhelmingly approved by

Council via voice vote in New Orleans. Council has approved the distribution formulas for both LSAC and DAC. All the Officers in the Presidential succession at the time the petition was drafted are signatories on the petition.

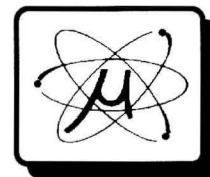
The petition supports the two major membership components of ACS. These programs that Divisions and Local Sections conduct are of importance to the entire membership. Firming up our volunteer base will strengthen the Society as a whole, and will benefit us all. **Look for your ballot in the mail, and please vote!**

RUTH HATHAWAY, NATIONAL CHAIR
DIVISIONAL ACTIVITIES COMMITTEE

YORKE E. RHODES, NATIONAL
CHAIR
LOCAL SECTION ACTIVITIES
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REPORT OF CCPA MEETING AND ACS LOBBYING ON THE HILL

Members of the Committee on Chemistry and Public Affairs (CCPA) and members of the Board of Directors assembled in Washington, DC April 8-9 to marshal congressional support for improvements in K-12 math and science education.

Following presentations by the National Science Foundation's Education and Human Resources directorate and the Deputy Chief of Staff of the House Science Committee, ACS leaders reviewed current efforts to improve K-12 science and math education. The discussion centered on how the separate but complementary K-12 Math and Science Partnership programs at NSF and the Department of Education could improve teacher training and student achievement in these subjects by fostering partnerships among school districts, industry, and university science and engineering departments. The 30 participants also learned about effective ways to build relationships and communicate with legislators and congressional staff on education and other issues.


During breakfast prior to the congressional visits, Congressman Vern Ehlers (MI) and Senator Richard Durbin (IL) spoke to us about their leadership efforts on science education policy and the important role ACS plays in informing the debate. They asserted that states need help to reverse poor achievement by high school students in science and declining enrollments in science and engineering programs. Senator Durbin noted that less than half of math and science teachers have a major or minor in these areas.

Overall, ACS leaders visited nearly 50 congressional offices to advance the Society's position on NSF and the Department of Education. Specifically, legislators were urged to allocate \$200 million for both the NSF and Department of Education's Math and Science Partnership programs in FY 2004. The success of these meetings was clear in the House, where more than 40 legislators endorsed ACS's recommendation for the Department of Education's program. In addition, a number of Senate offices expressed support for these programs, which will be important when Congress considers the Department of Education appropriations bill.

At the ACS's seventh annual Public Service Awards ceremony on Capitol Hill, the Society presented awards to Congressman Rush Holt (NJ) and Judy Biggert (IL) for their outstanding leadership in developing and advancing public policy that benefits the chemical sciences. Both Congressman Holt, a physicist, and Congresswoman Biggert, a former educator, have been instrumental in advancing federal investments in research and development and science education to benefit society.

I am happy to report that I had the opportunity to meet one-on-one with my congressman, Mark Kirk, to explain the ACS recommendations directly to him. I also had the opportunity to visit the State Department and talk with the Science Advisor to Colin Powell, Norman Neureiter.

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ANALYSIS FOR THE CHEMICAL ELEMENTS

SUNLIGHT, SKYSCRAPERS, AND SODA POP THE WHEREVER-YOU-LOOK SCIENCE BOOK RETURNS!

This popular hands-on science activity book for early readers was temporarily out of print last year, but is available for purchase again. This 64-page spiral-bound book published by ACS helps young readers explore the science that surrounds them as they follow Sally and Sammy, the delightful dinosaur siblings in this story, through a typical day. In the kitchen making breakfast or playing in the park, Sally and Sammy discover that science is all around them. Children can join Sally and Sammy by doing the simple science activities, too. Sunlight, Skyscrapers, and Soda Pop can be ordered from ACS 2003 Science Teaching Resources catalog. To request the catalog, write education@acs.org or call 1-800-227-5558.

ONLINE CONTINUING EDUCATION COURSES

I. Instructor-Led Courses - ACS Webcast Short Courses

Now you can take an ACS Short Course at your desktop. Make your plans now to attend an ACS Webcast Short Course from the convenience of your office or home. These courses meet during scheduled times and are directly guided by expert instructors.

Webcast Short Courses scheduled for 2003:

- Interpretation of Mass Spectra
- Infrared Spectral Interpretation
- Effective Technical Writing

For more information visit <http://chemistry.org/elearning>.

II. Self-Paced Courses — ACS Internet Courses

Register in and start a course anytime. These courses are completely self-paced. Help from an instructor is available by e-mail.

ACS Internet Courses include:

- Basic Statistical Analysis of Laboratory Data
- NEW! Chemical Laboratory Techniques
- NEW! Starting with Safety-An Introduction for the Academic Chemistry Laboratory

To review a complete on-line catalog, visit the ACS Virtual Campus at <http://www.vcampus.com/acs>.

Need more information or don't see what you're looking for? Let us know what topics you would like for us to add by sending an e-mail message to c_gerson@acs.org.

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

DEADLINES FOR CHEMICAL BULLETIN

Please submit all Chemical Bulletin copy to the editor before the deadlines listed below for each issue. Articles can be emailed to the editor, Cheryl Bradley, cbrad1027@aol.com.

Since we like the Bulletin to be as timely as possible, we need the lead time indicated. You can help by early planning and submission of your information or articles.

Issue	Deadline
September 2003	7/25/03
October 2003	8/22/03
November 2003	9/26/03
December 2003	10/17/03

LEGISLATIVE ACTION NETWORK

Are you concerned about federally supported R&D? Are you concerned about the future of K-12 science education? If yes, then JOIN the ACS's Legislative Action Network (LAN) and let your concerns be heard.

The LAN gives ACS members an easy, effective way of providing sound, non-partisan advice to elected officials. Participating LAN members will receive approximately six e-mail alerts per year prior to key congressional decisions. These alerts explore the issue's background, the potential effect it might have on the scientific enterprise, and the position ACS holds. By clicking on a link, members have direct access to the ACS Legislative Action Center where they can review action alerts, edit sample letters, and send them to their legislators within minutes. In addition, monthly e-mail news summaries keep members up-to-date on decisions being made in both the Congress and the White House.

You can sign up for the LAN online at www.chemistry.org/government/action. If you have any questions regarding the LAN, please contact Brad Smith in the ACS Office of Legislative and Government Affairs at 1-800-227-5558, extension 4479.

CAS AND ACS PUBLICATIONS DIVISIONS WILL MAKE EARLY TWENTIETH CENTURY RE-SEARCH AVAILABLE ONLINE

Chemical Abstracts records from the early twentieth century will be linked to the ACS Journals Archive, permitting researchers to identify articles of interest in ACS journals back to the first issue of CA in 1907, then link to the full-


text articles from ACS. The combined power of these two massive resources will be boost their value for researchers, who have eagerly sought the enhancement. In effect, two complementary ACS projects have been brought together to provide scientists the benefit of advanced information retrieval with the availability of a vast electronic collection of original journal literature. For more information, call 614-447-3731 or send email to help@cas.org.

50 YEAR MEMBERS

Congratulations to the following Chicago Section members who have achieved fifty years of service in the American Chemical Society!

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CALENDAR

May 31- June 2, 2003: Great Lakes Regional Meeting at Loyola University, Chicago.

September 7-11, 2003: The 226th ACS National Meeting will be held in New York City. For further information, call the National ACS office at (800) 227-5558, go to www.chemistry.org, or send e-mail to natlmtns@acs.org.

September 19, 2003: The Chicago Section American Chemical Society's monthly dinner meeting. The after-dinner speaker is Mr. Dick Bisbing, McCrone Associates. Stay tuned for further information as the date approaches.

September 21-23, 2003: World Fuels Conference will be in Washington, DC at the Hyatt Regency on Capitol Hill. Conference theme is "The US Refining and Automotive Industries 2003 and Beyond — Coming Together of Energy, Environmental & Economic Issues". For further information, contact Paul Argyropoulos, (301) 354-2025, pargyropoulos@chemweek.com.

October 24, 2003: The joint meeting of Northwestern University Dept. of Chemistry and the Chicago Section American Chemical Society for the Basolo Medal Award lecture, dinner and presentation. More information as the date approaches.

October 25, 2003: The Chicago Section will celebrate Chemistry Day at IIT. The National Chemistry Week theme is "Earth's Atmosphere and Beyond".

November 17-20, 2003: The Eastern Analytical Symposium and Exposition will be held at the Garden State Convention Center in Somerset, NJ. Abstracts deadline is April 15. Go to <http://eas.org> for further information.

November 21, 2003: The Chicago Section American Chemical Society's monthly dinner meeting. The continuing education and topical group committees will have a lecture by Dr. Robert Botto, Argonne National Labs, on NMR and Alzheimer's. The after-dinner speaker is Dr. Peter Dorhout, Colorado State University, who will speak on "Actinide Chemistry and How It May Be of Use to the U.S. Space Program".

December 12, 2003: The Chicago Section American Chemical Society's annual Holiday Party/Meeting. The after-dinner speaker will be Dr. James O'Brien, Southwest Missouri State University. His topic is "Famous Mad Hatters".

January 23, 2004: The Chicago Section American Chemical Society's monthly dinner meeting. The after dinner speaker will be Sharon Bertsch McGrayne, author of the book "Promethans in the Lab". She will speak on "Claire C. Patterson: A Chemist Leads the Fight Against Leaded Gasoline".

Whether you spend your summer traveling, going to school, working, or playing. . . Have a wonderful summer and see you in the Fall with the September issue---Editorial Staff

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