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Fly or drive, the American Chemical Society has the discounts to get you there, from top flight airlines to the best auto rental companies. ACS has negotiated special fares for the 2004 ACS meetings-national, regional, ProSpectives, and Local Section Conferences.

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* Discount rates that extend from 5 to 7 days before and after each meeting
* No Saturday night stay required
* 5% off lowest applicable published domestic fares
* 10% off unrestricted coach fares
* Additional 5% discount on aforementioned fares booked 60 days in advance (30 days for United)

**Delta**—(800) 241-6760, 8 am to 11 pm ESTREET
Refer to File Number: 202142A

**United**—(800) 521-4041, 8 am to 10 pm ESTREET
Refer to Meeting Plus Code 517SM

**US Airways**—(877) 874-7687, 8 am to 9 pm ESTREET
Refer to Gold File Number: 97692959

**AUTO RENTALS:** ACS has negotiated special meeting rates with both Avis and Hertz for the 2004 ACS Meeting Travel Program. Both extend the discounts to a week before and the week after the meeting you attend. To make your reservation, or for more information, call:

Avis—(800) 331-1600; online at www.avis.com. Refer to ID Code: B120799
Hertz—(800) 654-2240; online at www.hertz.com. Refer to ID Code: CV# 02UZ0004

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Chemists Celebrate Earth Day 2004

What Do You Know About H2O?

2004 Music Video Competition

As part of Chemists Celebrate Earth Day 2004, the American Chemical Society is sponsoring a music video competition for Kindergarten through 12th grade students. The contest encourages students to produce a music video best illustrating the theme, “What Do You Know About H2O?” The competition is open to all Kindergarten -12th grade students enrolled in public, private, or home schools in the U.S.A. and Puerto Rico. All entries must be original works and cannot have been previously submitted in a video competition. Only one entry per school per competition category will be accepted.

COMPETITION CATEGORIES

<table>
<thead>
<tr>
<th>Grade Category</th>
<th>PRIZES</th>
</tr>
</thead>
<tbody>
<tr>
<td>K-2nd grade</td>
<td>Winners: $50</td>
</tr>
<tr>
<td>3rd-4th grade</td>
<td>Honorable Mentions: $25</td>
</tr>
<tr>
<td>5th-8th grade</td>
<td>If a video is produced by a group of students, then all members of the team will share equally in the award.</td>
</tr>
<tr>
<td>9th-12th grade</td>
<td>1. Videos entered into the competition must have been produced after Jan. 1, 2004.</td>
</tr>
<tr>
<td></td>
<td>2. Entries must be submitted to the Pittsburgh Section ACS by May 3, 2004.</td>
</tr>
<tr>
<td></td>
<td>3. Each school is to identify and submit one video entry in each of the four (4) grade categories.</td>
</tr>
</tbody>
</table>

ENTRY REGULATIONS

Entries must be recorded in English and submitted on a new VHS video cassette. Winners will be judged in May and announced in August, with winning entries in each category submitted to the ACS’s national competition. Winners of the national competition will be announced during the ACS National Meeting in Philadelphia, August 2004. Prizes will be presented to winners and honorable mentions for each grade category during the Philadelphia event. Contest participants and their guests are welcome to attend the announcement event in Philadelphia, however, all participants and guests are responsible for their own travel plans and expenses. Each entry must be accompanied by the following:

1. A label attached to video that includes the following information:
   a. Contact name and telephone number
   b. Title of video
   c. Total running time in minutes
   d. Competition category
2. A completed entry form.
3. A signed parental consent form for all students videotaped under the age of 18.

JUDGING

Entries will be judged by a group of chemical educators and professionals appointed by the Pittsburgh Section of the American Chemical Society. Judges will be evaluating originality, creativity, composition, and relevance to and incorporation of the 2004 Chemists Celebrate Earth Day theme.

LIABILITY

Although every possible care will be taken with tapes while in our possession, the American Chemical Society cannot accept responsibility for lost, late or damaged entries. Video tapes become the property of the American Chemical Society upon submission. Video tapes will not be returned. Entry in the competition constitutes consent to use the video and contestants’ names and likenesses for advertising and publicity purposes.

For more information about the contest, contact:

V. Michael Mautino, Bayer Polymers LLC
100 Bayer Rd., Bldg. 2, Pittsburgh, PA 15205
Phone: 412-777-4792, Fax: 412-777-7864
E-mail: michael.mautino@bayerpolymers.com
Chemists Celebrate Earth Day 2004
What Do You Know About H₂O?
2004 Music Video Competition

OFFICIAL ENTRY FORM

Entries should be sent to:
V. Michael Mautino, Bayer Polymers LLC
100 Bayer Rd., Bldg. 2
Pittsburgh, PA 15205
Phone: 412-777-4792  Fax: 412-777-7864
E-mail: michael.mautino@bayerpolymers.com

CLIP AND ATTACH TO YOUR ENTRY:

LOCAL SECTION: Pittsburgh Section of the American Chemical Society

CONTACT NAME __________________________________________________

ADDRESS___________________________________________________________

PHONE NUMBER (___) _____________________  FAX NUMBER (___)______________

VIDEO TITLE_________________________________________________ DURATION _____(mins.)

NAMES OF STUDENTS APPEARING IN THE VIDEO  (Check if Parental Consent is Attached)

1._________________________________________ □

2._________________________________________ □

3._________________________________________ □

4._________________________________________ □

5._________________________________________ □

6._________________________________________ □

GRADE CATEGORY ________________________________________________________

SCHOOL______________________________________________________________

SCHOOL ADDRESS________________________________________________________

SCHOOL TELEPHONE______________________________________________________

TEACHER’S NAME__________________________________________________________
Parental Consent Form
Chemists Celebrate Earth Day 2004
“What Do You Know About H₂O?”
Music Video Competition

I give my permission for my son or daughter, to be videotaped by _______________________
(Name of school or organization)
in conjunction with activities associated with Chemists Celebrate Earth Day 2004, a program of the American
Chemical Society, for the following purposes:

Activity: “What Do You Know About H₂O?” Music Video Competition. The contest encourages students to
produce a music video best illustrating the theme. The competition is open to Kindergarten - 12th grade students
enrolled in public, private, or home schools in the U.S.A. and Puerto Rico.

I hereby transfer to the American Chemical Society all copyright and other interests in the videotape. I also hereby
grant royalty-free permission, including nonexclusive world rights to the American Chemical Society to repro-
duce and include my son’s or daughter’s likeness in the video tape for promotional purposes associated with the
Chemists Celebrate Earth Day program.

Signature: ____________________________________________________________________
(parent or legal guardian)

Printed Name: __________________________________________________________________

Student Name: __________________________________________________________________

Address: ______________________________________________________________________

Phone Number: __________________________________________________________________

Date: __________________________________________________________________________

THANK YOU!

Consent form should accompany video and entry form and be sent to:
V. Michael Mautino
Bayer Polymers LLC
100 Bayer Rd., Bldg. 2
Pittsburgh, PA 15205
Phone: 412-777-4792
Fax: 412-777-7864
E-mail: michael.mautino@bayerpolymers.com
Alchemists play an important role in not only in the history of science, but also in the imagination of the Western world. J. K. Rowling’s first book, Harry Potter and the Philosopher’s Stone, introduced a whole generation to the medieval alchemist Nicolas Flamel. This talk will cover the histories--real and mythical--of the Flamels and their alchemically-produced wealth, and then recount some wonderful stories told of other famed alchemists, including some known to Robert Boyle, himself an avid pursuer of alchemical secrets. The talk concludes with the claim that we should take alchemy more seriously--despite its often outlandish claims--and uses some surprising modern laboratory findings as evidence.

Bio
Lawrence Principe was an undergraduate at the University of Delaware where he received a B.S. in Chemistry and a B.A. in Liberal Studies in 1983. During this time, he developed his interest in the history of science, particularly the history of alchemy and early chemistry. He then entered the graduate program in Chemistry at Indiana University, Bloomington, where he worked on the synthesis of natural products. Immediately upon completing the Ph.D. in Organic Chemistry (1988), he reentered graduate school, this time in History of Science at Johns Hopkins University, and earned a Ph.D. in that field in 1996.

Since 1989, Professor Principe has taught Organic Chemistry at Johns Hopkins University. In 1997, he earned an appointment in History of Science and began teaching there as well. Currently he enjoys a split appointment as Professor between the two departments, dividing his teaching equally between the two at both graduate and undergraduate levels. He also enjoys annoying safety inspectors by performing alchemical experiments in his office.

In 1999, Professor Principe was chosen as the Maryland Professor of the Year by the Carnegie Foundation, and in 1998, he was the recipient of the Templeton Foundation’s award for courses dealing with science and religion. He has also won several teaching awards bestowed by Johns Hopkins.

Professor Principe’s interests cover the history of science of the Early Modern and Late Medieval periods, and focus particularly on the history of alchemy and chemistry. His first book was entitled The Aspiring Adept: Robert Boyle and His Alchemical Quest (1998), and he has since collaborated on a book on seventeenth-century laboratory practices (Alchemy Tried in the Fire) and on a study of the image of the alchemist in Netherlandish genre paintings (Transmutations: Alchemy in Art). He is currently at work on a long-term study of the chemists at the Parisian Royal Academy of Sciences around 1700.

For more information, call Gerry Churley at 412/825-3220 X204 or email to churley@pittcon.org
Parking Instructions: Duquesne University Parking Garage entrance is on Forbes Ave. Upon entering the garage, receive a parking ticket and drive to upper floors. Pick up a sticker at the dinner/meeting. Contact Mitchell Johnson at Duquesne University if any difficulties arise.
Tripartite Symposium

Sponsored by

Society for Analytical Chemists of Pittsburgh (SACP)
Spectroscopy Society of Pittsburgh (SSP)
American Chemical Society-Pittsburgh

**DRUG DISCOVERY:**
From the LAB to YOU

**DATE:**  SATURDAY, April 3rd, 2004
8:30 – 3:30 pm

**PLACE:**  104 College Hall, Duquesne University, Pittsburgh

**PROGRAM:**  See page 7

**Registration fee:**  $20.00 ($10.00 for student, retired, unemployed)

Make check payable to “SACP ”, and mail to
Tripartite Symposium, c/o SACP, 300 Penn Center Blvd, Suite 332, Pittsburgh, PA 15235

The symposium cost includes materials, refreshments, lunch and parking in 8th floor parking garage on Forbes Avenue in front of Duquesne University. Bring parking ticket to the seminar and you will be given a sticker for free parking. For location information go to the following Internet address:
http://www.duq.edu/campusmap/indexf.html

For further information contact Alice Chen at 412-825-3220 ext 124, chen@pittcon.org or Manny Miller at 412-442-4148, millerm@pittcon.org

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<td>Address__________________________</td>
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<tr>
<td>City <strong><strong><strong><strong><strong><strong><strong>State <em><strong><strong>Zip____Affiliation</strong></strong></em></strong></strong></strong></strong></strong></strong></strong>_______</td>
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<td></td>
</tr>
</tbody>
</table>

Drug Discovery Symposium registration fee paid:

$20.00__________$10.00______(Student, Retired, Unemployed)
Tripartite Symposium

Sponsored by

Society for Analytical Chemists of Pittsburgh (SACP)
Spectroscopy Society of Pittsburgh (SSP)
American Chemical Society-Pittsburgh

DRUG DISCOVERY: From the LAB to YOU
SATURDAY, April 3rd, 2004

8:30-9:00 am Registration

9:00-9:40 am
Drug Discovery: From the LAB to YOU
Prof. John S. Lazo, Chairman
Department of Pharmacology
University of Pittsburgh

9:40-10:10 am
Molecular Pharmacology: Proteomics and Chemical Libraries
Prof. Billy Day
Department of Pharmaceutical Sciences
University of Pittsburgh

10:10-10:40 am
Design, Synthesis and Screening of Peptide Mimetics: The Good, the Bad & the Ugly
Prof. Peter Wipf, Director
Combinatorial Chemistry Center
University of Pittsburgh

10:40-11:00 am Coffee Break

11:00-11:40 am
Anti-tumor Agents: Design and Synthesis
Prof. Aleem Gangjee, Director
Graduate School of Pharmaceutical Sciences
Duquesne University

11:40-12:20 pm
Drug Development: Preformulation, Drug Delivery System and Drug Production
Dr. Brian R. Dixon, VP
Research Technologies
Bayer Pharmaceutical Corporation

12:20-1:30 pm Lunch

1:30-2:20 pm
FDA Regulatory Roles for New Drugs
Dr. Ajaz S. Hussain, Director
Office of Testing and Research
FDA

2:20-3:10 pm
Social and Economical Issues
Mr. Chris Ward
Ward Health Strategies Canada, USA

3:10-3:30 pm
Wrap-up Discussion
**Wednesday, March 10, 2004**

*Duranti’s Restaurant*

128 N. Craig St.

Parking accessible from Neville Street

Social Hour (cash bar) 5:30pm

Dinner 6:30pm

Technical Presentation 7:30pm

*A NEW POLYMER SYNTHESIS PLATFORM VIA RAPID PROTOTYPING*

Kathryn L. Beers

National Institute of Standards and Technology

Gaithersburg, MD

Rapid prototyping of microfluidic devices has gained popularity due to the ability to quickly test and modify new design features several times in one day and the ability to integrate multiple functions on a single ‘chip.’ At the NIST Combinatorial Methods Center (NCMC), we modified common microfluidic fabrication techniques to extend their use to organic fluids. This enables the preparation of new types of combinatorial material libraries and development of new measurement methods to complement the small sample sizes within these libraries. Most importantly, it can be used to tie together multiple stages of the formulation process, from the synthesis of polymers to the measurement of complex-fluid properties, in small and inexpensive platforms.

We are applying this technology to controlled polymer synthesis, and interfacial tension and viscosity measurements of materials for applications in polymer emulsions and blends. Synthetic variables include molecular weight and copolymer composition. Measurement techniques include optical microscopy, light and x-ray scattering and magneto-rheology.

The focus of the discussion will be the use of such a technique to carry out small-scale continuous polymerizations. Controlled radical polymerization was used to prepare polymers with defined molecular weight and narrow polydispersity. The introduction of multiple inputs and a mixing element enables us to manipulate reagent concentrations and, therefore, various molecular parameters such as molecular weight and composition.

For dinner reservations please contact Terri Menz (University of Pittsburgh at Greensburg) Tel: 724-838-8038, menzt@pitt.edu no later than Monday, March 8th, 2004. The cost of dinner is $16.00 per person; discount rate of $11.00 for retirees; no charge for students.

*All are welcome!*
With a new ACS Board of Director’s chair, new board members, a new president, and a new executive director/CEO, it is obvious that the Society will undoubtedly be moving in some new directions. Various members of the Board have expressed their concerns and desires on where the ACS needs to focus its future efforts. This article will focus on where the ACS believes it needs to focus its communication efforts for the future.

Past-President Eli Pearce believes the ACS needs to focus on “diversity, education, and legislative advocacy for science education and research.” To sustain the future growth of our profession, “the Society will need to put additional effort and resources towards attracting diverse groups to our ranks.” This must include better communication between the Society and the diverse groups that reside within our local sections.

Although there has been a modest increase in the number of members involved in legislative advocacy, members are encouraged to communicate with Congress when issues critical to chemistry arise. To learn more about the current issues in this area, visit the ACS Legislative Action Center. This site will identify your elected officials, provide information on key issues, and allow you to send a letter or e-mail message to your legislators with a few clicks of your mouse. Visit http://congress.nw.dc.us/chemical/home/ for more information. Again, communication is a key component in this area.

Immediate Past-President, Elsa Reichmanis, outlined her desire to see the continuation of meetings between the ACS Board of Directors and Executive Committee and top industry leaders and getting buy-in from senior executives that involvement in ACS is a “good thing,” as it provides a wealth of benefits to both members and the industry. Dr. Reichmanis, as well as many in the Society, believe that it is “critical to having mid-level managers favorably inclined toward allowing our members (their employees) to stay involved in the ACS.” More needs to be done to reach out to these managers, demonstrating the value to them when their employees get involved in the Society. For additional information on the value that the ACS brings to industry, visit the ACS’s Industry Members Program website at http://chemistry.org/industry

Current ACS President Charles Casey also believes communication is key to the success of the Society. During his term as President, Casey will continue 2003 ACS President Reichmanis’ emphasis on communication of the value of basic and applied chemistry to society, that “we all should take up the challenge of communicating the importance and excitement of chemistry to the general public.” One great way of communicating the importance of chemistry to the public is through volunteering for community outreach efforts in your local section. Visit the ACS’s Office of Community Activities (OCA) for information on such activities as National Chemistry Week, Chemist Celebrate Earth Day, and the Chemagination contest. Visit OCA’s website for more information: http://chemistry.org/oca

Communication from you, as a Pittsburgh Section ACS member, is also vitally important. Your opinion on where and how the ACS should focus its efforts needs to be heard, so that the Section and the Society can act upon your concerns. If you have any questions, comments, or concerns that you would like to see addressed regarding the ACS, feel free to contact any of the Pittsburgh Section Councilors. Remember, as Pittsburgh Section ACS members, you elected these four Councilors to be YOUR voice on the national level.

Submitted by Pittsburgh Section Councilors: Richard S. Danchik, V. Michael Mautino (Author), Brian R. Strohmeier, and Theodore J. Weismann

---

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Contact: Robert W. Baudoux, Sr. at Phone or FAX nos. below
Pittsburgh Area Calendar

March

Wed.  10  **Polymer Group**
Duranti’s Restaurant
“A New Polymer Synthesis Platform Via Rapid Prototyping”
Kathryn L. Beers

Thurs.  11  **Energy Technology Group**
More Restaurant
Reorganization Meeting

April

Sat.  3  **Tripartite Symposium**
104 College Hall, Duquesne University
“DRUG DISCOVERY: From the LAB to YOU”

Mon.  5  **Society for Analytical Chemists of Pittsburgh (SACP)**
Duquesne University, Maurice Falk Hall
“Harry Potter, Nicholas Flamel and Other Marvelous Alchemists”
Lawrence Principe, Professor of History of Science, Medicine, and Technology, and of Chemistry
Johns Hopkins University

May

Tues.  18  **2004 Conference on Reburning for NOx Control**
NETL Conference Facility, Morgantown, West Virginia
http://www.netl.doe.gov/events/04conferences/NOx/
If you have any questions, please contact NETL Event Management at 304-285-4750 or event.management@netl.doe.gov.

The Crucible

A newsletter of the Pittsburgh Section of the American Chemical Society

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Aliquippa, PA 15001

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