



ALI "QUOTES"

Volume 15, Issue 4

THE NEWSLETTER OF THE PRINCETON ACS

September/October 2005

UPCOMING MONTHLY MEETINGS

Joint meeting of the ACS and AICHE

Monday, September 19, 2005

Student Poster Session and Reception

Princeton University, Friend Center Auditorium &
Convocation Room

Our guest speaker will be

Congressman Rush Holt

Rush Holt, 56, is a resident of Hopewell Township, N.J. Born in West Virginia he inherited his interest in politics from his parents. His father was the youngest person ever to be elected to the U.S. Senate, at age 29. His mother served as Secretary of State of West Virginia and was the first woman to have held that position.

Rep. Holt earned his B.A. in Physics from Carleton College in Minnesota and completed his Master's and Ph.D. at NYU. He has held positions as a teacher, Congressional Science Fellow, and arms control expert at the U.S. State Department where he monitored the nuclear programs of countries such as Iraq, Iran, North Korea, and the former Soviet Union. From 1989 until he launched his 1998 congressional campaign, Holt was Assistant Director of the Princeton Plasma Physics Laboratory, the largest research facility of Princeton University and the largest center for research in alternative energy in New Jersey. He has conducted extensive research on alternative energy and has his own patent for a solar energy device. Holt was also a five-time winner of the game show "Jeopardy."

An active Member of Congress and a strong voice for his constituents, Rep. Holt serves on two committees, including the Committee on Education and the Workforce and the House Permanent Select Committee on Intelligence. Holt is the only scientist and only Member from the New Jersey delegation to

sit on the Intelligence Committee, where he serves as the ranking minority member on the Intelligence Policy subcommittee. He is also on temporary leave from a third committee, the House Committee on Resources. Holt is also a member of the bipartisan Commission on Congressional Mailing Standards or the "Franking Commission."

Holt has had the honor to serve on the National Commission on Mathematics and Science Teaching for the 21st Century chaired by former Senator and astronaut John Glenn and currently sits on several caucuses, including those on Renewable Energy, Sustainable Development, Alzheimer's, Diabetes, Biomedical Research, India and Indian-Americans, Hellenic and Greek-American affairs, Farmland Protection, Human Rights, and a Woman's Right to Choose. Rep. Holt is also a member of the New Democrat Coalition.

Rep. Holt has received numerous awards and citations for his work, including the Planned Parenthood Community Service Award, the Biotech Legislator of the Year, and the Science Coalition's Champion of Science award. The magazine Scientific-American has also named Holt one of the 50 national "visionaries" contributing to "a brighter technological future."

Reservations

The meeting will be held in the Friend Center Auditorium, Princeton University (see www.princeton.edu/~pacs for more information). Seminar is at 6 PM. It is free and open to the public. It will be followed by a reception and poster session in the Convocation Room. Reservations are required for the reception, which is \$15 for members and \$5 for students. All reservations will be billed, for the section pays on the number of reservations, not the number of attendees. Please contact Denise D'Auria at (609) 258-5202 or denised@princeton.edu by Monday, September 12th to make or cancel reservations.

**PACS Dinner Meeting
Thursday, October 13, 2005**

Wyeth Research, Monmouth Junction, NJ

Our guest speakers will be

John Dunlop, Ph.D. Wyeth Research
Director, Neuroscience Discovery Research,

“Something for Everyone in the Pharma
Industry”
and

Jerauld Skotnicki, Ph.D., Wyeth Research
Director, Chemical and Screening Sciences

“Life on the Pharm: The Chemistry Behind the
“Chemistry” at Wyeth”

Social Hour 5:00 pm, Wyeth Cafeteria
Lecture 6:00 pm, Wyeth Auditorium
Buffet Dinner Following lecture, in Cafeteria

Reservations: The seminar is free and open to the public. Reservations are required for dinner, which is \$25 for full members, \$15 for retirees and \$10 for students. All reservations will be billed, for the section pays on the number of reservations, not the number of attendees. Please contact Denise D’Auria at (609) 258-5202 or denised@princeton.edu by Thursday October 6th to make or cancel reservations.

Directions: Take Route 1 to Ridge Road (Route 522). Rt 1 is approximately 9 miles north of I-95 in Lawrenceville and approximately 13 south of Route 18 in New Brunswick. Head east on Ridge Road, approximately 1/3 mile, through traffic lights on Schalks Crossing Road. Wyeth Research is on the left. Park in the front Visitor’s Lot.

The abstract and biography will be posted on our website www.princeton.edu/~pacs.

Chairman’s Corner

I hope you are having an enjoyable summer! The section has been quite productive since the last newsletter. We have had discussions with the Central New Jersey Council of the Boy Scouts of America on ways we can work together to foster chemistry (for girls and boys!). We have submitted an Innovative Grants Program proposal to the Local Section Activities Committee (LSAC). We are requesting funds for a membership campaign. As a

section, we have been able to conduct quite a few programs to support our membership spread an awareness and appreciation of chemistry in the community. Increased active membership, however, is fundamental to the continuation and expansion of these efforts. The LSAC will be reviewing the proposals at the National ACS Meeting in August and notifying the sections of their decisions in September. Wish us luck!

We have an interesting fall lineup of meetings. The September event will be somewhat different than our usual meetings. It will be held jointly with the Princeton Section of the American Institute of Chemical Engineers (AIChE), and Rep. Rush Holt will be the guest speaker. Following his talk, instead of a more formal sit down dinner, there will be a student poster session and reception. This format will give ample opportunity for networking and socializing. October will bring changes as well. The meeting will be held at Wyeth Research in Monmouth Junction. A great program is planned with Dr. John Dunlop and Dr. Jerauld Skotnicki from Wyeth Research. They will discuss the drug discovery process from a biological and chemical perspective. There will be a social hour before the meeting, followed by a buffet dinner after the seminar. I hope you can join us for one or both! Also, I am interested in your thoughts on these new arrangements; please let me know how you like it (email L_lawter@hotmail.com).

Fall is the time to start planning for 2006. Elections for new officers will be held in November. Have you been thinking of getting more involved in the section? One great way is to serve on the board. Directors are needed to chair or support our outreach activities. One of the best ways to learn about the workings of your local section is to serve as Chair-elect. The ACS provides leadership development training to all new Chairs-elect to help them develop the skills to run the section and to learn about the support provided by the National ACS. This can be a great career enhancement tool. If you are interested or would like to know more about the process, send me an email at L_lawter@hotmail.com. You are also welcome to attend our next board meeting on August 22nd at Wyeth Research (see calendar for details.) Hope to see you there!

Louise Lawter, Chair 2005

Hubert Alyea Awards Presented

This past April, letters were sent to area science teachers to solicit candidates for the Hubert Alyea Award. This award is given on an annual basis to students, usually at senior level, who have demonstrated enthusiasm for the study of science and have distinguished themselves as students who excel in chemistry and related scientific disciplines.

The namesake of this award, Hubert Alyea, was a Professor of Chemistry at Princeton University who was world renowned for his scientific demonstrations, his enthusiasm, and his love of scientific discovery. This award is unique in that it leaves the criteria for the award at the discretion of the Science Department of each high school. The one stipulation made by the Award Committee is that the award not be based on test scores or grade point averages. The section seeks to recognize the student who is excited by scientific discovery, as was the award's namesake, Hubert Alyea.

This years winners are:

Alexandra Konings -	Stuart Country Day School
Daniel Hayes-Patterson -	The Lawrenceville School
Stephanie Kuhn -	West Windsor-Plainsboro South
Morgan Barth -	The Hun School
Nitin Sitaraman -	Montgomery High School
Kishore Chundru -	Princeton Day School
Whitney Paterson -	Princeton High School

Awards were presented on May 28th at the Chemistry Department's Alyea Memorial Demonstration Lectures. The students received a plaque and a check for \$100.

Congratulations to all of you!

Coaches Needed for Science Olympiad

We have been asked by Hallie Kleinfeld-Hayes, a Montgomery Middle School teacher, to assist with their program this fall. The board agreed to do so, and also to offer help to other schools. The MMS team will begin training for the competition in September. Volunteers are needed to serve as coaches, who would meet with the students during after-school hours once a week. If you are interested in helping out with this effort or learning more about the program, please contact Louise Lawter at L_lawter@hotmail.com or Bill Barnard at Zev4US@yahoo.com.

Fifty-Year Members Honored

Our fifty-year members for 2005 are Dr. Bingham Y. K. Pan now residing in Monterey Park, CA, and Dr. Charles Anthony Panetta of University, MS. Congratulations to both of you on this accomplishment!

2005 OFFICERS / COMMITTEE CHAIRS

Chair:

Louise Lawter
L_Lawter@hotmail.com

Outreach

Bill Barnard
Zev4US@yahoo.com

Chair-Elect:

Istvan Pelczer
Princeton University
(609) 258-2342
ipelczer@princeton.edu

Secretary / Treasurer:

John Chiarello
FMC
(215) 321-4879
JOHN_CHIARELLO@fmc

Councilor:

Lynne Greenblatt
Wyeth Research
(732) 274-4549
greenbl1@wyeth.com

Councilor:

Barbara Lences
Wyeth Research
(732) 274-4678
lencesb@wyeth.com

Alt. Councilor:

Kathryn Wagner
Princeton University
(609) 258-2937
kmwagner@princeton.edu

Alt. Councilor:

Sharon Sibilia
(609) 520-1288
sibilia@erols.com

Webmaster:

Jonathan Chun
Alliance Technologies, LLC
(732) 355-1234
jchun@alliancetechgroup.com

Education:

Andrew Bocarsly
Princeton University
(609) 258-3888
bocarsly@princeton.edu

MARM 2006 , June 4-7, 2006,

"Chemistry in Chocolate Town," Hershey Lodge and Convention Center, Hershey, PA. Organized by the Southeastern Pennsylvania and Susquehanna Valley Sections in collaboration with MARM Sections. Help organize MARM 2006. GET INVOLVED! Contact general or program co-chairs; visit the MARM website (www.marm2006.org)

2005 US National Chemistry Olympiad by Bruce Burnham, Program Chair

The Trenton and Princeton sections of the ACS jointly held the 2005 US National Chemistry Olympiad over the months January through April. One hundred sixty-nine students representing eleven of the local high schools took the local exam. Twelve of the students who earned the top scores on this exam were selected to take the National exam at Rider University on Saturday, April 16, 2005. The local exam administered at the participating high schools was made up of 60 multiple-choice questions. The National exam consisted of three parts: Part I: 60 multiple-choice questions, Part II: 8 problem-solving/explanation questions, Part III: 2 laboratory problems, a lab practical exam. A special recognition goes to **Peter Wei** of **West Windsor-Plainsboro HS South** who was selected among the top-20 National Finalists. Peter participated in the Study Camp held at the US Air Force

Academy in Colorado Springs, CO June 5-19, 2005. The top six students from the Study Camp then represented the United States in the 37th International Chemistry Olympiad (IChO) in Taipei, Taiwan, July 16-25, 2005. The USA team won three silver medals and one bronze medal. South Korea won first place (four gold medals), followed by Vietnam (three gold medals, one silver medal), Iran, Russia, Taiwan had the same (two gold medals, two silver medals)

The Trenton Section also recognizes Peter Wei of West Windsor-Plainsboro HS South and Pelu Tran of The Peddie School for achieving the highest score (55/60) on the local exam. Likewise, the Princeton Section recognizes Kyle Salasko, Chris Rogers and Praveen Kher of Montgomery High School for achieving the highest score (53/60) on the local exam. Unfortunately, due to prior commitments Kyle, Chris and Praveen were unable to participate in the National exam. The twelve local finalists for the National exam were recognized at the Trenton Section Awards Banquet held on May 10, 2005 at Amalfi's Restaurant in Lawrenceville. The following students participated in taking the National exam on April 17:

From the Trenton Section:

Pelu Tran and Andrew Pak from The Peddie School sponsored by Peter Melcher
Peter Wei and Jerrald Chen from West Windsor-Plainsboro HS South sponsored by Karen Galley
Alex Yang from Hopewell Valley Central High School sponsored by Dr. Lillian Rankel
Samuel Norman-Haignere from Lawrence High School sponsored by Beth Volpe
Andrew Sedgewick from The Lawrenceville School sponsored by Mary Calvert
Nathaniel Weintraub from Notre Dame High School sponsored by Lois Omland

From the Princeton Section:

Oliver Conway and Pierce Tria from Princeton High School sponsored by Linda Kruegel
Morgan Barth and Ross Uhrich from The Hun School of Princeton sponsored by Matt Treichel

All of the students seemed to enjoy and value their experience participating in the Chemistry Olympiad. We hope to have our best high school chemistry students continue to represent our section well in the US National Chemistry Olympiad for many years to come.

The 2005 USNCO High Schools and Teachers were:

Trenton Section

Lois Omland: Notre Dame High School
Beth Volpe: Lawrence Twp High School
Kimberly Collura: West Windsor-Plainsboro HS North
Mary Calvert: Lawrenceville School
Dr. Lillian Rankel: Hopewell Valley Central High School

Arthur Poulos: SciCore Academy
Karen Galley: West Windsor-Plainsboro HS South
Pete Melcher: The Peddie School
Sarah Stocking: Steinert High School

Princeton Section

Linda Kruegel: Princeton High School
Matt Treichel: The Hun School of Princeton
Jason D. Sullivan: Montgomery High School

NATIONAL CHEMISTRY WEEK 2005

We hope to see all the old faces and many new ones for the next National Chemistry Week Open House on FRIDAY, OCTOBER 21, 2005, when the theme will be "THE JOY OF TOYS." If you'd like to join the fun, or if you have ideas for activities, e-mail Kitty Wagner, kmwagner@princeton.edu, or call 609 258-2937. **SAVE THE DATE!**

**Section Supports
Chemistry Merit Badge**

This past spring, we were contacted for Dr. Barry Streusand, a member of the Central Texas Section. He was requesting support from local ACS sections and others for the Boy Scout of America Chemistry Merit Badge Booth at the National Jamboree. He served as one of the organizers of this event which was taking place July 25-August 3, 2005 at Fort A.P.Hill, Virginia. This event is held every four years and in the past has been attended by 40,000 scouts with up to 20,000 visiting the chemistry booth and 3000 scouts completing the merit badge. The target audience for earning the merit badge is 11-17 year old boys.

The Chemistry Merit Badge booth consists of six stations. Participants who wish to earn the chemistry merit badge register at the booth. They then revisit it as needed during the 10-day event to complete the requirements. Many will visit the booth out of interest and to learn from the displays or demonstrations that take place. A "Chemist of the Day" is featured for each day of the Jamboree. He/she spends the day doing whatever demos fit their interest and allow an informal venue for the visitors to chat with a real scientist.

In keeping with one of the sections goals of promoting the pursuit of chemistry, the executive committee voted to donate funds in support of the Boy Scouts of America

Chemistry Merit Badge, provided it could be done on the local level. This was both possible and welcomed, and on June 7th, a check for \$400 was presented to Marc Richardson, Scout Executive of the BSA Central Jersey Council and Antoinette Layton, BSA Field Director, by Princeton ACS councilor Lynne Greenblatt and Chair, Louise Lawter.

Working with other organizations is an effective way of expanding our section's efforts, and we are exploring other future joint activities with the Boy Scouts and Girl Scouts.



Left to right: Lynne Greenblatt presenting check to Marc Richardson and Antoinette Layton of the BSA Central Jersey Council

The June Barbecue

As a fitting start to summer, the section had its traditional barbecue for the last meeting of the season on June 15th. After a very interesting talk on the development of the Cypher® stent by Dr John Siekierka of Johnson & Johnson PRD, the group reconvened to Prospect House for a delightful evening in the garden.



Do you recognize anyone?

2005 Calendar Of Events

Princeton Section

Monthly meetings are held at Princeton University, Frick Laboratory unless noted otherwise. Lecture is at 6PM. Contact Denise D'Auria at (609) 258-5202 or denised@princeton.edu for more information.

September 19: Rep. Rush Holt, NJ Congressman, 12th District. Topic: TBA. Meeting location: Princeton University, Friend Center auditorium

October 13: John Dunlop, Ph.D, Wyeth Research. Topic: "Something for Everyone in the Pharma Industry and Jerauld Skotnicki, Ph.D, Wyeth Research Topic: "Life on the Pharm: The chemistry behind the "Chemistry" at Wyeth". Social hour 5:00pm. Location: Wyeth Research, 865 Ridge Road, Monmouth Junction, NJ

November 9: Andrea Mandel, Packaging Consultant. Topic: Chemistry and Packaging

December 8: Irving Fishman, Patent Attorney. Topic: Technical Patents

Trenton Section

Meetings are held at Rider University, Fireside Lounge. Dinner is at 6PM followed by the lecture at 7PM. For more information contact trentonacs@lycos.com.

September 13: Barbara Cohen, speaker. Topic: "America's Scientific Treasures.

October 11: Joint meeting with the Mid-Atlantic Computational Chemists Group (MACC's).

November 8: Justin Holub, Doctoral Candidate, Department of Chemistry, New York University. Topic: "Clickity click: highly-functionalized peptoid oligomers generated by sequential azide-alkyne [3+2] cycloaddition reactions on solid phase support."

December 13: Les Sperling, Professor, Lehigh University Center for Advanced Materials and Nanotechnology. Topic: "The Molecular Basis of Fracture in Plastics."



Princeton Section ACS

Department of Chemistry
Princeton University
Princeton, NJ 08544-1009

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