

The Crucible



<http://membership.acs.org/P/Pitt>

Volume: XCI No.7

March 2006

Federal Energy Policy & You

ACS Pittsburgh Section's first government relations program in more than a decade was held on January 11, 2006. Cosponsoring along with our Section were SACP, AIChE (Pittsburgh Chapter), and the Energy Technology Group of the Pittsburgh Section. Duquesne University, our host, was a co-sponsor.

The three speakers were:

•Dr. Gerst

Gibbon, retired, National Energy Technology Labs (US DOE) gave the introduction on the "US Energy Sources and Consumption"

•Mr. Michael Eastman, NETL, Pittsburgh spoke on "providing options for the Energy Future of the United States"

•Mr. Ed Cummins, Westinghouse Electric Co., spoke on the "Resurgence of the Nuclear Option"

The attendance exceeded expectations with an audience of over 110 filling the Duquesne Room of the Student Union building at Duquesne University. A lively question and answer session followed the talks. We were honored by the presence of Dr. Irving Wender, Professor of Chemical Engineering at the University of Pittsburgh, and former Director of the Pittsburgh Energy Technology Labs (now NETL), US DOE who is considered as the "dean" of energy R&D in the Pittsburgh region.

Our host institution was represented by Dr. David Seybert, Dean, Bayer School of Natural and Environmental Sciences, Duquesne University. Representing AIChE, Pittsburgh Chapter, were David

Missenda and Gary Hall, Chair and Chair-Elect respectively, and members of the organizing committee. The Pittsburgh Section was represented by Dr. Christina Mastromatteo, Chair-Elect, and Dr. Mordecai Treblow, Chair, Government

Relations Committee, who had originated the concept of the meeting in the ACS Pittsburgh Section. Mr. Thomas Sarkus, Division Director, Applied Science & Energy Technology, NETL, represented the ACS Pittsburgh Section's Energy Technology Group of which he is Chairman. Dr. James Manner, Chair of the Pittsburgh Section, had applied successfully for a grant for the program from national ACS under the Innovative Projects Grant program of the ACS Committee on Local Section Activities. Dr. Patricia Bordell, Chair of SACP Continuing Education Committee, very ably chaired the organizing committee and conducted this successful event.

Submitted by Mordecai Treblow

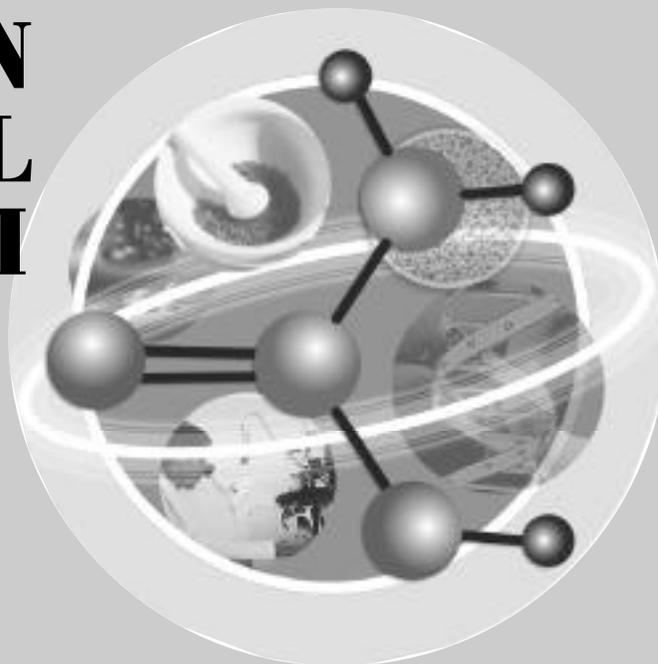
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2006 EASTERN ANALYTICAL SYMPOSIUM Call for Papers

November 13-16, 2006
Garden State Exhibit Center
Somerset, NJ

Deadline – April 15, 2006



Celebrating the Diversity of Science

The Eastern Analytical Symposium is the second largest meeting in the United States dedicated to the needs of analytical chemists and those in the allied sciences. Please help us to make the 2006 EAS the best ever—be a part of the program by contributing your own papers for inclusion in the oral or poster sessions.

We invite you to submit a contributed presentation for the 2006 EAS Technical Program. Please submit abstracts through our web site at www.eas.org, after March 1, and follow the instructions for preliminary abstract submission. **Invited speakers should not submit preliminary abstracts to EAS, although your session organizer may request one for his/her use.** All preliminary abstracts must be submitted electronically via the EAS web site at www.eas.org. The abstract submission deadline is April 15, 2006. Please visit our web site for a list of session topic areas.

Please carefully review the following information:

1. All preliminary contributed abstracts will be submitted electronically in 2006. No faxed, e-mailed, or mailed preliminary abstracts will be accepted.
2. The title of the presentation and the list of authors that you submit are final, and may not be changed.
3. The preliminary abstract that you submit will be considered to be your final abstract for use in the abstract book for the 2006 Eastern Analytical Symposium.
4. All preliminary abstracts will be acknowledged via e-mail.
5. Presenting authors of contributed submissions will be notified in June 2006 of the status of the abstract and its session assignment.

For information on the technical program at the 2006 EAS, please contact:

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TRIPARTITE SYMPOSIUM
NANOSCIENCE FROM RESEARCH
TO INDUSTRY

Presented by
The American Chemical Society, Pittsburgh Section
The Society for Analytical Chemists of Pittsburgh
The Spectroscopy Society of Pittsburgh

Wednesday, April 12, 2006 2:30-5:45 p.m.

Fee: \$10.00 - Students Free

Ashe Auditorium, Chevron Center, The University of Pittsburgh, Pittsburgh, PA
(Refreshments and free parking in the Soldiers and Sailors Garage on
Bigelow between Fifth Ave and O'Hara is included)

PROGRAM

- 2:15 p.m. Registration. Bring Parking ticket to receive free parking sticker.
2:30 p.m. Welcome and Introduction
2:40 p.m. Blind, Deaf and Tough; Nanoperiodic Polymers
Dr. Edwin Thomas, MIT, Head of the Department of Material Science and Engineering
3:30 p.m. Crystalline Colloidal Self Assembly of Photonic Crystal Smart Materials for Chemical
Sensing and Optical Devices
Dr. Sandy Asher, The University of Pittsburgh, Department of Chemistry
4:15 p.m. Toward Soft Nanotechnology: Putting Macromolecular Self-Assembly to Work
Dr. Tomek Kowalewski, Carnegie Mellon University, Department of Chemistry
5:00 p.m. Pennsylvania Nanomaterials Commercial Center
5:45 p.m. Refreshments, lobby Ashe Auditorium

Registration Form (registration deadline April 7, 2006)

Please make \$10.00 check payable to ACS Pittsburgh Section. Students free

Send this completed form to:

Dr. James Manner, 125 Oak Pointe Dr, Monroeville, Pa. 15146

Email: manner@peoplepc.com

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Society for Analytical Chemists of Pittsburgh



April Meeting

Monday, April 3, 2006

Duquesne University, Maurice Falk Hall

Former Chairmen's Night

"Thinking Like Einstein"

Professor John D. Norton

Center for Philosophy of Science and Department of History and Philosophy of Science

Social Hour 5:30 P.M.

Student Affiliates Meeting, Duquesne Room (Student Union) 5:45 P.M.

Dinner - Student Union, City View Café (6th Floor) 6:30 P.M.

Business Meeting - 7:40 P.M.

Technical Presentation 8:00 P.M. Maurice Falk Hall

In 2005 we celebrated the centenary of Einstein's discovery of the special theory of relativity. Einstein later recalled that the discovery came after seven and more years of hard work and he associated decisive points in this work with illuminating thought experiments. I will describe several of these thought experiments and review recent work in history of science that brings us a clearer appreciation of how these thought experiments contributed to Einstein's discovery.

Bio:

Professor Norton is the Director of the Center for Philosophy of Science and a past Chair of the Department of History and Philosophy of Science at the University of Pittsburgh. He has studied Einstein's work in physics extensively and was the first to reconstruct the content of Einstein's "Zurich Notebook," in which Einstein recorded in some detail the calculations that led up to his general theory of relativity. He has been a contributing editor to the Einstein Papers Project and is a member of its Executive Committee.

Dinner Reservations: Please e-mail William Straub at straub@pittcon.org, by Thursday, March 30, to make dinner reservations. Bill's preference for reservations is an e-mail. Should you not have email, please call 412-372-8312. Dinner will cost \$8 (\$4 for students) and checks can be made out to the SACP. If you have any dietary restrictions, let Bill know when you leave message. **Parking:** Duquesne University Parking Garage entrance is on Forbes Avenue. Upon entering the garage receive parking ticket and drive to upper floors. Pick up a parking sticker at the dinner or meeting. Contact Dr. Mitch Johnson at Duquesne University if any difficulties arise.

ACS Responds to Members Affected by Gulf Coast Hurricanes

Following the devastation to the Gulf Coast wrought by this year's major hurricanes, a Hurricanes Response Task Force was created to identify ways in which the Society can help ACS members who live and work in those areas.

At the recent ACS Board of Directors meeting, the Board voted to accept the recommendations made by the Task Force:

That the Society declare a suspension of dues for a period of 12 months to the 302 ACS members in the hardest hit regions affected by the Gulf Coast hurricanes. These members will be moved to an unemployed dues waiver status and be treated as "paid active" for a period of 12 months, starting the date following the current paid date.

That all members (approximately 564) in the postal zip codes that were at one time considered undeliverable be eligible to "opt - in" to the unemployment dues waiver status. Members will have the option to continue their dues as routine, or postpone dues payment via an "opt - in" feature.

Members in the affected areas will soon be notified. The Board expressed its appreciation to the Hurricanes Response Task Force for its effective response to this significant crisis.

*ACS Cut and Paste
January/February 2006*

The SSP and SACP will not be meeting in March due to Pittcon 2006
"Foundations for Science."
The Pittsburgh Conference will be held in Orlando, FL
March 12-17, 2006



*WPTAG
Proudly Presents a Special Event*

*Join the Western Pennsylvania
Technician Affiliate Group As We
Celebrate Our 10th Anniversary!*

Date: March 10, 2006

Time: 11:30 a.m. to 1:30 p.m.

*Location: Bidwell Training Center
Auditorium 1815 Metropolitan Street,
Pittsburgh, PA*

Program

- 11:30 a.m. Welcome and Introductions
- 11:40 a.m. "The ACS and You"
Denise Creech - Director, ACS Membership Division
- 12:10 p.m. "WPTAG - From a Vision to a Reality"
Dr. C. Gordon McCarty - Director-At-Large,
ACS Board of Directors
- 12:25 p.m. "WPTAG - Vision for Tomorrow"
Dr. Larry Friedman - ACS Advisor,
Bayer MaterialScience LLC
- 12:35 p.m. Open Discussion
- 12:45 p.m. Luncheon Reception

Open to all. Non members are welcome to attend.

*Please RSVP by March 7, 2006.
Contact Bernice Karp, WPTAG Chair,
at bernice.karp@lanxess.com or 412-777-2628*

PITTSBURGH AWARD
Call for Nominations

The Pittsburgh Award was established in 1932 by the Pittsburgh Section of ACS to recognize outstanding leadership in chemical affairs in the local and larger professional community. This Award symbolizes the honor and appreciation accorded to those who have rendered distinguished service to the field of chemistry. The Award consists of a plaque presented annually at a Section dinner. Members of the Pittsburgh Section, or in exceptional cases, nonmembers, who have done work worthy of recognition toward increasing chemical knowledge, promoting the chemical industry, benefiting humanity, or advancing the Pittsburgh section, are eligible for consideration.

Nominations for the Pittsburgh Award are solicited from the membership of the Pittsburgh Section. The form can be found on the section's website. <http://membership.acs.org/P/Pitt>. Look for form PITTS_AWARD FORM.doc. Please send all nominations to Jim Manner at manner@peoplepc.com, by May 15, 2006.



WPTAG - How it All Began! 1996 - 2006 10th Anniversary Celebration

(This is the first in a series of articles to be published in 2006 in honor of WPTAG's 10th Anniversary)

In March 2006 the Western Pennsylvania Technician Affiliate Group (WPTAG) will celebrate its 10th anniversary. Due to the transient nature of an organization built on volunteers, the institutional memory of an organization can be lost over time. This article, along with others to come in 2006, will attempt to capture some of that memory, as well as look at how far WPTAG has come in meeting the goals and objectives the group set out to achieve ten years ago.

The idea for a professional association of chemical technicians in western Pennsylvania was a long time vision of Dr. C. Gordon McCarty, who in the early 1990's was a Councilor for the Pittsburgh Section of the American Chemical Society (ACS) and chair of the ACS's national committee, the Local Sections Activities Committees. It was at the national ACS level that Dr. McCarty learned of the Technician Affiliate Group (TAG) concept and of the success the various TAGs from across the country were having in providing a professional organization for chemical technicians, with some TAGs having existed since the early 1970's. Gordon's longtime and active involvement with the ACS had allowed him to see first hand the positive effect such associations have on their members. Although for many years the Pittsburgh Section had an active teacher affiliate group and student affiliate chapters, there was no organization to address the professional and career development needs of chemical technicians in the western Pennsylvania area.

Early encouragement for the formation of a TAG in Pittsburgh came from many places. Initial involvement began with the Pittsburgh Section ACS' Executive Committee, the national chair of the ACS' Committee on Technician Activities, the ACS' Division of Chemical Technicians, and a focus group comprised of the Bidwell Training Center's Advisory Board. The idea was there. The support was there. The next question and most important was "is there interest in such a group from the

local body of chemical technicians?" To answer this question and get a sense of if a TAG would be viable in the Pittsburgh area, an interim steering committee was formed consisting of technicians from several local chemical companies, members of the Pittsburgh Section's Executive Committee and the Bidwell Advisory Board.

The first meeting of the steering committee took place at the Bidwell Training Center in October 1994. Dennis Marshal, the chair of the ACS's Division of Chemical Technicians, was on hand to address the group, providing a sense of the professional benefits a technician affiliate group could provide for its members. A follow up meeting was held in May 1995 with a group of chemical technicians representing Alcoa, Aristech, Bayer, Calgon Carbon, Neville Chemical, PPG Industries, and Pressure Chemical. This meeting was also attended by the 1995 Chair of the Division of Chemical Technicians, who was on hand to offer insight on her experiences in her TAG in Wilmington, DE. A third meeting was held in October 1995, where the ground work was set to begin the process of building a TAG in Pittsburgh. Soon after, the group was able to structure an organization that would meet the ACS's requirements for an official probationary affiliate group and a new TAG was born.

After almost two years of planning, WPTAG held its charter meeting on March 28, 1996

at the Bidwell Training Center. Roughly eighty chemical technicians and students from the western Pennsylvania area were greeted in the lobby by the interim executive committee. The meeting was opened with a presentation from Dr. Gordon McCarty titled "Welcome to WPTAG - A New Professional Organization." In addition, WPTAG's first Chair, Robert Zinkhan, gave a presentation titled "WPTAG - What Happens Now." From this meeting, WPTAG's initial committees were established, including Newsletter, Recognition, Membership, Programming, and Continuing Education. As noted in the "WPTAG Newsletter" (Summer 1996, Volume 1, Issue 1), "everyone seemed enthusiastic about the future of the WPTAG."

Since that charter meeting in 1996, WPTAG has grown into a successful TAG, continuing to meet its goals of promoting community awareness of the technician's role in the chemical industry, of providing interesting and informative programs for technicians and students, and providing technicians a network with their peers. During the past ten years, WPTAG has won five national awards from the ACS' Division of Chemical Technicians in recognition of the programs, activities, and benefits the TAG has provided to its members and the technician community. WPTAG continues to

Continued on Page 9

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This Month in Chemical History - #1

Harold Goldwhite

California State University, Los Angeles

hgoldwh@calstatela.edu

Prepared for SCALACS, the Journal of the Southern California, Orange County, and San Gorgonio Sections of the American Chemical Society

In my (apparently insatiable) search for early chemistry texts I recently acquired "The Elements of Medical Chemistry" by John Ayrton Paris M.D., F.R.S., F.L.S., Fellow of the Royal College of Physicians of London. This leather-bound volume, published in New York in 1825, has a quotation from Joseph Priestley on its title page: "The objects of Science are so multiplied that it is high time to subdivide them. Thus the numerous branches of an overgrown family in the Patriarchal ages found it necessary to separate; and the convenience of the whole, and the strength and increase of each branch, were promoted by the separation." This I take to be the author's apologia for a narrowly focused work on Medical Chemistry, and he claims that his is the first work in English to be devoted to those aspects of chemistry most useful to the medical practitioner.

In classic fashion, and in place of the usual preface, we are given a 16 page dialogue "Between the Author [A] and a Practitioner [P] who is about to direct the Medical Studies of his Son." A few quotations will give the flavor of this exchange. "A: ...I feel no small degree of diffidence in offering advice to a practitioner who has been nearly thirty years in the active exercise of the profession. P: ...The truth is that for the last twenty years I have been so absorbed in medical practice, that I have neither found leisure nor inclination to inquire into the improvements of medical education..." "A: ...I am by no means satisfied that our system of teaching has been improved. ...among our Metropolitan lecturers, may be ranked some of the first philo-

sophers of the age, but there are many competitors, some of whom...have introduced a system of "grinding" or "cramming" .. which allures pupils, from the assistance it affords them in passing an examination..." How little things have changed in 180 years!

The text is devoted to those aspects of chemistry that the author, in his many years of lecturing to medical students, has found to be most applicable to the practice of medicine. It covers in some 460 pages of small print, a wide range of topics including some, such as Gravitation and Cohesion, that would seem to be out of place in a modern course. But the author links these unlikely chemical topics to real chemical problems. Gravitation is really about weights and measures and includes a brief discussion of the difference between weight and mass. Under Cohesion the author treats of phenomena that depend on the state of subdivision of materials including pulverization, trituration, despumation (look it up!), and filtration.

I find very interesting the sections on chemical affinity, elective affinity, and the rather new "Daltonian doctrine, or atomic theory" which had only been announced about a decade earlier. Chemical affinity was a subject of great interest to eighteenth century chemists such as Torbern Bergman and Claude-Louis Berthollet. Bergman's affinity tables held the same place in many lecture halls of his period as periodic tables do today. Here is a simple experiment that Dr. Paris suggests: "Mix together equal weights of magnesia [MgO] and quicklime [CaO], in fine powder, and add diluted nitric acid. After some hours it will be found that a considerable amount of the lime has been dissolved, but that the whole of the magnesia has remained untouched.

Hence it is clear that nitric acid has a stronger attraction for lime, than for magnesia." I could not have predicted easily, from my general knowledge of chemistry, the result of that experiment. For muriatic acid [HCl] the order of decreasing affinities of bases is "Baryta, Potass, Soda, Lime, Ammonia, Magnesia." In fact the general subject of displacement reactions, as we would call them, seems to be of great importance to the medical chemist of the early nineteenth century, and Dr. Paris links the subject to the detection of poisons and proposes a kit for such tests.

Dr. Paris is quite up-to-date. He cites Berthollet on "the first distinct views of the relations of the force of affinity to quantity", views that were a forerunner of the Law of Mass Action which would be announced forty years later. He also cites the rebuttal of Berthollet's views by Sir. H. Davy, but has to admit that "excess in quantity of matter will compensate for deficiency of affinity" in some cases.

The text is illustrated by many wood engravings. For instance there is a clear depiction of the famous experiment of Galvani, in the chapter on electricity, in which a dissected pair of frog's legs are attached to separate plates of zinc and silver. When the plates are connected by a wire, the legs twitch. This experiment, celebrated at the end of the eighteenth century, led Volta early in the nineteenth, to develop the electric battery and initiate the field of electrochemistry.

I plan to return to further discussion of this book in my next column.

Part 2 of this article can be found on page 8

*ACS Cut and Paste
January/February 2006*

This Month in Chemical History - #2
Harold Goldwhite, California State University, Los Angeles
hgoldwh@calstatela.edu

Prepared for SCALACS, the Journal of the Southern California, Orange County, and San Gorgonio Sections of the American Chemical Society

Part 1 of this article can be found on page 7

In my last column I began to present a view of the chemistry of medical practice as presented in "The Elements of Medical Chemistry" by John Ayrton Paris M.D., F.R.S., F.L.S., Fellow of the Royal College of Physicians of London, published in New York in 1825. When this text was published Dalton's atomic theory, as first published by Thomas Thompson, was only a decade and a half old, and electrochemistry was only a decade older than that, but Paris, a really up-to-date author for his time, has much to say about both these concepts.

His chapter "On the Proportions in which Bodies Combine, and on the Atomic Theory" has sections on "the Daltonian doctrine, or atomic theory; On the weights of atoms; Chemical equivalents; Wollaston's logometric scale; Importance of the doctrine of definite proportion; and Practical application of the doctrine of equivalents." Of Dalton, Paris, quoting Thomas Thompson, says that he "deservedly enjoys the glory of having permanently established a theory...which...must be considered as the greatest step which Chemistry has yet made as a science." The explanation of the atomic theory which follows is clear and comprehensible – very much as you or I might give it before an elementary chemistry class – but it is noteworthy that Paris does not use the Daltonian symbols for the atoms of the elements, probably because his printer did not wish to make the expensive engravings that were required. Instead he uses abstract alphabetic letters like A and B in his

numerical examples. He notes that the basis of the atomic weight scale differs with different chemists: "Mr. Dalton has made election of Hydrogen for this purpose because it is the lightest of all known bodies,...on the other hand, Wollaston, Thomson, and Berzelius, have assumed Oxygen, from its almost universal relations to chemical matter [i.e. many more elements form oxides than hydrides] as the decimal unit (the first making it 10, the second 1, and the third 100." Paris skips lightly over the question that vexed chemists for the next 40 years, that is how is one to assign formulas to molecules. Though we are 14 years after Avogadro's hypothesis it was not to make much of an impact on most chemists until after 1860. He simply points out that Davy has not accepted the Daltonian doctrine; that Dalton assumes water to be made up of one atom of hydrogen and one atom of oxygen (by his rule of simplicity); that Davy supposes that equal measures of different gases contain equal numbers of atoms, from which it is concluded that water contains two atoms of hydrogen to one of oxygen. And that: "It is, however, quite indifferent which we adopt, a very simple process reconciles them." [!]

Wollaston's logometric scale, referred to above, was an ingenious contrivance developed by that distinguished scientist (one of my favorites of the early nineteenth century) to facilitate quantitative calculations in analytical chemistry. It is a slide rule on which are marked the chemical equivalents of many reagents, both elements and compounds., It proved to be so useful that it was produced commercially and sold to chemists not only in Europe but also in the United States in the first decades of the nineteenth century.

Finally, in concluding my discussion of this most interesting volume, let me

turn to the brief chapter on the then very new field of electrochemistry. After explaining the difference between static and galvanic electricity –or, as we might call it, voltaic electricity – Paris describes some fascinating experiments by Dr. W. Philip and other English physiologists in which the digestion of parsley by rabbits was found to be stimulated by the application of electric currents to certain stomach nerves. After describing a more practical battery than Volta's original pile, the author explains the laws of electrochemistry as deduced by Sir. H. Davy. The terms electro-negative and electro-positive, so familiar to all chemists these days, were still quite novel in 1825. Dr. Paris explains them clearly with reference to electrolysis experiments and even suggest the possibility of using electricity to dissolve calculi such as kidney- or gall-stones.

The study of old texts is recommended to all serious students of the history of chemistry. These books show the subjects and theories that were deemed of importance in their times, and give students a perspective on the chemists of former times that is hard to achieve even reading between the lines of histories of chemistry.

ACS Cut and Paste
January/February 2006

**Stay up-to-date on
all the happenings
of the Pittsburgh
Section ACS by
visiting the section's
website.**

**http://
membership.acs.org/P/Pitt**

Call for Nominations

The Society for Analytical Chemists of Pittsburgh is currently soliciting nominations for the 29th Annual Pittsburgh Analytical Chemistry Award, which will be presented at the 2007 Pittsburgh Conference. In addition to a cash award, travel costs to PITTCON® 2007 are also included. The award is presented in recognition of significant contributions to the field of analytical chemistry, including:

Introduction of a significant technique, theory, or instrument and Providing exceptional training, or a fertile environment for progress in analytical chemistry

To nominate a candidate for the 2007 Pittsburgh Analytical Chemistry Award, send a one-page letter to:

Patricia A. Bordell, Ph.D.
The Pittsburgh Analytical Chemistry Award
c/o The Society for Analytical Chemists of Pittsburgh
300 Penn Center Blvd.
Suite 332
Pittsburgh, PA 15235-5503

NOMINATION DEADLINE IS MARCH 23, 2006.

For more information, visit the SACP Website at www.sacp.org

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WPTAG Continued from page 6

meet the objectives and goals it set out to achieve in 1996 and its current officer and members are looking forward to another successful 10 years and are "enthusiastic about the future of WPTAG."

Highlights from 10 years of promoting the chemical technician profession

WPTAG's Past Chairs

1996 - Robert Zinkhan, Calgon Carbon Corp.
1997 & 1998 - V. Michael Mautino, Bayer Corp.
1999 - Brunette Richards, PPG Industries, Inc.
2000 - Jan Lindsay, Zinc Corp. of America
2001 - Justin Watson, Bayer Corp.
2002 - Julie Operchal / Alan Bushmire, Bayer Corp.
2003 - Alan Bushmire, Bayer Corp.
2004 - Amy Wylie, Bayer Corp.
2005 - Gerry Lewis, Bayer Corp. / Bernice Karp, LANXESS Corp.

WPTAG's Technician of the Year Recipients

1997 - Robert Morgan, PPG Industries, Inc.
1998 - Herbert Tillman, PPG Industries, Inc.
1999 - V. Michael Mautino, Bayer Corporation
2000 - Robert D. Miller, PPG Industries, Inc.
2001 - Edward Ladner, DOE/NETL (Also recipient of the 2002 National Chemical Technician Award)

2002 - 3-way tie: Carl Holsinger, Kevin Molyneaux, Bayer Corporation and George Sabulsky, PPG Industries, Inc.

2003 - Brian Wachtel, Bayer Corporation
2004 - Patti Wilson, Bayer MaterialScience LLC
2005 - Alan Bushmire, Bayer MaterialScience LLC

WPTAG's Awards

From the ACS/Division of Chemical Technicians, Inc. (TECH)
1997 - Most Innovative Technician Affiliate Group
1998 - Best Overall Technician Affiliate Group
1999 - Best Interaction with Local Section
2003 - Most Innovative Technician Affiliate Group
2004 - Most Innovative Technician Affiliate Group

Other awards - 2004 "Salutes to Excellence" from TECH "For support and contributions to the National Chemistry Week program."

WPTAG's Special Recognition Award Recipients

1999 - Dr. C. Gordon McCarty, Bayer Corporation
1999 - V. Michael Mautino, Bayer Corporation
2004 - Alan Bushmire, Bayer Corporation

Submitted by V. Michael Mautino

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Pittsburgh Area Calendar

March

- Fri. 10 **Western Pennsylvania Technician Affiliate Group 10th Anniversary Celebration**
Bidwell Training Center Auditorium
- 12-17 **Pitcon 2006 Foundations for Science**
Bidwell Training Center Auditorium

April

- Mon. 3 **Society for Analytical Chemists of Pittsburgh (SACP)**
Former Chairmen's Night
Duquesne University, Maurice Falk Hall
"Thinking Like Einstein"
Professor John D. Norton, Center for Philosophy of Science and Department of History and Philosophy of Science
- Wed. 12 **Tripartite Symposium**
Nanoscience From Research to Industry
Ashe Auditorium, Chevron Center, The University of Pittsburgh

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