

CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

December, 2008
Vol. 46, No. 3

Meeting Calendar

Dec. 4	Prof. Joseph Francisco Purdue University @ Xavier University
Jan. 14	Prof. Sara Risch Michigan State University @ Givaudan
Feb. 11	Chemist of the Year @ Miami University
Mar. 11	S. Corriher, Food Chemist Joint with Dayton section
Apr. 15	Education Awards Night @ NKU
May [?]	Party Night Riverboat or Reds game

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December Meeting: December 4, 2008 at Xavier University

*Sponsored by Xavier University,
Department of Chemistry*

Joint meeting with the National Organization of Black
Chemists and Chemical Engineers (NOBCChE)

Dinner Presentation:

“Achieving Diversity in the Sciences for the University of the 21st Century”

Professor Joseph S. Francisco

Depts. of Chemistry & Earth and Atmospheric Sciences
Purdue University
West Lafayette, Indiana

Abstract

There is the general recognition that the future success of the chemical enterprise will require the full participation of all demographic groups, but such participation has not been achieved. This talk will focus on the steps that Universities can take to achieve diversity in the sciences. Successful efforts to recruit and retain minorities at the undergraduate level, in graduate programs, and onto faculties will be discussed. There will also be a discussion of what is industry doing right in its recruitment and retention of minorities as lessons for universities in optimizing participation in the workforce on faculties.

THE CINTACS NEWSLETTER**Vol. 46, No. 3 December, 2008**

Editor.....Kevin Ashley
 Advertising.....Ed Hunter

CINTACS is published eight times a year (September through May; but no issue in November) by the Cincinnati Section of the American Chemical Society. The submission deadline will be approximately December 10 for the January 2009 issue. Electronic submission is strongly preferred. All materials should be sent to:

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From the Chair

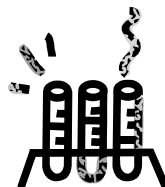
We welcome members of the National Organization of Black Chemists and Chemical Engineers (NOBCCChE) to our joint meeting December 4th at Xavier University. Professor Joseph S. Francisco, Distinguished Professor of Chemistry and Earth & Atmospheric Science, Purdue University will talk before dinner on, "Understanding Chemistry in the Atmosphere: New Problems and Challenges". Dr. Francisco will also give the feature talk, "Achieving Diversity in the Sciences for the University of the 21st Century" after dinner. Thanks to Xavier University and Dan McLoughlin for sponsoring this meeting and assisting with the arrangements.

Our September picnic, "Chemists Gone Wild" at Germania Park, was fun as usual. The Sections' October activities began with the Chemical Educator discussion group led by Linda Ford. A Science Café, organized by Susan Hershberger, was held at the Hofbrauhaus. Jeff Vogt of the Greater Cincinnati Water Works and Keith Zook of Procter and Gamble discussed local and global drinking water. Linda Ford and Ed Escudero held a Chemical Educators' Discussion Group sharing session September 30th at Summit Country Day School. On October 24th the Oesper Symposium was held at UC in honor of Alan G. Marshall of Florida State University. Thanks to UC for co-sponsoring the event and to Kim Carey, Heather Trenary, Jeff Seeley and Patrick Limbach for making it happen. National Chemistry Week was October 19th -25th. "Having a Ball with Chemistry" was celebrated at numerous Public Library sites and the Museum Center. A very special thanks to Keith Walters, Heather Bullen, Ed Escudero, Gloria Story and the many other volunteers.

At our January 16th meeting at Givaudan, Sara Risch (Michigan State University) will speak on the Chemistry of Taste & Aroma.

Please help me welcome Joe Francisco to the Cincinnati Section on December 4th.

-Roger Parker



December Monthly Meeting
Thursday, December 4, 2008
Conaton Board Room, Room 201 Schmidt Hall
Xavier University

*Joint meeting with The National Organization of Black
Chemists and Chemical Engineers (NOBCChE)*

Featured Speaker:

Professor Joseph S. Francisco, Purdue University



Program:

- 5:15-6:15 Discussion Group
- Joseph S. Francisco, "Understanding Chemistry in the Atmosphere: New Problems and Challenges". (Albers Hall Room 107)
- 5:30-7:00 Registration, Conaton Presidential Board Room, 2nd Floor, Schmidt Hall
- 6:00-7:00 Social, Conaton Presidential Board Room
- 7:00-8:00 Dinner, Conaton Presidential Board Room (\$25.00 or \$15.00 for students, emeritus, unemployed and new members)
- Menu: Pan Seared Chicken Breast with Hunter Sauce, Garden Greens Salad with Italian Vinaigrette, Wild Rice Pilaf, Fresh Seasonal Vegetable Medley, Fresh baked Bread, Chocolate Mousse with Raspberry Sauce, Whipped Cream and Chocolate Shavings, Coffee, Tea. Vegetarian entrée available upon request when making reservations.
- 8:00-9:00 Joseph S. Francisco, "Achieving Diversity in the Sciences for the University of the 21st Century"

Reservations:

The meeting reservation form is online at www.acscincinnati.org. As a last resort, you may send your reservations by email to parker.r@fuse.net or Roger Parker at 513.771.3613.

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About the speaker:

Joe Francisco discovered his love for chemistry in high school. As a senior, he developed a home-made gas chromatograph that took third place at the science fair, and he never turned back. Joe received his B.S. in chemistry from the University of Texas, Austin, and his Ph.D. from the Massachusetts Institute of Technology, and he completed his postdoctoral studies at Cambridge University (England). Joe did research in unraveling the molecular structure of compounds and in designing and synthesizing superconducting materials.

As chemistry was playing a note within Joe's life, he was singing a note of his own. Joe is an accomplished singer who performed with the Boston Symphony Orchestra from 1980 to 1983. Although he enjoyed performing there, his love of chemistry remained prominent in his life.

After graduate school, Joe became a professor of chemistry, first at Wayne State University in Detroit, then at Purdue University, where he now coordinates first-semester general chemistry courses for more than 2,000 students. Joe states, "Working with students can be challenging at times, but it is also rewarding and exciting." While Joe remains busy with his work, he is also a proud husband and father of three girls.

According to Joe, "Talking about research in chemistry is exciting and a way to communicate with people." He also values his membership with ACS. He is a member of the Task Force on Diversity and the Committee on Professional Training. He also attends the ACS national meetings and appreciates the networking opportunities they present.

Education

B.S., 1977, University of Texas at Austin
Ph.D., 1983, Massachusetts Institute of Technology
Postdoctoral Research Fellow, Cambridge University (England), 1983-1985
Provost Postdoctoral Fellow, Massachusetts Institute of Technology, 1985

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Temporary Reserved Parking Permit



Conaton Presidential Board Room
Second floor Schmidt Hall



Valid for American Chemical Society Meeting at Xavier University
F&W PARKING AREA

December 4, 2008

CARD MUST BE DISPLAYED ON PASSENGER SIDE OF DASHBOARD

(Continued from previous page)

Recognitions

Herbert Newby McCoy Award, 2007

President of the National Organization of Black Chemists and Chemical Engineers, 2005-2007

Alexandar von Humboldt Research Award for Senior U.S. Scientists, 2001

Fellow of the American Association for the Advancement of Science, 2001

Fellow of the American Physical Society, 1998

Guggenheim Fellowship , 1993

Research Associate, California Institute of Technology, 1991

Dreyfus Teacher-Scholar, 1990-95

Alfred P. Sloan Research Fellow, 1990-92

National Science Foundation Presidential Young Investigator, 1988-93

Provost Postdoctoral Fellow, Massachusetts Institute of Technology, 1985

Dr. Francisco is a candidate for President-Elect of the American Chemical Society.

Understanding Chemistry in the Atmosphere: New Problems and Challenges

Prof. Joseph S. Francisco, Purdue University

Abstract

Chemistry occurring in the atmosphere is responsible for local and regional air pollution and plays a significant role in global climate change. Understanding chemistry in the atmosphere at a molecular level is central to developing effective strategies that can remediate the environmental consequences. Atmospheric reactions that occur in the gas phase, and the various classes of these reactions that describe chemical processing in the atmosphere will be examined. A new class of reactions that involve radical-molecule association complexes will be discussed in particular their unique stability and photochemistry and new fundamental chemistry that are changing traditional perspectives of atmospheric reactions. This talk will also discuss current challenges in understanding reactions of gases at the interface between air and aerosols. Probing the kinetics and mechanisms at the molecular level of these processes will be discussed.



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Directions to December meeting at Xavier University:

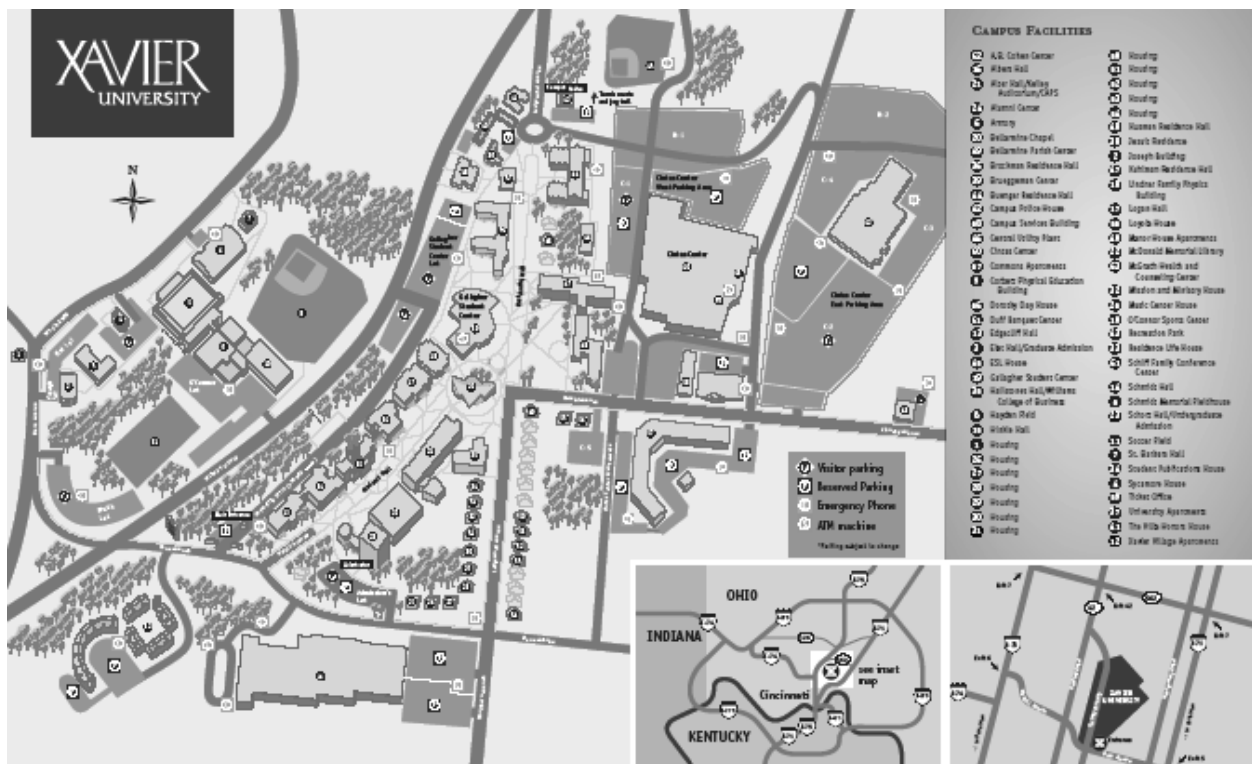
The Xavier University Conaton Presidential Board Room is located on the second floor of Schmidt Hall.

Parking is provided free **with the enclosed Parking Pass (bottom of p. 4)** at the Alumni Center on Dana Avenue across the street from Schmidt Hall.

I-71: Exit at Dana Avenue exit. Proceed west on Dana Avenue past Ledgewood Drive. As the road begins a slight turn, the Alumni Center parking area will be on the left before you reach Victory Parkway.

I-75: Exit at Mitchell Avenue. Proceed east on Mitchell Avenue, crossing over Reading Road. Continue to Dana Avenue and turn left. Just after crossing Victory Parkway, the entrance to Alumni Center parking area will be on the right.

Rt. 562: Exit the Norwood Lateral at Reading Road. Continue in the left lane of Reading Road to Victory Parkway. Merge left onto Victory Parkway at the light. Continue to Dana Avenue. Turn left onto Dana Avenue. The entrance to Alumni center parking area will be on the right in about half a block.



**LIGHTS!
CAMERA!
ACTION!**



On Wednesday, December 3rd, the chemical educators' discussion group will assemble in Fred Reuter's classroom at St. Xavier High School to learn about screencasting and vodcasting. Our presenter will be Keith Walters from Northern Kentucky University. Keith made a similar presentation at the 2008 BCCE. It created great excitement among the participants. Keith will share the applications of this technology that can enrich our classrooms. Directions to St. X (located at 600 W. North Bend Road) from any direction can be found at the school's website (www.stxavier.org). Click on "About Us". Once you arrive at the school, enter through the main entrance and go up to the third floor. Take two immediate rights and follow the hallway to room 3568. We will begin at 6:30 PM with refreshments, social time, and announcements. The program will run from 7 PM to 8:30 PM. Bring a new colleague. Please direct questions to Linda Ford at Linda.ford@7hills.org

ChemEd2009 will be held at Radford University in Virginia on August 2 to 6. Learn more about the conference and the presentation options at www.radford.edu/chemed2009/; presenter proposals are due by March 1, 2009. To get on the mailing list for updated conference information, send a message to chemed2009@radford.edu

Visit the Cincinnati Section online at:

www.acscincinnati.org

**Nominations for Cincinnati
Chemist of the Year and
Research Associate of the Year**

Recognize your colleagues and co-workers for their outstanding contributions to our field. Please submit a nomination for Cincinnati Chemist of the Year and Research Associate of the Year. The nomination deadline is **December 31**, so act fast!

The Cincinnati Chemist of Year must hold a doctorate and shall be a member of the section. Nomination requires two letters of recommendation and the nominee's Curriculum Vitae.

The Research Associate must be or shall have been a practitioner within the chemical discipline. Nomination requires a letter of recommendation; CV and additional documentation is optional.

Nomination materials should be sent to:

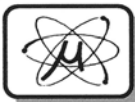
Jeff Seeley, Ph.D.

at

seeley.ja@pg.com

or

11511 Reed Hartman Hwy
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ACS Cincinnati Section Committee Chairs / Discussion Groups, 2008-2009

<u>Positions</u>	<u>Name/Address</u>	<u>Contact Information</u>
<i>Advertising</i>	Ed Hunter University of Cincinnati Department of Chemistry P.O. Box 210172 Cincinnati, OH 45221-0172	513-556-9215 (wk.) hunterje@email.uc.edu
<i>Analytical Chemistry Discussion Group</i>	Francisco Arias Procter & Gamble Pharmaceuticals 8700 Mason-Montgomery Road Cincinnati, OH 45040-8006	513-622-0415 (wk.) Arias.f@pg.com
<i>Awards</i>	Jeff Seeley Procter & Gamble, SWTC 11530 Reed Hartman Highway Cincinnati, OH 45241	513-626-1889 (wk.) seeley.ja@pg.com
<i>Biochemistry Discussion Group</i>	Diana McGill Northern Kentucky University Department of Chemistry Science Center 204G Highland Heights, KY 41099	859-572-5409 (wk.) mcgill@nku.edu
<i>Bylaws</i>	Ray D'Alonzo 5863 Samstone Ct. Cincinnati, OH 45242	513-793-7621 dalonzo.rp@gmail.com
<i>Career Services</i>	Joy Henderson Cargill Flavor Systems 10311 Chester Road Cincinnati, OH 45215	513-387-1709 (wk.) acscincinnati@yahoo.com
<i>Chemical Information Discussion Group</i>	Edlyn Simmons Procter & Gamble 5299 Spring Grove Ave., MS 507 Cincinnati, OH 45217	513-627-5664 (wk.) simmons.es@pg.com
<i>CINTACS Editor</i>	Kevin Ashley CDC/NIOSH 4676 Columbia Parkway, MS R-7 Cincinnati, OH 45226-1998	513-841-4402 (wk.) KAshley@cdc.gov
<i>Colloid Discussion Group</i>	Mike Weaver Procter & Gamble, MVIC 11810 E. Miami River Rd. Cincinnati, OH 45252	513-627-1133 (wk.) weaver.mr@pg.com

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<u>Positions</u>	<u>Name/Address</u>	<u>Contact Information</u>
<i>Computational Chemistry Discussion Group</i>	Bill Laiding Procter & Gamble P.O. Box 538707 Cincinnati, OH 45253-8707	513-627-2857 (wk.) laiding.wd@pg.com
<i>Education Grants</i>	Brian Berning Seven Hills School 5400 Red Bank Road Cincinnati, OH 45227	513-233-0080 (wk.) brian.berning@7hills.org
<i>Educators' Discussion Group</i>	Linda Ford Seven Hills School 5400 Red Bank Road Cincinnati, OH 45227	513-272-5360 lkford@fuse.net
<i>Elementary School Awards</i>	Jamie Heimkreiter Advanced Testing Laboratory 6954 Cornell Rd., Suite 200 Cincinnati, OH 45242	513-489-8447 (wk.) jheimkre@advancedtesting.net
<i>Givaudan Flavors Meeting</i>	Phil Christenson Givaudan Flavors 1199 Edison Dr. Cincinnati, OH 45216	513-948-4942 (wk.) phil.christenson@givaudan.com
<i>Government Relations Chair</i>	Joel Shulman Department of Chemistry University of Cincinnati Cincinnati, OH 45221-0172	513-556-9212 (wk.) joel.shulman@uc.edu
<i>Long-Range Planning</i>	Jeanette Krause Department of Chemistry University of Cincinnati P.O. Box 210172 Cincinnati, OH 45221	513-556-9212 jeanette.krause@uc.edu
<i>Meeting Site Coordinators</i>	Roger Parker & Elizabeth Reno P&G Health Care Research 8700 Mason Montgomery Road Mason, OH 45040-8006	513-771-3613 parker.r@fuse.net 513-622-1346 reno.ea@pg.com
<i>Meeting Sponsors</i>	Ted Logan 4485 Day Road Cincinnati, OH 45252-1803	513-385-8856 (hm.) tjlogancin@aol.com

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<u>Positions</u>	<u>Name/Address</u>	<u>Contact Information</u>
<i>Membership</i>	Gloria Story Procter & Gamble, MVIC 11810 E. Miami River Rd. Cincinnati, OH 45252	513-627-2840 (wk) story.gm@pg.com
<i>Miami U. Meeting</i>	James Hershberger Miami University Dept. of Chem. & Biochem. Oxford, OH 45056	513-727-3438 hershbjw@muohio.edu
<i>Minority Affairs</i>	Rolanda J. Johnson Procter & Gamble, MVIC 11810 E. Miami River Rd. Cincinnati, OH 45252	513-627-1079 (wk.) johnson.rj.2@pg.com
<i>National Chemistry Week / Earth Day</i>	Keith Walters & Heather Bullen Northern Kentucky University Dept. of Chemistry Highland Heights, KY 41099-1905	859-572-5315 walterske@nku.edu 859-572-5411 bullenh1@nku.edu
<i>Nominating Committee</i>	John Janisz P&G Pharmaceuticals 8700 Mason Montgomery Rd. Mason, OH 45040-8006	513-622-3803 januszjm@pg.com
<i>Northern Kentucky University Meeting</i>	Stefan Paula Northern Kentucky University Department of Chemistry Highland Heights, KY 41099-1905	859-572-6552 (wk.) paulas1@nku.edu
<i>Oesper Award Banquet & Poster Session Administrative Secretary</i>	Kim Carey University of Cincinnati Department of Chemistry P.O. Box 210172 Cincinnati, OH 45221-0172	513-556-0293 (wk.) kim.carey@uc.edu
<i>Oesper Award Poster Session</i>	Heather Trenary University of Cincinnati Department of Chemistry Cincinnati, OH 45221-0172	513-377-0881 (cell) 513-556-9304 (wk.) hrtrenary@gmail.com
<i>Oesper & Olympiad High School Awards</i>	John Williams Miami University 1601 Peck Blvd. Hamilton, OH 45011	513-785-3242 (wk.) williajp@muohio.edu

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<u>Positions</u>	<u>Name/Address</u>	<u>Contact Information</u>
<i>Organic Chemistry Discussion Group</i>	James Mack University of Cincinnati Department of Chemistry Cincinnati, OH 45221-0172	513-556-9249 (wk.) james.mack@uc.edu
<i>2007-2008 Program</i>	Roger Parker 480 Meadowcrest Rd. Cincinnati, OH 45231	513-771-3613 (hm.) parker.r@fuse.net
<i>Project SEED</i>	Suri Iyer University of Cincinnati Department of Chemistry P.O. Box 210172 Cincinnati, OH 45221-0172	513-556-9273 (wk.) suri.iyer@uc.edu
<i>Public & Media Relations; Public Outreach</i>	Kathy Gibboney Procter & Gamble 6100 Center Hill Ave. Cincinnati, OH 45215	513-634-6524 (wk.) gibboney.k@pg.com
<i>Retired Chemists</i>	Ralph Damico 655 Meadowcrest Cir. Cincinnati, OH 45231	513-772-0065 (hm.) rdamico@aol.com
<i>Section Historian</i>	William Jensen University of Cincinnati Department of Chemistry P.O. Box 210172 Cincinnati, OH 45221-0172	513-556-9308 (wk.) william.b.jensen@uc.edu
<i>Short Courses / Continuing Education</i>	Rick White Procter & Gamble 8700 Mason Montgomery Rd. Mason, OH 45040	513-622-1624 (wk.) white.dr.2@pg.com
<i>Web Meister</i>	Matthew Gardlik Ohio State University Department of Chemistry 100 W. 18th Ave. Columbus, OH 43210	513-607-5629 (cell) matt@mattgardlik.com webmaster@acscincinnati.org
<i>Women Chemists</i>	Tina Engel Procter & Gamble 8700 Mason Montgomery Rd. Mason, OH 45040	513-622-3723 (wk.) engel.tm@pg.com

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<u>Positions</u>	<u>Name/Address</u>	<u>Contact Information</u>
<i>Xavier University Meeting</i>	Dan McLoughlin Xavier University Department of Chemistry 3800 Victory Parkway Cincinnati, OH 45207-4221	513-745-3352 (wk.) mcloughlin@xu.edu
<i>Younger Chemists</i>	Nyote Oliver University of Cincinnati Department of Chemistry P.O. Box 210172 Cincinnati, OH 45221-0172	513-376-9225 (hm.) olivernj@uc.edu

SPONSORS FOR MONTHLY ACS CINCINNATI SECTION MEETINGS IN THE 2008-2009 PROGRAM YEAR

Each of these individuals, universities, companies, and departments listed below have agreed to sponsor one monthly meeting with a donation of \$1000 in cash or IN KIND services or facilities to defray the costs of holding a meeting:

September:	(no sponsor sought)
October:	Chemistry Department, University of Cincinnati
November:	(no meeting)
December:	Xavier University, Chemistry Department
January:	Givaudan Fragrances
February:	Procter & Gamble Company
March:	Advanced Testing Laboratory
April:	Girindus America, Inc.
May:	Milton Orchin

There may be shifts in Sponsor/Date assignments.

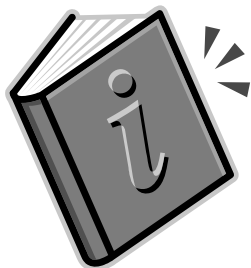
The Cincinnati Section and its members are extremely grateful to these individuals and companies and recognize that the quality of our programs is improved by this financial support.

Ted J. Logan, Chair
Committee on Solicitations and Sponsorships
tjlogancin@aol.com

Science.gov 5.0

Edlyn S. Simmons

Chair, Chemical Information Discussion Group



Some of the oldest and most valuable scientific databases are produced by United States government agencies. In recent years many of the databases have been made available without charge on the Internet, increasingly through a portal called Science.gov. The following announcement was posted on the Chemical Information discussion list CHMINF-L by Tim Byrne of the Department of Energy's Office of Scientific and Technical Information (OSTI):

Access to Science Information Expands with Science.gov 5.0 Launch 200 Million Pages of U.S. Government Science Resources Now Available on the Internet

The latest version of Science.gov <<http://www.science.gov/>> -Science.gov 5.0-was launched Sept. 15th, allowing users to search additional collections of valuable science resources; more easily target their searches; and readily find links to information on a variety of science topics. Science.gov is a free, integrated single-search gateway to reliable science and technology information from 17 organizations within 13 federal science agencies.

Science.gov 5.0 improves upon the previous version, Science.gov 4.0, by offering seven

new databases and portals which allow researchers access to over 200 million pages of scientific information.

New information available includes thousands of patents resulting from U.S. Department of Energy (DOE) research and development (DOepatents <<http://www.osti.gov/doepatents>>); documents and bibliographic citations of DOE accomplishments (DOE R&D Accomplishments Database <<http://www.osti.gov/accomplishments>>); millions of electronic scientific documents from around the world known as e-prints (Eprint Network <<http://www.osti.gov/eprints>>); and comprehensive and peer-reviewed toxicology data for thousands of chemicals (HSDB Hazardous Substances Databank <<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>>) as well as more than 3 million references to worldwide literature on the adverse effects of chemicals on living organisms (TOXLINE Toxicology Bibliographic Information <<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?TOXLINE>>).

New information also includes a digital archive of biomedical and life sciences journal literature (PubMed Central <<http://www.pubmedcentral.nih.gov/>>) and cancer-related information of all kinds for all audiences (Cancer.gov <<http://www.cancer.gov/>>), including support and treatment resources for patients, comprehensive descriptions of research programs and clinical trials for healthcare professionals and the general public, and funding opportunities for researchers.

Another key feature of Science.gov 5.0 is a "clustering" tool which helps target searches by grouping results by subtopics or dates. This technology was recently developed through a DOE Small Business Innovation Research (SBIR) Program award.

In addition to quadrupling the amount of searchable content and enhancing the search technology, Science.gov 5.0 now provides links

to related EurekaAlert! Science News <<http://www.eurekaalert.org/>> and Wikipedia, and provides the capability to easily download research results into personal files or citation software.

Science.gov is hosted by DOE's Office of Scientific and Technical Information (OSTI), within DOE's Office of Science. In addition to DOE, Science.gov is supported by contributing members of the Science.gov Alliance, including the Departments of Agriculture, Commerce, Defense, Education, Health and Human Services, and the Interior, the Environmental Protection Agency, the Government Printing Office, the Library of Congress, the National Aeronautics and Space Administration and the National Science Foundation, with support from the National Archives and Records Administration.

This year, the Chemical Information Discussion Group is once again offering hints and updates on chemical information resources available to most chemists and techniques for using them. Feedback, contributions, and requests for information you'd like to see in future columns are welcome.

If you have any comments, suggestions, or contributions, please email them to Edlyn Simmons at: simmons.es@pg.com.



UNDERGRADUATE AWARDS FOR ATTENDANCE AT NA- TIONAL ACS MEETING

Four awards of \$400 each will be funded to allow ACS Cincinnati Section undergraduate students to travel, attend, and present their research at a National ACS meeting.

1. The monies awarded are only to be used to attend the spring National Meeting of the American Chemical Society.
2. Only undergraduate students may be funded. In order to receive funding the undergraduate student must be the presenting author of a poster or oral presentation.
3. The deadline for applications for the award is December 31, 2008.
4. The application must contain a copy of the abstract of the presentation; the signature of the student; the signature of the research mentor; and the signature of the chemistry department chair. A letter of recommendation from the research mentor must also accompany the application.
5. No department may submit more than four individual applications.
6. The Educational Grants committee will evaluate the applications and select the award recipients.
7. The students receiving awards will acknowledge the assistance of the Cincinnati Section of the American Chemical Society in their presentation.

Applications for the Award should be sent to:

Cincinnati Section American Chemical Society
Education Grants Committee
Xavier University
Department of Chemistry
3800 Victory Parkway
Cincinnati, Ohio 45207-4221

A Nobel Anniversary

The 120th Anniversary of the Birth of Sir C. V. Raman

Chandrasekhara Venkata Raman was born November 7, 1888. He was awarded the Nobel Prize in Physics in 1930 for his 1928 discovery of what is now referred to as the *Raman Effect*, the inelastic scattering of light by matter. An explosion of interest followed — within twelve years of discovery, 1800 scientific papers were produced in the field of what is now known as Raman spectroscopy.

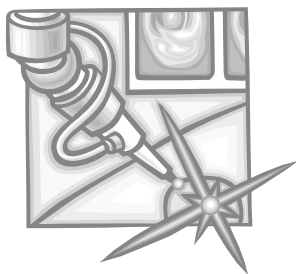


As the most prominent Indian scientist and the first Asian to receive a Nobel Prize, Raman assumed the forefront of Indian physics. He founded the *Indian Journal of Physics* and established the Indian Academy of Sciences in 1934.

Source: www.nndb.com/people/724/000099427/

Some Applications of Raman Spectroscopy:

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Gemstone verification



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- New Dimensions in Multidimensional Separations
- Young Investigator Award from Subdivision on Chromatography and Separation Chemistry
- Pressurized Fluids in Separations Technology

ORGANIZED CONTRIBUTED SESSIONS

- Validation of Bioanalytical Methods: Addressing matrix effects, ion suppression and ISR (incurred sample reanalysis)
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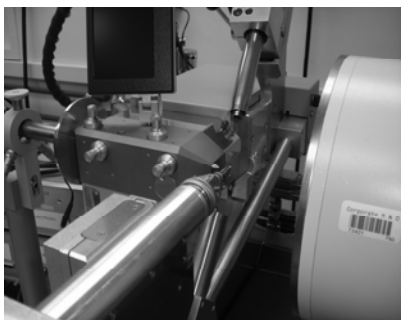
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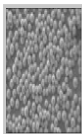


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