

CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

October, 2002
Vol. 40, No. 2

Calendar

Friday, October 25	Oesper Award at U. of Cincinnati
Wednesday, December 11	Dr. Harold Schueler at Xavier University
Thursday, Jan. 16, 2003	Dr. Steven D. Ittel at P&G HCRC
Wednesday, February 12	Dr. Paul Lahti at Vernon Manor
Wednesday, March 12	Cincinnati Chemist at Givaudan
Wednesday, April 9	Mr. Frederick Wallace at Northern Kentucky
Friday, May 16	Party Night! Robert Mondavi

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The 2002 Oesper Banquet and October Monthly Meeting

Friday, Oct. 25, 2002

co-sponsored by the
Department of Chemistry, University of Cincinnati

honoring

Professor Royce W. Murray
University of North Carolina, Chapel Hill

With featured after-dinner speaker:

Professor Richard Zare
Stanford University

"Hadamard Transform Time-Of-Flight Mass Spectrometry"
(see page 4 for abstract)

About the Awardee

Royce W. Murray was educated at Birmingham Southern College (B.S., '57) and Northwestern University (Ph.D., analytical chemistry, '60), joined the University of North Carolina faculty in

(Continued on page 5)

About the Speaker

Richard N. Zare, who is the Marguerite Blake Wilbur Professor in Natural Science at Stanford University, was born on

(Continued on page 4)

THE CINTACS NEWSLETTER**Vol. 40, No. 2 October, 2002**Editor.....Bruce S. Ault
Advertising.....Ed Hunter

CINTACS is published nine times a year (September through May) by the Cincinnati Section of the American Chemical Society. The submission deadline will be approximately October 19 for the December, 2002 issue. Electronic submission is strongly preferred, except for original photos. All materials should be sent to:

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From the Chair

For the past 20+ years, every October, I look forward to the Oesper Symposium, and this year is no different. The banquet will be held on the evening of Friday, October 25, and the symposium will be all day Saturday, October 26. We have a great group of speakers and an excellent Oesper Award winner in Royce Murray. (I first met Royce a few years ago when I was a post-doc at UNC.) I would like to thank Bill Heineman and Kim Carey for all the work they have done for this banquet and symposium.

There will be no discussion groups during the October meeting. Instead, we will have the Cincinnati Section's annual poster session. I urge all post-docs, graduate students, and undergraduate students to present your research at this session. Poster information should be forwarded electronically to Jennifer Hodges-Thomas at UC. Her address is HODGESJR@EMAIL.UC.EDU. The poster board size is 3 X 3. More information may be obtained from the Section's web site.

In the next issue of Cintacs, you will find a list containing the chair for each of the committees that helps keep the Section going. I would like to thank each and every one of these individuals for volunteering their time to help. The Section and I greatly appreciate it. If you would like to serve on any of these committees, please contact the chair of that committee.

October is also the time for National Chemistry Week with the first event on Sunday, October 20 at the Museum Center. I hope each of you can participate and get out the word about these wonderful events. Maybe there is some child out there whom we can convince to become a chemist. If you can help with NCW, please contact Gloria Story at P&G.

As you will read in this issue of Cintacs, the Cincinnati Section is the recipient of a large number of ACS Awards. I congratulate all those who made this possible. Speaking of awards, Jim Hershberger from Miami is in charge of the Section's Award Committee. If you would like to nominate some one for Chemist of the Year, Technician of the Year, or for the Service Award, please contact Jim. He will need a letter of nomination and any supporting documentation.

Finally, because the Oesper Banquet is in late October and because of Thanksgiving, there will be no November meeting. The next meeting will be on December 11 at Xavier. At that meeting there will be an Analytical and Colloid Discussion Group, a Resume Preparation Workshop, and a Board Meeting. The after-dinner talk will deal with forensic chemistry.

Allan Pinhas, Chair
Cincinnati Section, ACS

October Monthly Meeting

The 2002 Ralph and Helen Oesper Banquet and Poster Session

honoring
Royce W. Murray
University of North Carolina at Chapel Hill

Friday, October 25, 2002
University of Cincinnati Faculty Club

Program

5:30-7:00 p.m. Local Cincinnati Poster Session/Social Hour, including complimentary snacks

7:00 p.m. Oesper Banquet (dinner includes your choice of 1) Chicken with mushrooms, scallions and tomatoes in Madeira Sauce; 2) Roast pork loin with Jardiniere Sauce; or 3) Grilled marinated portobello mushrooms with pesto angel hair primavera. \$26.00 (\$13.00 for students, emeritus, unemployed and new members)

Presentation of the 2002 Oesper Award to Professor Royce Murray

After-dinner speaker, Professor Richard N. Zare
"Hadamard Transform Time-Of-Flight Mass Spectrometry"

Dinner Reservations: Send your reservations to Kim.Carey@uc.edu <Kim.Carey@uc.edu>. If absolutely impossible to make reservations via the internet, telephone 513-556-0293. Deadline for reservations is Monday, October 21, 2002. (It will save a lot of trouble if you use e-mail, but we don't want to discourage those who like the "olde fashioned" means of making reservations). Include your name, affiliation, and state if you're in one of the 1/2 price categories. As a reminder, if you decide you must miss a meeting after you have made reservations, please call to cancel. If you do not cancel, the Section will have to charge you because it will have been charged by the University.

Directions: If you approach via **I-75**, take the Hopple Street exit and turn left at the light. You will pass over the highway. At the next light, go "straight" (straight here is actually about a 45 degree turn to the left). You are now on Martin Luther King Drive. Continue up King to the 4th traffic light. You will reach the first one quickly, the second one about 1/2 mile after that, the third (Clifton Ave.) after going up a long hill, and the 4th as you continue eastward with the campus on your right. Turn right at this 4th traffic light onto campus, and then right into the parking garage.

If you approach Cincinnati coming **south on I-71**, get off at the Taft Street exit (exit 3). After the light at the end of the off-ramp, continue straight (west) on Taft for about 1.3 miles. At this time, Hughes High School is directly in front of you, and you must turn. Turn right onto Clifton Avenue. The University is now on your right side. Continue on Clifton to King; turn right (eastbound) on King and follow to the first light. Turn right onto campus, and then right into the library garage.

(Continued from page 1)

November 19, 1939 in Cleveland, Ohio, and graduated from Harvard University with a B.A. degree in chemistry and physics in 1961 and a Ph.D. in chemical physics in 1964. Why he spent so little time learning any analytical



chemistry is not considered to be a proper topic for conversation -- but it is known that his entire thesis was devoid of any mention of this research area.

In 1965 he became an assistant professor in the Department of Chemistry at the Massachusetts Institute of Technology, but lasted only nine months there before moving to the University of Colorado in 1966. He remained there somewhat longer -- until 1969 -- holding joint appointments in the departments of chemistry and physics, each department regarding him as a spy of the other department. In 1969 he was appointed to a full professorship in the chemistry department at Columbia University, becoming the Higgins Professor of Natural Science in 1975. In 1977 he moved to Stanford University.

It was while he was using laser induced fluorescence to study reaction dynamics that someone wandered by accident into a lecture he was presenting to the PCHEM section of an ACS meeting and challenged him, asking him if his laser stuff was so good, why had he done nothing to apply it to useful problems. Spurred by this challenge, Professor Zare has become the only faculty member at Stanford University who admits to trying to be an analytical chemist. In this pursuit he has become well known for his efforts to push instrumentation to examine ever smaller concentrations in ever tinier samples volumes, which has caused some of his colleagues to remark that soon he will know everything about nothing.

Hadamard Transform Time-Of-Flight Mass Spectrometry

Richard N. Zare

abstract

Time-of-flight mass spectrometry (TOF MS) is the least expensive and most portable form of mass spectrometry. In addition, TOF MS is able to record the mass spectrum of an entire mass range without scanning. This attribute is fully exploited when TOF MS is coupled to some fast separation technique, such as high-performance liquid chromatography (HPLC) or capillary electrophoresis (CE), in which transient signals are generated. A drawback of the method is the inherently low duty cycle that results when coupling TOF MS, which is start/stop by nature, with a continuous ion stream, such as from electrospray ionization (ESI). This problem has been overcome to some extent by orthogonal injection schemes but on-axis coupling seems to be problematic. Using a new on-axis scheme based on on/off modulation of the ion stream we have achieved a 50 percent duty cycle. In this multiplexing scheme, called Hadamard transform time-of-flight mass spectrometry (HT TOF MS), a continuous ion beam is rapidly modulated ($\gg 10$ MHz) with a pseudo-random sequence of "on" and "off" pulses applied just prior to the flight path to the ion detector. Our modulation device uses a gate to pass or not to pass ions in a continuous stream. It is called a Bradbury-Nielson gate. As a result, there is a series of ion packets leaving the gate, each spreading spatially in time because of the different masses. Indeed, the ions from one packet overlap those from packets before and after it. These interleaved packets appear to the ion detector as "noise," but it is not noise but rather a sequence of overlapping time-of-flight spectra. These time-of-flight spectra are recovered using a demodulation procedure that employs something (an inverse Hadamard transform) that undoes the original modulation. The modulation-demodulation procedure results in the usual gains in signal-to-noise ratio found in any multiplexing scheme, such as in Fourier transform IR. Moreover, the demodulation procedure can be done in milliseconds on a computer so to the operator the results appear just as if a time-of-flight spectrum

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1960 and became Kenan Professor of Chemistry in 1980. He has served as Chemistry Department Chairman, as Vice Chair and as Chair of the Basic and Applied Natural Sciences Division and Chair of the Curriculum in Applied and Materials Sciences. Murray has been colleague to over 100 graduate and post-graduate students, with whom he has published about 320 papers. His contributions have been recognized with Sloan and Guggenheim Fellowships, the Carl Wagner Memorial Award and the Olin Palladium Medal (The Electrochemical Society), the Charles N. Reilley Award (Society for Electroanalytical Chemistry), The Electrochemistry Group Medal of the Royal Society of Chemistry, and the American Chemical Society Fisher Award in Analytical Chemistry and Division of Analytical Chemistry Electrochemistry Award.



Murray is an elected member of National Academy of Sciences and a Fellow of the American Academy of Arts and Sciences and the American Association for the Advancement of Science. Murray is a Life Member and a Fellow of the Electrochemical Society, Life Member and Past-President of the Society for Electroanalytical Chemistry, and a member of the American Chemical Society. He has since 1991 been Editor-in-Chief of the journal *Analytical Chemistry*, which is the leading journal in the discipline. He has served as a member and Co-chair of the Board of Chemical Sciences and Technology, of the National Research Council.

Murray's research interests include electroanalytical methods, the molecular design of electrode surfaces and metal clusters, electrochemically reactive semi-solid media, mass transport and electron transfer dynamics, electrocatalysis, and voltammetry in extreme media. The typical focus is the invention of measurement tools and strategies, and associated design of new molecular assemblies that give access to previously inaccessible and interesting chemical phenomena.

(Continued from page 4)

was taken. Conventional orthogonal extraction TOF MS has a duty cycle of 1 - 15 percent and often cannot respond with sufficient rapidity that it can capture peaks coming off a separation, whether that be by gas chromatography or electrospray ionization interfaced to some liquid separation scheme such as HPLC, or CE, or CEC. The device we have built has a duty cycle of 50 percent and can take mass spectra at a rate of more than 250 scans per second. Its possible use in proteomics will be described.

ChemLuminary Awards

The Cincinnati Section won three **ChemLuminary Awards** at the ceremony on August 20 at the Boston national meeting. The award categories are:

1. Local Section Public Relations (Medium Large to Very Large) given by the Committee of Public Relations and Communications
2. Best Activity or Program in a Local Section Stimulating Membership Involvement given by the Local Section Activities Committee
3. Most Effective Use of Public Relations/Media given by the National Chemistry Week Task Force

We were a finalist for the Outstanding Performance by Local Section Large Size Category Award, where the award went to the Detroit local section. The competition was very strong for all awards.

Winning three of these prestigious and highly competitive awards from four nominations is a phenomenal achievement. No other Section garnered this many unshared awards. It speaks to the quality of our programs as well as to the nomination documents. The Section is indebted to those who devoted their time and talents to these programs and nominations. They have greatly enhanced the Section's image and status.

ChemLuminary Awards were established in 1999 by ACS to honor the efforts of volunteer members and to recognize participants in local Sections and Divisions whose efforts have helped to achieve excellence. There were 45 awards given this year in a packed house ceremony where we received the trophies on the stage. Our trophies will be displayed at future meetings.

The Department of Chemistry at the University of Cincinnati*presents***The 2002 Ralph and Helen Oesper Symposium***honoring*

Professor Royce Murray
Kenan Professor of Chemistry
University of North Carolina, Chapel Hill

Saturday, Oct. 26, 2002
University of Cincinnati
502 Rieveschl Hall

- 9:00 a.m. **Professor Marshall Wilson**, Head, Department of Chemistry
Welcome and Introductory Remarks
- 9:10 **Professor Robert Corn**, University of Wisconsin-Madison
“SPR Imaging Measurements of DNA and Protein Microarrays on Chemically Modified Gold Surfaces”
- Morning Break (9:55-10:10)**
- 10:15 **Professor Norman Dovichi**, University of Washington
“The Protein Landscape of a Single Cell”
- 11:00 **Professor Catherine Fenselau**, University of Maryland Baltimore County
“Proteomics: New Methods and Applications”
- Lunch (11:45-1:10)** UC, Faculty Club (Buffet \$14; Students \$7)
Reservations are required: Please send an email to: Kim.Carey@uc.edu
- 1:15 p.m. **Dr. J. Michael Ramsey**, Oak Ridge National Laboratory
“Micro- and Nanofluidic Devices for Chemical and Biochemical Experimentation”
- 2:00 **Professor R. Mark Wightman**, University of North Carolina at Chapel Hill
“Monitoring Dopamine in the Brain with Microelectrodes During Behavior”
- Afternoon Break (2:45 – 3:10 PM)
- 3:15 **Professor Royce W. Murray**, University of North Carolina at Chapel Hill
“Monolayer Protected Metal Nanoparticles are Interesting Molecules”

Linda Ford wins National ACS Teaching Award!

Linda Ford is the winner of the James Bryant Conant Award in High School Chemistry Teaching. This award, sponsored by the Albemarle Corporation, recognizes outstanding teachers of high school chemistry in the United States, its possessions or territories, at both the regional and national levels. Ms. Ford was a winner of the Section's teaching award in 1997, the Central Region award in 2000, and now, the National award in 2003!

This award carries with it a certificate, a \$5,000 honorarium, and a trip for two to the Spring meeting in New Orleans, where Linda will give a talk at the educator's session.

All competitors for the National award have received recognition as Regional award winners, so the competition is "tough". Judges consider

- 1) the quality of the candidate's teaching;
- 2) the candidate's ability to challenge and inspire students;
- 3) extracurricular work in chemistry by the candidate, including science fairs, science clubs, and activities that stimulate the interest of young people in chemistry and related sciences; and
- 4) a willingness to keep up-to-date in the field, as

evidenced by pursuit of a higher degree in chemistry, enrollment in refresher courses and summer institutions, regular attendance at scientific meetings, and other means of self-improvement.

Inasmuch as Ms. Ford was chosen for this award, it is obvious that she has high qualifications in all four of the above categories. Let's all congratulate Linda at our next meeting!

Hank Greeb
Trustee

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EDUCATIONAL GRANTS

The Cincinnati Section of the American Chemical Society has funds available for the purpose of improving chemical education in the geographic area served by the local section (OH: Adams, Brown, Butler, Clermont, Clinton, Hamilton, Highland and Warren counties; KY: Boone, Campbell, and Kenton counties; IN: Dearborn and Ohio counties). The Educational Grants Committee was established to make recommendations to the Cincinnati Section Board of Directors for the disbursement of these funds.

The committee hereby invites applications for these grants from all members (teachers, students, industrial chemists, etc.) of the chemical community in the service area of the section. Applications will be accepted and reviewed three times during the year according to the following schedule.

Review Month	Application Deadline	Notification Date
November	November 1, 2002	December 1, 2002
January	January 15, 2003	February 15, 2003
May	May 1, 2003	May 30, 2003

Grants will be awarded for such activities as attending educational workshops, participation in summer research programs, innovative education programs, instructional equipment, etc. Proposals, which incorporate the use of funds from other agencies or corporations, including the agency, or corporation, with which the applicant is affiliated, will be given preference in the selection process. Funds will generally not be awarded for the purchase of common supplies or chemicals. However, any application, which meets the basic criteria for which the fund was created, will be given serious consideration. Grants will be, in most cases, limited to \$1,500; exceptional proposals will be considered for larger amounts. No school or organization will be allowed to receive more than one (1) award per calendar year. Within one year from the time the grant is awarded, a report describing the use of the funds and the impact that the project had is expected to have on improving chemical education is to be forwarded to the committee chairperson.

For further information, please contact:

Linda Ford
Seven Hills School
5400 Red Bank Road
Cincinnati, Ohio 45227
Phone: 513-272-5360
FAX: 513-271-2471
E-mail: linda.ford@7hills.org

See the following page for the official application form for the educational grants.

**The Cincinnati Section of The American Chemical Society
EDUCATIONAL GRANT APPLICATION**

DATE: _____

Name: _____

Organization: _____

Department: _____

Address of Organization: _____

County: _____ State: _____ Zip Code: _____

Name and Title of Official Certifying Organizational Compliance with the Grant:

Signature _____

Name/Title (print or type) _____

ACS Member or Affiliate? _____

How many individuals will benefit from this grant if your proposal is funded? _____

Grant criteria: Funds are to be used to improve chemical education in the area served by the Cincinnati Section of the American Chemical Society.

Grant Proposal: The proposal should contain 300-500 words, double-spaced on official letterhead. It should describe the objective(s) of the project, how the project will be carried out, how the project would improve chemical education, how the program fits into the education program (if the applicant is from a school) and who would benefit. Also, the proposal should contain a detailed budget that outlines expenditures, the amount being requested from the Educational Grant and the amount being requested from other sources.

Send five (5) copies of the application and the proposal to:

Linda Ford	Phone: 513-272-5360
Seven Hills School	FAX: 513-271-2471
5400 Red Bank Road	E-mail: linda.ford@7hills.org
Cincinnati, Ohio 45227	

Reports: Grant recipients are required to submit a report to the Committee within one year from the time of notification of the award. The report will include an outline of how the funds were used, what had been purchased, if anything, with the funds and what benefits have been derived thus far from the use of the funds.

Acknowledgment: It is requested that the major instruments purchased with the use of these funds be tagged with the following acknowledgment: "This equipment was purchased (in part) with an Educational Grant from the Cincinnati Section of the American Chemical Society."

Attention Teachers!

Learn How to Help Student Writing Skills at November Meeting

The Educators' Discussion Group will gather in Linda Ford's classroom at Seven Hills Upper School on Monday, November 11, at 6:30 PM. Linda and her teaching mate, Brian Berning, will conduct tours of the beautiful laboratories in the brand-new building. Then at 7 PM, Brian will introduce the teachers to an exciting internet-based activity called **Calibrated Peer Review (CPR)**. This has nothing to do with first aid but it may resuscitate your efforts to improve the writing skills of your students! During a CPR activity, students go through a sequence of events that include researching an assigned topic on the Internet, writing an essay on that topic, posting the essay on the web to be read and evaluated by their peers and themselves, and finally examining the evaluations on their writing. The teacher has control over the choice of assignment, the timing of the individual events, the length of the essay, and the final appraisal of the students' work. WOW! This is an absolutely swell way to challenge your students to improve their technical writing skills. The bonus is that there are several topics available in the CPR library that fit very nicely into the high school chemistry curriculum. College instructors are always welcome to our discussion group, and this topic might fit their needs well. In order to provide a laptop for the use of each attendee, Linda and Brian will need a head count. RSVP your intention to attend by firing a quick e-mail to them. (Linda.ford@7hills.org or brian.berning@7hills.org)

Directions to Seven Hills: From either direction on Interstate 71, exit at Red Bank Road (between Ridge and Kenwood). This exit allows you to proceed only to the east. Travel to the first traffic light and take a right on to Duck Creek. As you proceed up the hill, travel about one city block, and take the first right on to Old Red Bank Road. Travel a very short distance and you will see the new building on your right. Turn into the first parking lot that you see just before the building itself. This lot is adjacent to the tennis courts. As you look toward the building, you will see the lower level of science classrooms. Each room has an outside entrance. Linda's room (#110) will be well lit so that you can find your way to the meeting easily. Light refreshments will be served.

Highlights and News Items from the Boston ACS Meeting

- 1) The Board will now hold regular open meetings on Sunday mornings at all National ACS meetings.
- 2) John Crum, Executive Director of ACS, is recovering from heart surgery. He will retire 12/31/03, and a search for a replacement will soon begin.
- 3) Candidates for the next ACS President are Charles Casey, Ann Nalley, and Alvin Kwiram. The election will be this Fall.
- 4) Attendance in Boston was about 17,000, far above the projected 8000. A small meeting had been predicted due to 911 and the sluggish economy. The surplus means more revenue for ACS, but they had to scramble to get more personnel on board.
- 5) Several years ago the ACS set aside \$5 million for 1:1 matching gifts. This very popular program has now exhausted the funds, but the Board has extended the program to 12/31/02 while it seeks additional funds.
- 6) At the Committee on Minority Affairs luncheon, our own Ron Webb and Diane Schmidt were called to the podium by ACS President Eli Pearce to receive thanks and recognition for P&G's recent donation of \$100,000 to the Minority Scholars Program. This will provide 10 scholarships of \$2500 each, for 10 years, for minorities.
- 7) ACS derives much of its income from investments. Like all of us, these are hurting from the present economy and market situation. Depending on who you talk to, we will be in the red to the tune of \$1-4 million in the next year, triggering some severe belt-tightening.
- 8) The world-wide chemical products industry is now valued at \$1.4 T. There is a huge shift going on, from petroleum feedstocks and processes to renewable resources via biotechnology. It is estimated that in 10 years, \$140B of this total will be derived from biotechnology processes. This will have many implications

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Chemical Information Update: "What Every Chemist Should Know about Patents"

Edlyn Simmons
Chair, Chemical Information Discussion Group,
Member, ACS Joint Board-Council Committee on Patents and
Related Matters

The September, 2002, issue of CINTACS carried an article on "The Role of Patents in Research," a short summary of the value of patent information with the location of some free patent databases on the Internet. Patents are important in research for the basic reason that a large and growing proportion of chemical information is published in patents. In 2001, the Chemical Abstracts Service published 755,915, abstracts, 144,498, of which were abstracts of patents. That's over 19% of the documents abstracted. Furthermore, much of the information in patents is unique: most information in patents is never republished in a scientific journal. (Estimates of the unique information in the patent literature range from 70-90%, but there is no way to confirm those estimates).

If the article piqued your interest, you may want to know more about patents and patent law. After all, patents are legal documents as well as records of scientific research, and the procedures leading up to the publication of patent documents are radically different from those for the publication of articles in refereed journals. The American Chemical Society Joint Board-Council Committee on Patents and Related Matters has created a booklet called "What Every Chemist Should Know about Patents." The 3rd edition was published earlier this year. The electronic version is posted to the website of the ACS Office of Legislative and Government Affairs (OLGA). The OLGA webmaster has posted the primer as three different files. The main part of the document is at <http://www.chemistry.org/portal/resources?id=1b41692a6cf811d6f8dd6ed9fe800100>. Appendix I, a sample US patent, is at <http://www.acs.org/portal/resources?id=4d315f8a6cf811d6f8dd6ed9fe800100>. Appendix

(Continued on page 12)

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including a changed workforce, lower cost raw materials, and the political implications stemming from lesser dependence on petroleum.

9) A booklet full of useful and interesting information has just appeared:

"Graduate Education in Chemistry. The ACS Committee on Professional Training. Survey on Programs and Participants, ACS, 2002." Chapters include "Survey of PhD Programs in Chemistry", "The Masters Degree in Chemistry", "Survey of PhD Recipients in Chemistry". Copies may be obtained by e-mail : cpt@acs.org.

10) Within a month, IBM will have a software system on the market to achieve conversion of spoken English to Chinese (Mandarin) through a voice recognition program, and vice versa (Chinese to English). Translation of most languages via similar systems is just around the corner.

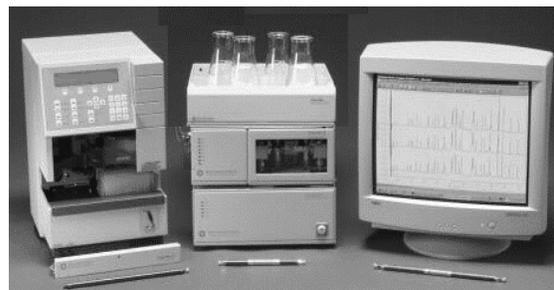


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II, a sample US published patent application is at <http://www.acs.org/portal/resources?id=7ec9017e6cf811d6f8dd6ed9fe800100>.

This booklet covers the basics of patent law, with a US slant. Although it was written by chemists, for chemists, it is really for anyone working in industry or academia. Downloading for non-commercial use is encouraged. A printed version of the booklet will be available at a later date.

**Please Support
CINTACS Advertisers!**

Call for Posters!

The annual poster session for the Cincinnati Section of the American Chemical Society will take place prior to the Oesper Award Banquet on Friday, Oct. 25, 2002 (see page 3 for meeting details). All members of the section are welcome to present posters at this session (within space limitations). Members interested in presenting a poster should submit the title to Jeni Hodges-Thomas, at hodgesjr@email.uc.edu no later than Friday, October 18, for inclusion in the program. Please visit the Oesper Banquet website at: http://www.che.uc.edu/grad_program/oesper_banquet.htm for additional details and abstract specifications. Questions should also be directed to Jeni. Please note: *you do not need to attend the banquet in order to present a poster.*

Award Nominations Solicited

Cincinnati Chemist of the Year

The Section Awards Committee requests nominations for the 2003 Cincinnati Chemist of the Year. This award, given annually since 1950, recognizes professional accomplishments of a member. The 2003 Chemist of the Year will be the featured speaker at the February meeting.

Deadline for nominations is December 11, 2002 (the date of the December meeting).

Cincinnati Research Assistant of the Year

The Section Awards Committee requests nominations for the 2003 Cincinnati Research Assistant/Chemical Technician of the Year. This award, given annually, recognizes job skills, safety, teamwork, leadership, publications and presentations, reliability, communications skills, and additional professional and community activities. A Chemical Technician/Research Assistant is defined as a person whose training includes successful completion of a two year post-high school chemistry curriculum or equivalent work in a Baccalaureate program, or equivalent knowledge gained by experience. The 2003 award will be presented at the March meeting. The winner will be the section's candidate for the National award.

Deadline for nominations is December 11, 2002 (the date of the December meeting).

Outstanding Teaching Awards

Do you know a teacher who inspires his/her students? Fills them with a curiosity about the world of science and chemistry? The Cincinnati Section of the American Chemical Society is looking for these people - and honors three each year.

The High School Chemistry Teacher of the year is awarded annually, to recognize accomplishments of those of us who teach chemistry at the secondary school level.

The Middle School/Junior High School Science Teacher of the Year is awarded annually to honor science teaching at this level.

The Elementary School Science Teacher of the Year is awarded for excellence in elementary teaching.

All three awards recognize teaching ability, enthusiasm, mentoring skills, and other leadership activities. Nominees need not be members of the American Chemical Society. Generally speaking, anyone teaching in these capacities within 35 mile radius of downtown Cincinnati is eligible. These awards will be given at the April Meeting.

Deadline for nominations is January 16, 2003 (at the meeting).

Nomination forms for each award may be requested from, and returned to:

Jim Hershberger	Ph 513-529-2441
Department of Chemistry	Fax 513-529-1675
Miami University	Hershbjw@muohio.edu
Oxford, OH 45056	

Meeting Notice

Combinatorial Chemistry and High Throughput Synthesis

Miami University and Wright State University will be co-sponsoring a meeting on Friday December 14 and Saturday December 15. Held at the Marcum Conference Center at Miami University, the Friday session will consist of a banquet and plenary lecture. Saturday will have poster sessions in the morning followed by talks through the afternoon. The general theme of the talk will relate to combinatorial chemistry and high throughput synthesis, but poster contribution are not restricted to this topic.

Overnight lodging is reserved for participants at the Marcum Center. It is hoped that this conference will be the first in a rotating local conference throughout the area. The speaker list and organizational details will be available in the November CINTACS. Contact Rich Taylor (taylorrt@muohio.edu) for further information or to be kept on a direct mailing list for the conference.

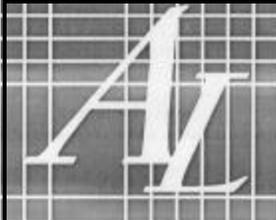
Career Services at ACS Regional Meetings

Visit the Career Resource Center at these ACS regional meetings for an array of professional development programs and services. Features may include an employment clearing house (RECH), career management workshops, one-on-one resume critiques.

Southwest Regional Meeting
November 3-6, Austin, TX

Southeast Regional Meeting
November 13-17, Charleston, SC

For more information, job seekers and employers may visit the ACS website www.chemistry.org/careers/calendar.html or call 1-800-227-5558 x6208.



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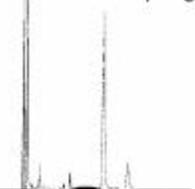
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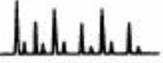


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