

CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

September, 2008
Vol. 46, No. 1

Meeting Calendar

Sept. 21	Family/Friends Picnic @ Germania Park
Oct. 19-25	National Chemistry Week "Having a Ball with Chemistry"
Oct. 24	Oesper Award Banquet & Symposium @ Univ. of Cincinnati
Dec. 4	J. Francisco, Purdue U. @ Xavier University
Jan. 14	@ Givaudan [TBD]
Feb. 11	Chemist of the Year @ Miami University
Mar. 11	Joint with Dayton [TBD]
Apr. 15	Education Awards Night @ NKU
May ?	Party Night Riverboat or Reds game

In this issue

September mtg. announcement	1
From the Chair	2
Oesper poster session invitation	3
Marshall to receive Oesper Award	3-4
Prof. Marshall's abstract	4
Kroto to speak at Oesper banquet	5
Nat'l Chemistry Week—Volunteers	5
D'Alonzo receives service award	6
Earth Day at Sawyer Point	6,11
ACS Cincinnati Section Officers	7-9
Call for section meeting sponsors	9
Chemists visit Senators' offices	10
Women in Science symposium	10
Science Café: drinking water	11

PLEASE join us for the Section's
first "meeting" of the 2008-2009 session:

**5th ANNUAL
FAMILY AND FRIENDS PICNIC
Chemists Gone Wild at Germania Park
Sunday, September 21, 2008, Noon-5 PM**

Activities and Entertainment will include a DJ, cornhole competition, and chemical demonstrations. Plus, you can find out about the section activities, committees, and discussion groups for the year.

Germania Park has a playground for children as well as playing field for various sports. The park is conveniently located in a scenic semi-rural setting and has a covered pavilion. The picnic is on rain or shine.

Board Meeting: Noon—1:00 PM: Officers are requested to attend!

Registration: 1:00- 2:00 pm

Food/Potluck: The section will provide grilled hot dogs, hamburgers, chicken, and bratwursts as well as condiments and drinks (beer, soft drinks, and juice boxes).

Attendees are cordially requested to bring food. Last names A – M please bring a side dish or salad for 6 and N-Z a dessert for 6.

Food will be served at 2 pm.

Cost: \$10 member individuals or \$15 members with family.
\$5 member retirees, first time non-members, K-12 teachers, and students or \$10 for same with family.

Reservations: The meeting reservation form is online at www.acscincinnati.org/acs. This is the best and easiest way to register.

(Continued on page 3)

THE CINTACS NEWSLETTER**Vol. 46, No. 1 September, 2008**Editor.....Kevin Ashley
Advertising.....Ed Hunter

CINTACS is published eight times a year (September through May) by the Cincinnati Section of the American Chemical Society. The submission deadline will be approximately September 10 for the October 2008 issue. Electronic submission is strongly preferred. All materials should be sent to:

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From the Chair

The first Cincinnati Section meetings of the 2008-2009 year will start Sunday September 21st with the 5th annual picnic at Germana Park, "Chemist's Gone Wild." This is a great opportunity to meet with family and friends and enjoy brats, beer, music, chemical demonstrations and liquid N₂ ice cream.

October 19-25 we will celebrate National Chemistry Week (NCW): "Having a Ball with Chemistry". I want to welcome Keith Walters and Heather Bullen of NKU as the Section's NCW Chairs.

The 2008 Oesper Banquet and Symposium at UC on October 24th will honor Professor Alan Marshall of Florida State University. Sir Harold Kroto, Nobel Laureate, will give the Oesper Banquet address. Besides Prof. Marshall's award address, other speakers at the Oesper symposium will include Profs. Hilikka Kenttamaa, Purdue University; Neil Kelleher, University of Illinois; Michael Bowers, University of California at Santa Barbara; Jack Beauchamp, California Institute of Technology; and Roman Zubarev, Uppsala University, Sweden.

The December 4th meeting at Xavier University will have Joseph S. Francisco, Purdue U. giving a technical presentation before dinner and a talk on Diversity in Chemistry/ Science in the evening.

The January 14th meeting at Givaudan is TBD. The Cincinnati Chemist of the Year Award will be presented on February 11th at Miami University Oxford. We are planning another joint meeting with the Dayton Section on March 11th (?); venue to be decided. It will be hard to top John Janusz's Chemistry of Beer program of last year.

Education Awards Night at Northern Kentucky University is tax day, April 15.

Party Night in May will either be a Riverboat Cruise or Red's Baseball. Please let me know what you prefer.

Congratulations to the section members involved in National Chemistry Week and CERMACS 2007, both programs have been selected as finalists for ChemLuminary Awards the August ACS meeting in Philadelphia.

I want to thank and congratulate John Janusz the officers and committee chairs for a great program last year.

I hope to see you at the September 21st picnic. I'll buy you a beer.

-Roger Parker

(Continued from page 1)

As a last resort, you may send your reservations by e-mail to Beth Reno at reno.ea@pg.com. If it is impossible to make your reservation via the internet or email, call Beth at 513-513-622-1346; leave name, affiliation, a contact phone number, and state if you are in one of the half price categories.

The deadline for registration is Wednesday, Sept. 17. When you register please indicate the number of adults and children attending.

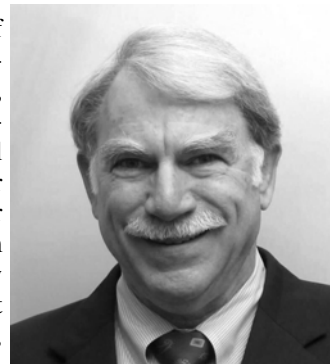
Directions to Germania Park, 3529 West. Kemper Road, Cincinnati, OH 45251

From I-275 take the Colerain Avenue exit and go north on Colerain (Rt 27) for about 2.5 miles. Take the Kemper Road exit and turn right onto Kemper. Germania Park is on the right after about 1.3 miles. From I-275 W, take exit # 36 toward Mt. Healthy. Turn right onto Hamilton Avenue (Rte. 127) and go north about 0.8 miles. Turn left onto West Kemper Road. Germania Park is on the left after 1.6 miles.

Contact Beth Reno at 513-622-1346 or Roger Parker at 513-771-3613 for additional information.

Alan Marshall to Receive 2008 Oesper Award

The Department of Chemistry at the University of Cincinnati, and the Cincinnati Section of the ACS will present the 2008 Oesper Award to Professor Alan Marshall from Florida State University at the Oesper Banquet and Symposium at UC, October 24, 2008.



Biography: Alan G. Marshall was born in Bluffton, Ohio in 1944, and grew up through high school in San Diego. He entered the then-new six-year medical program at Northwestern University in 1961, persisted through the first year of medical school, and then left to complete his B.A. degree with Honors in Chemistry in 1965. He completed his Ph.D. in Physical Chemistry from Stanford University in 1970, working with John Baldeschwieler on both NMR and ICR projects. He joined the Chemistry faculty at the University of British Columbia (Vancouver, Canada) in 1969. While in Canada, Alan was ace hitter for the 1978 Canadian Men's Open Volleyball National Champion team. He moved to Ohio State University in 1980 as Professor of Chemistry and Biochemistry and Director of the Campus Chemical Instrument Center. In 1993, he moved to Florida State University, where he is Robert O. Lawton Professor of Chemistry and Director of the Ion Cyclotron Resonance Program, supported by NSF as a national user facility. Although he has published extensively in several areas of spectroscopy, he is best known for his co-invention and continuing leading development of Fourier transform ion cyclotron resonance (FT-ICR) mass spectrometry. His major recognitions include: Fellow of American Physical Society, Fellow of American Association for the Advancement of Science, Fellow of the Society for Applied Spectroscopy; three American Chemical Society national awards (Chemical Instrumentation, Field-Franklin Award, and Analytical Chemistry Award); two Spectroscopy Society of Pittsburgh Awards (Hasler Award

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OESPER POSTER SESSION: Call for Papers



It is time again to present your research at the 28th Ralph & Helen Oesper Poster Session to be held at the University of Cincinnati, Friday, October 24, 2008 in the Great Hall of Tangeman University Center. The poster session is open to any student who would like the opportunity to present current research. Please submit abstracts (single spaced, 100 words or less not including references) or questions about the poster session to Heather Trenary at hrtrenary@gmail.com by **October 15, 2008**; an email confirmation of abstract receipt will serve as registration for the poster session.

For more information about all the Oesper events log on to: http://www.che.uc.edu/alumni_community/oesper/default.html

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and Spectroscopy Award); the American Society for Mass Spectrometry Distinguished Contribution Award; the International Society for Mass Spectrometry Thomson Medal; and the Chemical Pioneer Award from American Institute of Chemists. He is a former President of the American Society for Mass Spectrometry, and serves on several editorial boards. He has published four books, four patents, and 450 refereed journal articles, and has presented 1,400 talks/posters at conferences, universities, government labs, and industry. His papers have been cited 16,000 times. Of his 103 former Ph.D.'s and post-docs, 29 have gone on to academic positions. His current research spans FT-ICR instrumentation development, fossil fuels and environmental analysis, and mapping the primary and higher-order structures of biological macromolecules and their complexes.

The 2008 Oesper Symposium & Banquet will be held on Friday, Oct. 24. The Oesper Symposium will feature Prof. Hilka Kenttamaa, Purdue U; Neil Kelleher, U of Illinois; Michael Bowers, U of California at Santa Barbara; Jack Beauchamp, California Inst. of Technology; Roman Zubarev, Uppsala U, Sweden, as well as the award address given by Professor Alan Marshall. Alan Marshall will speak on "Reading Chemical 'Fine Print': The Quiet Revolution of Ultrahigh-Resolution Mass Spectrometry."

The Oesper Banquet will be held Friday evening and will feature Sir Harold Kroto (Nobel prize for chemistry, 1996), Florida State University as the after-dinner speaker. His topic will be "Kentucky Fried Creationism and Other Food for Thought."

For more information, please visit the Oesper website: http://www.che.uc.edu/alumni_community/oesper/

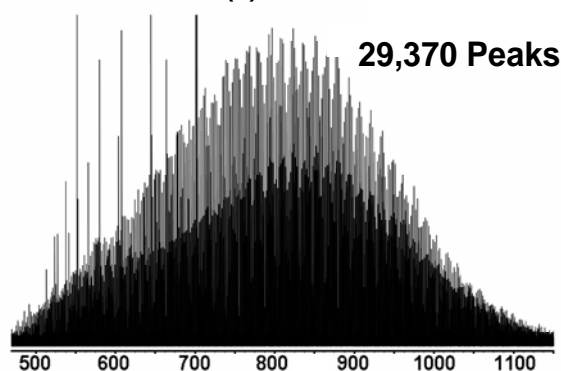


The Quiet Revolution of Ultrahigh-Resolution Mass Spectrometry

Alan G. Marshall
Florida State University

ABSTRACT: Every molecule has mass: thus, a mass spectrum is potentially a universal detector. Ultrahigh-resolution broadband mass resolving power ($m/Dm_{50\%} > 400,000$, available only with Fourier transform ion cyclotron resonance) has two important advantages. First, it becomes possible to separate complex mixtures (see Figure) without prior chromatographic or gel separation. Second, elemental composition, $C_cH_hN_nO_oS_s\dots$, may be determined from accurate (to better than 1 ppm) mass measurement alone for unknown molecules up to $\sim 1,000$ Da. At higher mass, biomacromolecular primary and higher-order structures become accessible. Examples from environmental, petrochemical, analytical, and biological (especially proteomics) problems will be presented. Supported by NSF (DMR-00-84173), NIH (GM-78359), Florida State University, and the National High Magnetic Field Laboratory.

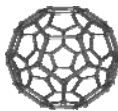
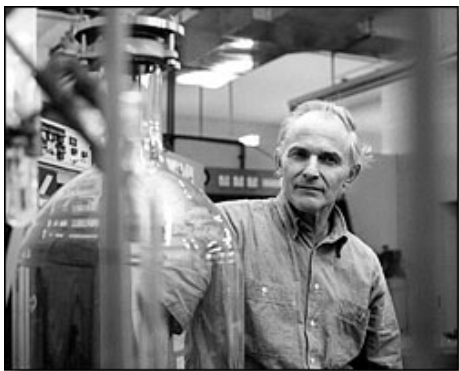
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www.ascincinnati.org





Sir Harold Kroto, Nobel Laureate, to speak at Oesper Award Banquet

Biographical Sketch: Professor Harold Kroto received a undergraduate training (BSc, Chemistry, 1961) from the University of Sheffield followed by a PhD (Molecular Spectroscopy, 1964) from the same institution. After postdoctoral work at the National Research Council (Ottawa, Canada) and Bell Laboratories (Murray Hill, NJ USA) he started his academic career at the University of Sussex (Brighton) in 1967. He became a professor in 1985 and a Royal Society Research Professor in 1991. Some of the significant highlights of his research were synthesis of the first phosphalkenes (compounds containing the free carbon phosphorus double bond) and synthesis of the first analogues of HCP, the phosphalkynes which contain the carbon phosphorus triple bond in 1976. In 1970s, he launched a research program at Sussex to look for cyanopolynes, and carbon chains in interstellar space resulting in the discovery of cyanobutadiyne and cyanohexatriyne [HC_nN ($n=7,9$)] between 1975-1978. This was followed by the discovery of C_{60} (in collaboration with Robert Curl and Richard Smalley of Rice University, Houston, Texas), a new allotropic form of carbon consisting of closed carbon cages, in 1985. This new family of non-planar carbon compounds generated an immense interest within the scientific community in such a short

period of time, with thousands of papers published about fullerenes and fullerene-based materials to date. Professor Kroto, together with Professor Curl and Professor Smalley, were awarded the Nobel Prize for this discovery. The same year Professor Kroto was knighted for his contributions to chemistry.

Professor Kroto moved to Florida State University in 2004 as an Emeritus faculty, where he presently carries out research in nanoscience and nanotechnology. In addition to the numerous awards and honors, Professor Kroto has 24 honorary degrees from universities and institutions across the globe. In 2001, he won the Royal Society's prestigious Michael Faraday Award, given annually to a scientist who has done the most to further public communication of science, engineering or technology in the United Kingdom. He is also the co-founder of the **Vega Science Trust**. Established in 1994, the Trust seeks to address general audiences through TV and international education outreach programs focused on promoting all areas of science.

National Chemistry Week – Seeking Volunteers

The Section will once again be promoting National Chemistry Week (October 19th-25th) throughout the greater Cincinnati region. This year's theme is "Having a Ball with Chemistry." If you are interested in participating in outreach activities to local libraries and the Cincinnati Museum Center, please contact the new NCW coordinators: Heather Bullen, bullenh1@nku.edu; or Keith Walters, walterske@nku.edu. We will be sending out more information about local libraries and the Museum Center soon. We are running a little late this year, so the sooner you get in contact with us the better.

-Heather Bullen & Keith Walters, NKU

**DR. RAY
D'ALONZO REC-
OGNIZED FOR
OUTSTANDING
SERVICE**



2007-2008 Cincinnati Section Chair John Janusz presented Ray D'Alonzo with an Outstanding Service Award on 14 May. Among his recognized contributions, Ray served as Chairman of the Cincinnati Section of the ACS in 1981. He chaired the Regional meeting in 2000 and was co-Chair in 2007, where his fund-raising efforts resulted in net proceeds of over \$70,000 for our Section. He led the significant rewrite/modernization of Section by-laws, coordinating the rewrite with ACS National. He also served as President of the Cincinnati Section of the Society of Applied Spectroscopy.

Ray obtained his B.S. degree in Chemistry (cum laude) from the University of the Sciences in Philadelphia in 1974 and his Ph.D. in Analytical Chemistry from the University of Massachusetts, Amherst in 1977. He was most recently manager of Doctoral Recruiting and University Relations at Procter & Gamble. Ray joined P&G's Food Division after graduate school. He worked in the Bar Soap and Household Cleaning Products Division, and the Pharmaceutical Division where he led the research section that discovered the blockbuster osteoporosis drug, Actonel.

In addition to the above-mentioned service to the ACS, Ray has been active in the Annual Greater Cincinnati United Way Campaign, Big Brothers/Big Sisters Association, and the Boy Scouts of America. In 1995, Dr. D'Alonzo received the Distin-

guished Alumni Award for service to UMASS. In 2000 he received the UMASS Chancellor's Medal – the highest honor that can be bestowed upon an individual from the University.

Ray retired from P&G this summer. He and his wife Marilyn will maintain their primary residence in Blue Ash, OH, but will establish a home in Amherst, Massachusetts where Ray will serve as an Adjunct Professor in the University of Massachusetts Chemistry Department. His teaching responsibilities are to begin in fall 2008.

Reported by Jeff Seeley
ACS Cincinnati Section Awards Chair '07-'08



**Earth Day Celebration 2008 at
Sawyer Point a Success!**

Last April 19th the Cincinnati Section of the ACS hosted a booth at the annual Earth Day Celebration. Although it was unusually cool with occasional sprinkles, the turnout for the event was good. As evidenced by the number of visitors to our booth we were very well received. In keeping with this year's theme, "Streaming Chemistry," Professor Al Conklin, a soil chemist from Wilmington College, prepared and conducted several demos showing the interaction of water and soil. He demonstrated water pressure and flow in several ways, and used a sponge to demonstrate how water flows through soil but still retains plenty of water for plants. Quite impressive was the demonstration of how water flows through soil with wheat growing in sand faster than in sand alone. This is because the roots form a path for water to flow through easier, and plant matter will also prevent erosion!

(Continued on page 11)

American Chemical Society Cincinnati Section Officers 2008-2009

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<i>Alternate Councilor (12/09)</i>	Michael Baldwin University of Cincinnati Department of Chemistry P.O. Box 210172 Cincinnati, OH 45221	513-556-9225 Michael.baldwin@uc.edu

SPONSORS SOUGHT FOR 8 SECTION MEETINGS IN THE 2008-2009 PROGRAM YEAR

Again we are seeking sponsors for each of our 8 monthly Section Meetings in the new program year. Sponsorship entails a commitment of sponsorship (cash or cash equivalent) of \$1000 to essentially pay for the many expenses associated with a quality meeting to be presented to the membership, including retiree and student meal discounts, speaker's expenses, (travel, housing, food, A/V, room rental for the meeting, and a Social Hour where attendees can meet others and build networks and contacts for career growth and enhancement.

Sponsors are recognized in of the 8 issues of CINTACS, and by introduction at the sponsored meeting. This "advertisement" is of great value, especially to new companies in the Cincinnati area. In several instances this has led

to participation in governance activities in the Section.

Over the past 5 years of this successful program, Companies, academic departments, retirees, and faculty, have been sponsors of monthly meetings. We are always striving to broaden the base of sponsors as this leads to better representation in Section programs and services to the membership.

If you or your employer has an interest in being a sponsor, please contact the undersigned for more details. Beyond these volunteers, we will be making phone calls and letter contacts to reach our goal of 8 sponsors. Every effort will be made to align the Sponsor's areas of interest with our monthly topics.

Ted J. Logan, CHAIR
Sponsorships and Solicitations Committee
Cincinnati Section, ACS
Phone: 513-385-8856
E-mail: TJLOGANCIN@AOL.COM

CINCINNATI CHEMISTS VISIT DISTRICT OFFICES OF AREA SENATORS

On August 11, members of the ACS Cincinnati Local Section visited the Cincinnati-area offices of the two Ohio senators and the two Kentucky senators to advocate for funding of physical-science research and K-12 science education. This is the 6th consecutive year in which section members have made these visits.

Representing the Section were Diana McGill, Chair of the Northern Kentucky University Department of Chemistry; Allan Pinhas of the University of Cincinnati and a Kentucky resident; and Joel Shulman of the University of Cincinnati and Chair of the Section's Government Relations Committee. They visited with the Northern Kentucky staffs of Senators Mitch McConnell and Jim Bunning, and the Southern Ohio staffs of Senators Sherrod Brown and George Voinovich.

The key points of discussion were the budgets for the National Science Foundation, the National Institute of Standards and Technology, the Department of Energy Office of Science. All of these agencies are major sources of funds for research in the physical sciences. The President's budget request for 2009 contains a 12-15% increase in funding for NSF, NIST, and DOE-Science; the Senate Appropriations Committee has agreed with this request. Section members urged the senators to support these funding increases by passing an appropriations bill before the end of the fiscal year (September 30).

Also discussed was the budget of the National Institutes of Health. Since doubling in the period 1998-2003, the NIH budget has remained essentially flat, amounting to a 13% decrease on an inflation-adjusted basis. Section members urged the senators to support a minimal 3.5% increase in the 2009 NIH budget, as passed by the Senate Budget Committee.

In all four visits, the staff took abundant notes and expressed support for our positions. As John Salyers, Field Representative for Senator Jim Bunning, said, "I don't get a vote [in the Senate], but I will surely pass this important information on to the Senator." Stay tuned this fall to see what happens!

-Reported by Joel Shulman

CINTAS Supports CERMACS 2008 Women in Science Symposium

The Women Chemists Committee, in partnership with the Procter & Gamble Company Doctoral Recruiting Office, provided financial support for the Women in Science Symposium held June 11, 2008 at CERMACS 2008 in Columbus Ohio. Samantha Horvath (graduate student, The Ohio State University) organized the symposium, which included invited speakers, a luncheon, and a lively panel discussion. Cincinnati was represented by Ruxandra Dima (University of Cincinnati) who presented *Exploring the Mechanics of Microtubules by Molecular Simulations*, and Sherrie Campbell (P&G) who spoke on *Science That Really Matters to P&G's Global Consumers*. Academia and industry were well represented, and the agenda included technical and women-in-science issues. Many attendees were graduate students from Midwestern universities. Both the ACS Cincinnati Local Section and P&G were publicly recognized for supporting the symposium and women in the sciences.

- Tina Engel

Science Café: Q & A on the Safety of Our Drinking Water

Submitted by Susan Hershberger

“How safe is tap water in the greater Cincinnati area?”

“Should you drink bottled water instead of tap water?”

“Should you filter your tap water?”

“What is Cincinnati doing to provide clean drinking water around the world?”

What? You are invited! Have a brew (or some water) with your relatives, friends, co-workers or neighbors as you discuss these and other water questions at a Cincinnati Section Science Café.

Where? The Bier Stube Room of the Hofbrauhaus, in Newport, Kentucky across from the Levee

When? Wednesday, October 22, 2008; 6 PM--?

Who? You, your chemist and non-chemist friends and our invited experts:

Jeff Vogt, Senior Chemist, Greater Cincinnati Water Works

Keith Zook, Global Sustainability Fellow, Procter & Gamble

Why? Science Café is a global phenomenon involving scientists sharing their knowledge and perspective with non-scientists in comfortable settings. The National ACS offers grants to local sections to encourage them to hold Science Cafes. Last year the Cincinnati Section sponsored a Saturday Science Café on chemistry careers, primarily for high school and junior high school teachers. This year the section is following the more traditional science café model by holding the event after work in a friendly pub setting. The topic for this year's Science Café is local and global drinking water. We will begin the discussion with short presentations by

two experts and then allow for discussion. Don't miss out on this opportunity to learn more about the water you drink.



Sponsors include National ACS, the Cincinnati Section ACS and the Center for Chemistry Education at Miami University (through a Science Education Partnership Award from the National Institutes of Health National Center for Research Resources).

(Continued from page 6)

We did a couple of demonstrations of water tension including floating a paper clip in a bowl of water, and seeing how many drops of water versus soapy water can be placed on top of a penny without falling over the sides. The younger visitors appreciated doing these experiments for themselves. We demonstrated how oily spills in the ocean or roadways could be cleaned up via emulsification with Dawn.™ Lastly, we demonstrated how to make non-potable water drinkable with the use of PUR™ sachets. The coagulant precipitates out all the solid material and the bleach sanitizes the water such that when filtered through an old T-shirt clear, clean water is produced. All the visitors enjoyed watching this occur before their eyes.

I extend my sincere thanks and appreciation to those who helped with the selection of demonstration, setting up, manning the booth and closing down for the day: Paul Gansle, Prof. Al Conklin, his wife Petra and student, David, Gloria Story, Abbe Vining, John Janusz, out-going ACS Cincinnati Section Chair, Kristie Bethune, John Walser, Keelin Walser, Julie Cassidy, Mike Hoppins, and Lynnette Miller. I'm looking forward to another fun Earth Day next year.

-Donna Wiedemann



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INVITED SYMPOSIA

- Biological Applications of Capillary Electrophoresis
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- The Future of HPLC-Method Development: Quality by Design—Evaluating the Control Space of Robust HPLC Methods
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- Young Investigator Award from Subdivision on Chromatography and Separation Chemistry
- Pressurized Fluids in Separations Technology

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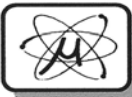
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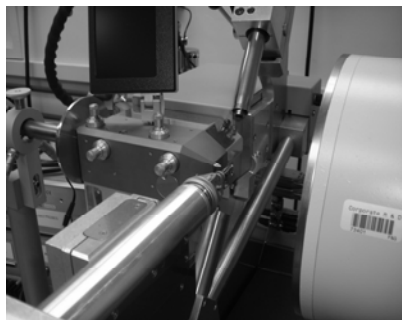
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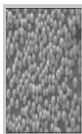

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