

CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

October, 2008
Vol. 46, No. 2

Meeting Calendar

Oct. 22	Science Café @ Hofbrauhaus, Newport
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	Sara Risch, Mich. St. U. @ 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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October Event: Oesper Award Banquet, Poster Session & Symposium at the University of Cincinnati October 24, 2008

**Great Hall
Tangeman University Center
University of Cincinnati**

*Sponsored by the University of Cincinnati,
Department of Chemistry*

The 2008 Ralph & Helen Oesper Symposium and Banquet will be held at Tangeman Center of the University of Cincinnati on Friday, Oct. 24. The annual Oesper Poster Session will also be held at UC on Oct. 24.

The Oesper Symposium will honor Professor Alan G. Marshall of Florida State University as this year's Oesper Award winner. The title of Professor Marshall's presentation is, "The Quiet Revolution of Ultrahigh-Resolution Mass Spectrometry."

The Oesper Banquet will also take place on Friday, Oct. 24 and will feature Nobel Laureate Sir Harold Kroto (also of Florida State University) as the after-dinner speaker. Professor Kroto's topic will be, "Kentucky Fried Creationism and Other Food for Thought."

More details & information on pages 3—5.

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THE CINTACS NEWSLETTER**Vol. 46, No. 2 October, 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 November 10 for the December 2008 issue. Electronic submission is strongly preferred. All materials should be sent to:

Dr. Kevin Ashley
CDC/NIOSH
4676 Columbia Parkway
Mail Stop R-7
Cincinnati, OH 45226-1998
Tel.: (513) 841-4402; Fax: (513) 458-7189
E-mail: KAshley@cdc.gov

ACS Cincinnati SectionChair:

Roger Parker
513-771-3613
parker.r@fuse.net

1st Vice Chair & Chair-Elect:

Susan Hershberger
513-727-3438
hershbss@muohio.edu

2nd Vice Chair:

Jeanette Krause
513-556-9226
jeanette.krause@uc.edu

Secretary:

Rich Mullins
513-745-3361
mullins@xavier.edu

Treasurer:

Ramona Quintanilla
513-627-8411
quintanilla.r@pg.com

Trustee (Chair):

Emel Yakali
513-745-5686
emel.yakali@uc.edu

From the Chair

I am pleased to announce the ChemLuminary Awards received by members of the Cincinnati Section on August 19th at the Philadelphia National ACS Meeting.

Mickey Sarquis (MU-Middletown) received the Helen M. Free Award for Public Outreach. Also, the 39th Central Regional Meeting (CERMACS 2007) won the Outstanding Regional Meeting Award from the Committee on Meetings and Expositions. Congratulations to Joe Caruso and the CERMACS Committee. Joe provided a poster on CERMACS 2007. The Cincinnati Section was nominated for two other ChemLuminary Awards, in Outstanding Industrial Involvement and in the Outstanding Teacher Program. The Outstanding Teacher Program won. Congratulations to Susan Hershberger and the committee. Susan provided a poster on the Science Café event. Thanks to Kathy Gibboney and Jim Knittel helping with the posters at the ChemLuminary program.

October is an exciting month for the Section. National Chemistry Week (NCW) is celebrated October 19-25 by chemical demonstrations in the area's library branches and at the Cincinnati Museum Center. Please help Keith Walters and Heather Bullen (NKU) with NCW. A Science Café (Susan Hershberger) Q & A on our Drinking Water will be held at the Hofbrauhaus in Newport on October 22 (Water or Beer?). The Oesper Award Banquet and Symposium is October 24th at the University of Cincinnati. Sir Harold Kroto, Florida State University (FSU) will speak. Congratulations to Alan Marshall (FSU), the 2008 Oesper Award winner.

Joseph Francisco, Purdue University will give two talks at the December 4th meeting at Xavier University.

January 14, 2009 we meet at Givaudan. Sara Risch, Michigan State University, will speak on the chemistry of T&A (Taste and Aroma).

February 11 we honor the Technician and Chemist of the Year at the Miami University campus in Oxford.

On March 11th, my favorite food chemist and cook, Shirley Corriher, will speak at our joint meeting with Dayton. (site TBD).

April 15th is Education Awards Night at Northern Kentucky University. Presentations will be given by Mickey and Jerry Sarquis.

See you at a Public Library, the Hofbrauhaus and at the Oesper Banquet.

-Roger Parker

(Continued from Page 1)

In addition to Professor Marshall's Oesper Award address, the symposium will also feature the following speakers:

Professor Hilkka Kenttamaa
Purdue University

Professor Neil Keller
University of Illinois

Professor Michael Bowers
University of California at Santa Barbara

Professor Jack Beauchamp
California Institute of Technology

Professor Roman Zubarev
Uppsala University, Sweden

→ *Mark your calendars now!*

OESPER POSTER SESSION: 2nd Call for Submissions

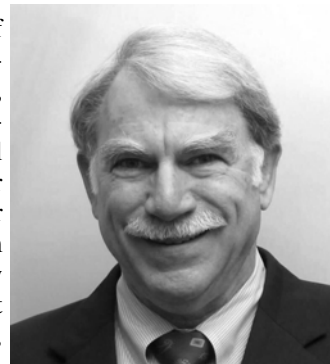


It is time again to present your research at the 28th Ralph & Helen Oesper Poster Session to be held at the University of Cincinnati, Friday, October 24, 2008 in the Great Hall of Tangeman University Center. The poster session is open to any student who would like the opportunity to present current research. 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

Prof. Alan G. Marshall 2008 Oesper Awardee

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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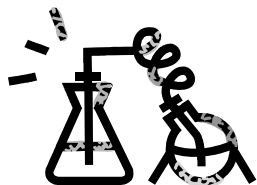
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and Spectroscopy Award); the American Society for Mass Spectrometry Distinguished Contribution Award; the International Society for Mass Spectrometry Thomson Medal; and the Chemical Pioneer Award from American Institute of Chemists. He is a former 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/

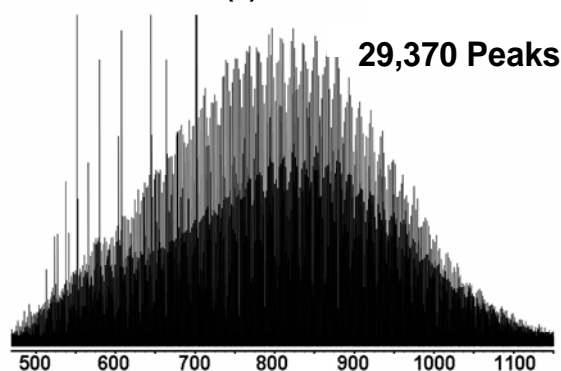


The Quiet Revolution of Ultrahigh-Resolution Mass Spectrometry

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.

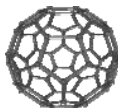
Bitumen Asphaltenes
14.5 Tesla (+) APPI FT-ICR MS



Visit the ACS Cincinnati Section On-line:

www.ascincinnati.org





Nobel Laureate Sir Harold Kroto to give after-dinner speech 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 cyanoheptatriyne [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 CALL FOR VOLUNTEERS!

WE NEED NATIONAL CHEMISTRY WEEK DEMONSTRATORS TO TAKE ON A LIBRARY PROGRAM THE WEEK OF OCTOBER 20TH.

IT'S A LOT OF FUN!! A TRAINING EVENT WILL BE HELD ON THE EVENING OF TUESDAY SEPTEMBER 30TH, GIVEN BY ED ESCUDERO, AT SUMMIT COUNTRY DAY SCHOOL. PLEASE CONTACT OUR NATIONAL CHEMISTRY WEEK CHAIRS, KETIH WALTERS (WALTERSKE@NKU.EDU) AND HEATHER BULLEN (BULLENH1@NKU) FOR MORE DETAILS AND A LIST OF LIBRARIES IN NEED OF A PROGRAM. WE NEED YOU!!!! THANKS!!!!



Mickey Sarquis Receives ACS Award for Lifelong Science Outreach Efforts

Mickey Sarquis, Miami University professor of chemistry and biochemistry, received the 2008 Helen M. Free Award for Public Outreach at the ChemLuminary ceremony during the ACS national meeting in Philadelphia.

By bringing to life mottos such as “When you capture a teacher, you capture a generation,” and “Chemistry is for everyone,” Mickey Sarquis has created award-winning Terrific Science programming within the Center for Chemistry Education. Over the past 25 years, more than 21,500 kindergarten through college educators within the U.S. have participated in Terrific Science courses. Her pioneering efforts in teacher professional development and teacher resource publication have become national and international models. A strong proponent of active learning, Mickey has forged enduring partnerships between academia and industry to build fun, engaging, and relevant experiences for children and teachers of all ages. She has published more than 60 books (including the popular *Teaching Science with TOYS* series) and is a widely trav-

eled guest lecturer and ACS tour speaker.

Mickey was our own Cincinnati Section ACS Chemistry of the Year in 2006 and has also been recognized with the national Chemical Manufacturers Association Catalyst Award and The Ohio Academy of Science Outstanding University Educator Award. She has been awarded more than \$15 million in grant funds from federal, state, and numerous industrial sources. Within ACS, she has held positions as Chair of the Division of Chemical Education and consultant to the ACS Committee of Education, and she was the first high school editor of the *Journal of Chemical Education* (1979-96).

-Reported by Susan Hershberger

Brief note from the editor:

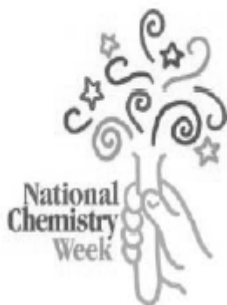
Much of the information on the Oesper Award events that you see in the present issue also appeared in the September edition of CINTACS. This is no accident: I wanted to doubly highlight the contributions of this year's awardee, Prof. Alan Marshall, and also those of the after-dinner Oesper Banquet speaker, Nobel Laureate Prof. Harold Kroto. Moreover, we will have a tremendous lineup of invited speakers for the Oesper Symposium. As far as I am concerned, this is *the* science event of the year in the Greater Cincinnati area.

Please note that, unlike last year and previous years (when the Oesper events constituted a two-day affair), this year's Oesper activities will all occur on one day: Friday, October 24.

Hope to see you there!

-Kevin Ashley





CELEBRATE NATIONAL CHEMISTRY WEEK OCTOBER 19-25, 2008

This year's celebration of National Chemistry Week (NCW), with the theme, *Having a Ball with Chemistry (The Chemistry of Sports)*, will be a very special celebration! The mission of NCW is to reach the public, particularly students, with positive messages about chemistry and to provide a means of effectively mobilizing ACS local sections.



When former ACS President George Pimentel conceived the idea of celebrating National Chemistry Day in 1987, he never could have predicted where his idea would lead. From a one-day celebration, National Chemistry Day grew into National Chemistry Week. From a biennial celebration, the celebration became an annual event in 1993. The program has been the recipient of several prestigious public relations and association awards.

Join with ACS this October 19-25 to celebrate *Having a Ball with Chemistry*, emphasizing the chemistry of sports.

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 success-

ful 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
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Debora J. Fillinich
Division of Membership & Scientific
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Cincinnati Section ACS Science Café on Safe Drinking Water 6:00 PM Wednesday October 22, 2008

Come with your friends to discuss

Local and Global Drinking Water

with

Jeff Vogt
Senior Chemist
Greater Cincinnati Water Works

and

Keith Zook
Global Sustainability Fellow
Procter and Gamble

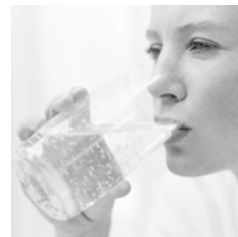
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National ACS
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Center for Chemistry Education,
Miami University (SEPA NIH NCRR Award)

-Submitted by Susan Hershberger



AMERICAN CHEMICAL SOCIETY
Cincinnati Section

2008 NATIONAL CHEMISTRY WEEK

“HAVING A BALL WITH CHEMISTRY” POSTER CONTEST

The local Cincinnati Section of the American Chemical Society is again sponsoring a chemistry poster contest. This year the contest is based on “**Having a Ball with Chemistry.**” The poster should be fun, motivational and inspire students to discover the connections between chemistry and sports.

For example: Consider how science / chemistry is used in sports:

Importance of an active lifestyle for physical well-being.

Chemistry in materials used for sports.

Improvements in sporting equipment made possible through chemistry (improve safety or allow for “extreme sports”).

Chemistry and sports nutrition.

The art posters are to be submitted on paper that is no larger than 14 X 22 inches. The local ACS section will select one winner from each grade category listed below.

One Cincinnati area Winner will be selected in each of the following categories:

K – 2nd grade	6th – 8th grade
3rd – 5th grade	9th – 12th grade

Entry Guidelines

All entries must be original work without aid from others.

Posters must be no larger than 14 X 22 inches on standard paper or art paper.

Entries on foam board will not be accepted.

Entries must be drawn using crayons, paint, colored pencils or markers.

Only one entry per student will be accepted.

All entries **must** have the following information included on the back of the poster:

Entries lacking complete and legible information will be disqualified.

student's name

grade

name of school (or sponsoring group – i.e. Scout troop)

school (or adult contact) address

teacher's (or adult's) name

school (or adult's) telephone number

teacher's (or adult's) e-mail (& student's email if applicable).

Note: Home schooled students are also eligible and should include the name of any home school group with which they are associated.

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Posters must be postmarked by **Wednesday, October 22, 2008**.

ACS is not responsible for lost, damaged, or delayed postal shipments.

All posters become the property of the American Chemical Society.

Acceptance of winning constitutes consent to use winners' names, likenesses and entries for editorial, advertising and publicity purposes by the American Chemical Society.

Judging: Participant entries will be evaluated on how well the message in the poster promotes chemistry relating to sports.

Four criteria will be used to determine the winner for each age group.

Artistic Merit (use of color, quality of drawing, poster design and layout)

Poster Message (fun, motivational, and promote chemistry's important role in the field of athletics)

Originality & Creativity (unique, clever, and/or creative design)

Neatness (free of spelling and grammatical errors and/or stray marks)

Winners of the Cincinnati Section of the ACS along with their teachers and parents will be honored as guests of our local section's dinner meeting in April of 2009 at Northern Kentucky University.

The Cincinnati Section ACS will submit the local winning poster in each of the four grade categories to the National ACS Office of Community Activities in Washington, DC. First and second place winners of the national contest will be announced on the national website and via email announcement after the week of November 5. Thus, if you are a winner in the local or the national ACS contest you will be notified. If you are not notified, then you did not win.

National Winners will be awarded for first place: \$250.00

National second place winners will be awarded: \$150.00

Teachers of National Winning Students will be awarded a Periodic Table of the Elements Poster.

Educators: Please encourage your students to participate in this contest...it is FUN. You can find more information and additional resources for your classroom/students at: www.acs.org/hcw

**Send posters by 10/22/08 to: Jamie Heimkreiter
1221 Sunrise Drive
Loveland, OH 45140**

**WE ENCOURAGE CLASSROOMS TO COLLECT AND SEND ALL STUDENT
ENTRIES IN ONE LARGE ENVELOPE TO THIS ADDRESS.**

If you have additional questions, please contact Jamie Heimkreiter at jnheimkreiter@hotmail.com for additional information. Please forward this contest information to your fellow teachers so their students can also be a part of this contest.

American Chemical Society
Cincinnati Section
Jamie N. Heimkreiter
Contest Committee Chair

Deadline: October 22, 2008

Chemical Information Update – InChI™

**Edlyn S. Simmons, Chair, Chemical
Information Discussion Group**

During the 19th century, an Eastern European ophthalmologist named L. L. Zamenhof promoted the idea that an easy, flexible language without ties to any nation would serve as a universal second language to foster peace and international understanding. He invented Esperanto, a language that persists into the 21st century without achieving its lofty goals. The language of chemical notation at the turn of the 21st century is a little like the national languages of 18th century Europe, with myriad proprietary notations for indexing of chemical substances. Any chemical name or structure in a chemical publication needs to be translated over and over again for indexing and retrieval in scientific databases. Many chemical information specialists felt that a common notation would foster peace and understanding among chemists and facilitate open access of scholarly literature, and to that end sort of universal language has been developed for chemistry. It is known as InChI™, short for INPADOC International Chemical Identifier, and a trademark of IUPAC.

InChI is a form of line notation, a string of symbols that represents the elements of a molecule and the connections among them that can be computed directly from the chemical structure without the use of proprietary software. InChI identifiers are freely useable, and a chemist with sufficient knowledge of InChI can understand the underlying structure from the notation. Open source computer systems are available for conversion of chemical structures drawn in a number of formats into InChI strings and conversion of the strings into IUPAC chemi-

cal names. The official InChI website, <http://old.iupac.org/inchi/>, software and to InChI utilities offered by other organizations.

Work on an International Chemical Identifier was initiated in 2000 by Alan McNaught of INPADOC and Steve Heller and Steve Stein of NIST, the U.S. National Institute of Standards and Technology. Version 1 of InChI was released in April, 2005, and work continues on improvements. In 2007 the InChIKey, a condensed, 25 character, hashed version of the full InChI, was introduced to facilitate web retrieval of chemical structures.

Use of InChI is growing at an impressive rate; IUPAC lists 30 web-based databases that are already using it for chemical structure indexing. Only a few years after its launch, InChI is spreading at a rate that would have satisfied even the inventor of Esperanto.

Footnotes:

Links to information on InChI and its use can be found in Wikipedia at http://en.wikipedia.org/wiki/International_Chemical_Identifier.

Information on Esperanto was taken from <http://en.wikipedia.org/wiki/Esperanto>

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 simmons.es@pg.com

You'll find the whole laboratory science community here.

ACS/DAC Co-Programming at Pittcon 2009

INVITED SYMPOSIA

- Biological Applications of Capillary Electrophoresis
- Evolution of Modern Chromatography: Celebration of 25 years of the Subdivision on Chromatography and Separation Chemistry
- The Future of HPLC-Method Development: Quality by Design—Evaluating the Control Space of Robust HPLC Methods
- 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)
- New Concepts and Instruments for Electrochemical Sensors
- Multi-residue Pesticide Analysis for Food Testing
- Understanding Chromatography with Sub-2 μ m Particles
- Quality Assurance of Measurements and Proficiency Testing

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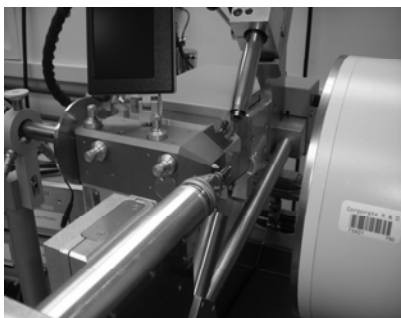
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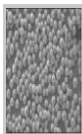
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