

THE NUCLEUS

October 2006

Vol. LXXXV, No. 2

Monthly Meeting

*Henry A. Hill Award to D. Phillips
E. Ann Nalley and Harry Mandeville
to Speak*

National Chemistry Week Events

*Lectures and Demonstrations
Puzzle Contests for Grades 1-6
and Grades 7-12*

2nd NESACS Golf Tournament

\$7300 Raised for NESACS programs

Nucleus Buyer's Guide



2006 Eastern Analytical Symposium and Exposition



November 13-16, 2006

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e-mail: mcash0953(at)aol.com

Any Section business may be conducted via the business office above.

NESACS Homepage:

<http://www.NESACS.org>

Sathish Rangarajan, Webmaster

ACS Hotline, Washington, D.C.:

1-800-227-5558

Officers 2006

Chair:

Patricia Mabrouk

Chemistry Department, Northeastern University

Boston, MA 02115

617 373 2845; p.mabrouk(at)neu.edu

Chair-Elect:

Mukund Chorghade

14 Carlson Circle, Natick, MA 01760-4205

508-651-7809 and 508-308-3891

Chorghade(at)comcast.net

Immediate Past Chair:

Amy Tapper

Peptimmune

64 Sidney Street, Suite 380,

Cambridge, MA 02139

617-715-8005; amy.tapper(at)peptimmune.com

Secretary:

Michael Singer

Sigma RBI

3 Strathmore Rd. Natick, MA 01760-2447

508-651-8151x291 msinger(at)sial.com

Treasurer:

James Piper

19 Mill Rd., Harvard, MA 01451

978-456-3155 piper28(at)attglobal.net

Auditor:

Anthony Rosner

Archivist:

Myron S. Simon

20 Somerset Rd.

Newton, MA 02465; 617-332-5273

romysimon(at)mindspring.com

Trustees:

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Cover: *Dr. Dorothy J. Phillips recipient of the 2006 Henry A. Hill Award (Photo by Ian Hanslope).*

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THE NUCLEUS

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Editor:

Michael P. Filosa, editor, Ph.D., ZINK Imaging Incorporated, 1265 Main Street, Waltham, MA 02451 Email: Michael.Filosa(at)zink.com; Tel: 781-386-8479.

Associate Editors:

Myron S. Simon, 20 Somerset Rd., W. Newton, MA 02465, Tel: 617-332-5273
Nancy Simons, Analytical Chemist, Corporate R&D, Boston Scientific Corp., 1 Boston Scientific Place A4, Natick, MA 01760-1537.
Email: Nancy.Simons(at)bsci.com; Tel. 508-650-8603; Fax 508-647-2329
Sheila E Rodman, Konarka Technologies Inc., 116 John St. Suite 12, Lowell, MA 01852 email:srodman(at)konarka.com tel 978-569-1414

Board of Publications:

Mary Mahaney (Chair), Martin Idelson, Vivian K. Walworth

Business Manager:

Karen Piper, 19 Mill Rd., Harvard, MA 01451, Tel: 978-456-8622

Advertising Manager:

Vincent J. Gale, P.O. Box 1150, Marshfield, MA 02050, Tel: 781-837-0424; FAX: 781-837-1453

Contributing Editors:

Morton Hoffman, Feature Editor; Dennis Sardella, Book Reviews;

Calendar Coordinator:

Sheila Rodman, email: srodman(at)konarka.com

Photographers:

Morton Z. Hoffman, Ying Wei and James Phillips

Proofreaders:

Donald O. Rickter, Myron S. Simon, Vivian K. Walworth

Webpage:

Webmaster: Sathish Rangarajan, sathish.rangan2(at)gmail.com

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ACS President to Speak at October Meeting

Abstract

Dr. E. Ann Nalley

The First Fifty, the Next Fifty: ACS Members Ensuring the Future of the Chemical Enterprise

The chemical enterprise in the United States has grown enormously over the past fifty years, and it is in no small part due to contributions of dedicated chemical professionals, including those recognized as long-standing members of the American Chemical Society.

Although I would like to say that I can set the American Chemical Society and the chemical enterprise on a course toward a positive future, I am not naïve enough to believe that I can accomplish it alone, or that the whole chemical enterprise can be changed in one year. Therefore, I had identified three focal points for action and activities during my presidential year: communicating the value and relationship of basic and applied research; emphasizing the importance of good science and mathematics education at all levels; and recognizing that the most important asset the American Chemical Society has is its members.

This talk will highlight contributions to chemistry in the context of those who helped to make it happen, and the commitment of ACS members to ensure that their organization is dynamic and responsive to the needs of the chemical enterprise.

Biography

Dr. E. Ann Nalley, 2006 President of the American Chemical Society, is currently a Professor of Chemistry in the Physical Science Department at Cameron University, a position that she has held since 1969. Before coming to Cameron she taught high school chemistry and mathematics at Musko-



gee High School. She has held positions as a visiting scientist or professor in the Chemistry Departments at the University of Oklahoma and the University of Texas at Dallas, and the Polymer Science Department at the University of Southern Mississippi. She earned a Bachelor of Science Degree at Northeastern Oklahoma State University, a Master's Degree in Analytical Chemistry at Oklahoma State University, and a Ph.D. in Radiation Chemistry from Texas Woman's University. Her research includes new product development and solving industrial problems in the area of cosmetic analysis, nanostructural materials, applied research in the petroleum industry and molecular modeling. Her research is currently funded through the Oklahoma OCAST (Oklahoma Center for the Advancement of Science and Technology) program.

Her activities in the American Chemical Society as well as the Honor Society of Phi Kappa Phi have earned her recognition at the national level. She has held every office in the local section of the American Chemical Society and has served on nine national committees and task forces. In 1992, she was honored by the five Oklahoma sections of the American Chemical Society as the Oklahoma Chemist of the Year. She was the first and only woman to be so honored. In March of 1996, she was honored at the national meeting of the American Chemical Society in New Orleans when she was presented with the Division of Professional Relations' Henry Hill Award for Outstanding Contributions to Professionalism. She has

Continued on page 6

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Call for Abstracts!

The 5th Annual New England Environmental Research Symposium

Saturday, November 11, 2006

9:00 AM - 3:00 PM

Bridgewater State College

Co-sponsored by NESACS

Poster abstract submission is open to all undergraduate and graduate students at <http://www.bridgew.edu/Environmental>. A discussion session on Green Chemistry will be held at 3:00 PM.

Abstract submission deadline is November 1. Please email questions to Ed Brush (ebrush@bridgew.edu) ◇

Monthly Meeting

The 872nd Meeting of the Northeastern Section of the American Chemical Society

Henry Hill Award, Presentation and Recognition of the 50-year members,

Special Guest: E. Ann Nalley, President, ACS

Thursday, October 12, 2006

Holiday Inn – Brookline, 1200 Beacon Street, Brookline, MA

2:30 pm Career Services Presentations and Resume Reviews, Mukund Chorghade, Chair-Elect, NESACS; Megan Driscoll and Jennifer Sass of Phamalogics Recruiting.

4:30 pm Board Meeting

5:30 pm Social Hour

6:15 pm Dinner

7:15 pm Presentation of 50-Year Members

7:30 pm E. Ann Nalley, President, ACS, *The First Fifty, the Next Fifty: ACS Members Ensuring the Future of the Chemical Enterprise*

8:00 pm Award Meeting, Dr. Pam Mabrouk, NESACS Chair Presiding
Henry A. Hill Award for Outstanding Service to the Northeastern Section to Dorothy Phillips
Evening Lecture: Dr. Harry Mandeville, *Polymeric Pharmaceuticals – The Story of GelTex*

Dinner reservations should be made no later than noon, Thursday October 5, 2006. Please call or fax Marilou Cashman at (800) 872-2054 or e-mail at MCash0953@aol.com. Reservations not cancelled at least 24 hours in advance must be paid. Members, \$30.00; Non-members, \$35; Retirees, \$20; Students, \$10.

THE PUBLIC IS INVITED.

Directions to the Holiday Inn-Brookline can be found at <http://www.ichotelsgroup.com/h/d/hi/1/en/hotel/bklma/transportation>

Biography



W. Harry Mandeville was born in Tulsa, Oklahoma. He attended college at the Colorado School of Mines, where he received a B.S. degree in chemistry and then at the Massachusetts Institute of Technology where he received a Ph. D. degree in organic chemistry, studying with Prof. George M. Whitesides.

He has been employed by Hoffmann-La Roche, Nutley, NJ (1975-1985), Hyperion Catalysis International, Lexington, MA (1985-1987), Waters Chromatography Division of Millipore, Milford, MA (1987-1991), Genzyme Corp., Waltham, MA (1992-2004) and finally Peptimmune where he is Vice President, Process Development and Manufacturing.

He was the first employee of GelTex Pharmaceuticals, a company which was purchased by Genzyme in 2000, and co-inventor of Renagel, and WelChol, GelTex's first two FDA approved products, for the treatment of hyperphosphatemia in end-stage renal disease and hypercholesterolemia, as well as GT389-255, a new drug for the treatment of obesity. He has received various awards throughout his career including the R&D 100 award for Renagel Capsules awarded by R&D magazine in 1999; the American Chemical Society, Polymer Chemistry

Continued on page 7

treating an infection without antibiotics.

These polymers are remarkable in their simplicity, lack of toxicity and side-effects, and also in the speed with which they made it through the approval process. ♦

Abstract

Polymeric Pharmaceuticals – The Story of GelTex.

GelTex Pharmaceuticals existed for a relatively short period of time, only eight years before being purchased by Genzyme, but during those eight years was remarkably successful. The overarching theme of GelTex was polymers as drugs – a concept that many have trouble grasping. Two polymeric drug products, Renagel and WelChol, have been approved by the FDA and are currently marketed and a third, tole-

vamer, is in phase 3 clinical trials at Genzyme as the GelTex legacy lives on.

Renagel is a polymer that binds phosphate in the gastro-intestinal tract and causes its excretion via the fecal route. It is indicated for help in the treatment of end stage renal disease. WelChol binds bile acids in the gastro-intestinal tract and causes their excretion via the fecal route. Reduction of bile acids results in the reduction of cholesterol. Tolevamer is a polymer that binds the toxins of *Clostridium difficile*. It is a treatment for this very serious gastro-intestinal ailment that has no antibiotic character. Imagine

2006 Henry A. Hill Award to Dorothy Phillips

The Henry A. Hill Award, awarded annually to a member of the Northeastern Section for distinguished contributions to the section and the profession of chemistry, will be presented at the October meeting to Dorothy J. Phillips. Dr. Phillips obtained her B.A. from Vanderbilt University (1967) and Ph.D. (1974) from the University of Cincinnati. Dr. Phillips is currently Director of Strategic Marketing at Waters Corporation where she has also served as Director, Clinical Marketing (2004), Director New Business Development (2003-04), Director Strategic Program Management (2000-02), Brand Manager (1997-99), and R&D Laboratory Manager (1986-96). Dr. Phillips has over 70 publications and presentations in the area of analytical chemistry focused on HPLC. Dr. Phillips honors include being honored by TTT Mentor Program of Cambridge, MA as a Minority Role Model, 2004-05; Distinguished Alumna, University of Cincinnati

(McMickens College of Arts and Sciences and Center for Women Studies), and recipient of Waters' Manager Award for Innovation in 1987 and 1988. Dr. Phillips is a member of the following professional organizations: The American Society of Mass Spectrometry; American Association of Pharmaceutical Scientists; American Association for the Advancement of Science; National Organization for the Professional Advancement of Black Chemists and Chemical Engineers; American Association of Clinical Chemists. ACS activities include membership in the following *ACS Divisions*: Agrochemicals; Analytical Chemistry and Biological Chemistry. Dr. Phillips has been a member of ACS since 1973 including service to the *Northeastern Section*: Councilor, 1995-06 (elected for 2007-09 term); Chair, 1993; Chair-Elect and Program Chair, 1992; Project SEED, Committee Chair, 1994-95; Nominating Commit-

tee, Chair, 1994; Centennial Celebration, Co-chair, 1998; Fundraising Committee, Chair, 2004-06. Dr. Phillips' service in *ACS National Office* includes: Committee on Committees, 2001-06, Secretary, 2003-04; Committee on International Activities, Committee Associate, 1998; Committee on Membership Affairs, 1997-00, and Committee Associate, 1996. Dr. Phillips has been very active in promoting and coordinating the Northeastern Section's sponsorship of programs that focus on increasing the math and science interest of minority students in greater Boston, and serving as a mentor for the New England Board of Higher Education (NEBHE) Science Network for students who are traditionally underrepresented in Science, Technology, Engineering and Mathematics (STEM). Dr. Phillips has also participated globally serving as a delegate with the People to People Ambassador Program to China in 1990 with a group of scientists for technology transfer; and as a member of AAPS Delegation to China, 2004 to explore academic and industrial collaborations in the pharmaceutical sciences ◇

ACS President

Continued from page 4

served as a Councilor for more than 25 years. In 2005 she was elected to the position of President-Elect and will serve as President in 2006 and Immediate Past President in 2007. She had previously served for seven years on the Board of Directors of the American Chemical Society as Director of District V. She served four years on the National Board of the American Institute of Chemists as a Director-At-Large, a term she completed in 1996.

She is a member of Sigma Xi, Sigma Pi Sigma, Phi Delta Kappa, American Association for the Advancement of Science, American Association for University Women, American Institute of Chemists, and four divisions of the American Chemical Society.

In her spare time, she finds time to maintain a pet refuge for over 40 displaced or deserted animals. ◇

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Nominations 2nd Annual NESACS Golf Tournament

Philip L. Levins Memorial Prize

Nominations for the Philip L. Levins Memorial Prize for outstanding performance by a graduate student on the way to a career in chemical science should be sent to the Executive Secretary, NESACS, 23 Cottage St., Natick, MA 01760 by March 1, 2007.

The graduate student's research should be in the area of organic analytical chemistry and may include other areas of organic analytical chemistry such as environmental analysis, biochemical analysis, or polymer analysis.

Nominations may be made by a faculty member, or the student may submit an application. A biographical sketch, transcripts of graduate and undergraduate grades, a description of present research activity and three references must be included. The nomination should be specific concerning the contribution the student has made to the research and publications (if any) with multiple authors.

The award will be presented at the May 2007 Section Meeting. ◇

W. Harry Mandeville

Continued from page 5

Division award for Industrial Polymer Chemistry in 2000; the Champion of Hope Award from the National Kidney Foundation in 2001; the Colorado School of Mines Distinguished Medal in 2004; and the American Chemical Society's award for Team Innovation in 2005. He has over 85 publications and patents in the fields of chemistry and polymer chemistry.

He is married to Susan (Turner), has two children, Jennie (26) and Rebecca (22), and resides in Lynnfield, Massachusetts. He enjoys golf, tennis, skiing and pitches for the Genzyme softball team, a perennial Boston area biotechnology league power. ◇



\$7300 Raised for NESACS Programs

On June 1st, 2006, the Second Annual NESACS Golf Tournament was held at Stow Acres Country Club in Stow, MA. After many weeks of rain, it was a beautiful day for golf. NESACS hosted almost double the participants from last year's event, with 88 golfers teeing off. The format of the day was a continental breakfast prior to an 18 hole scramble tournament on the South Course, followed by lunch and an awards ceremony. The winning foursome, with a score of 60 (11 under par) was Michael Ironside, Steve Gagnier, Dave Reed, and Matt Stirling from Albany Molecular. Two teams tied for 2nd place with a score of 62. These teams were Matt Halverson, Damon Abernathy, Aimee Hodge, and Christian Raudelunsa from Lyophilization Services of New England (LSNE) and Brian Robins, Brian Scanlan, and Paul

Delfino. The men's longest drive was won by Matt Halverson from LSNE and the women's longest drive was won by Alexis Cole. The closest to the pin was won by Cassandra Celatka.

The sponsors for the tournament were Lyophilization Services of New England (Os Sponsor), IRIX Pharmaceuticals, Hovione, Johnson Matthey Pharma Services, and Strem Chemicals (Ir Sponsor), Shasun Pharma Services and Cambridge Major Laboratories (Rh Sponsors) and Vertex (W Sponsor). This generous sponsorship raised \$7300.00 for NESACS programs.

The 2007 tournament will be held in conjunction with the Boston National ACS meeting. The date of the tournament will be Wed., August 22nd (course to be determined). The event will be co-sponsored by the National Women Chemists Committee (WCC). ◇

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National Chemistry Week Events

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October 22, 2006 – Wellesley College Science Center

Phyllis A. Brauner Memorial Lecture by Dr. Bassam Shakhashiri

Dr. Bassam Shakhashiri is a Professor of Chemistry at the University of Wisconsin-Madison and is the William T. Evjue Distinguished Chair for the Wisconsin Idea. Professor Shakhashiri has captivated audiences with his scientific demonstrations at a variety of locations, including Boston's Museum of Science, the National Academy of Sciences, and the Smithsonian's National Air and Space Museum in Washington.

Room 277, 11 am – 12 pm and 2 pm – 3 pm

The Sunday presentations are free and open to the public. Tickets are available on a first come, first serve basis, though reservations are recommended. To reserve tickets, please contact Marilou Cashman either via email mcash0953@aol.com (preferred) or by phone 1-800-872-2054 before October 19, 2006. Tickets will be available for pick-up outside of the Science Center on the 22nd. Parking is free. For directions to Wellesley College, please visit <http://www.wellesley.edu/Admin/travel.html>. While at Wellesley, a visit to the arboretum and greenhouses (which are open to the public) is a must.

For more information, visit <http://www.wellesley.edu/FOH/greenhouse.html>.

Kicking off National Chemistry Week 2006 festivities

Join us in a variety of hands-on activities related to the yearly theme. Taking place from 10 am – 3:30 pm on October 22, 2006 inside the Wellesley Science Center. For more information, please visit www.nesacs.org.

October 28, 2006

Boston Children's Museum

NCW volunteers will be on hand to perform demonstrations and assist in hands-on activities related to the yearly theme.

Museum of Science, Boston

NCW volunteers will be on hand to perform demonstrations and assist in hands-on activities related to the yearly theme.

October 22 – 28, 2006

K-12 students participate in the NCW **poster competition**. Grades 9-12 may participate in the **puzzle contest** as well. See www.nesacs.org for detailed information.

Hogwarts at Holy Cross IX

“The Joy of Chemistry”

**Exciting Chemistry Show by
World Renowned Chemist & Chemical Educator
Professor Bassam Z. Shakhashiri**



(Photo Credit: <http://scifun.chem.wisc.edu/xmascheery.html>)

PLUS

Hands-On Experiments for the Whole Family

Friday, October 20th 6:30-8:30 PM
Hogan Ballroom, College of the Holy Cross
FREE Admission

Dinner with Prof. Shakhashiri 5:30-6:30 pm, \$25
(ACS Members & K-12 Teachers: \$15) RSVP by Oct 13

Sponsored by: Central Mass. Section, American Chemical Society
& the College of the Holy Cross

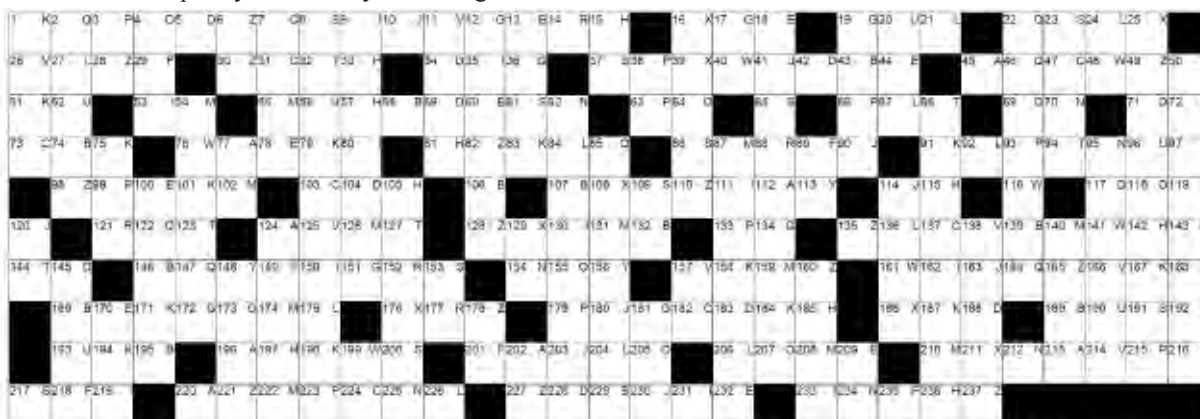
Contact: Jane Van Doren, HC Chemistry Dept., jvandore@holycross.edu

Double Crostic Contest

by Chris Morse

The puzzle yields two messages, one in the grid, and one down the first letters of clue answers. Solve the clues, and transfer the letters into the numbered boxes. As you see the message, you can also transfer letters back down below. The message is the instructions for this National Chemistry Week Contest. You qualify to enter if you are in grades 7 to

12. If you're younger than that, look at the word search puzzle grid. Follow the instructions, and **e-mail your contest entry to NCWpuzzles@yahoo.com**. Make sure to include your name, address, school, and grade. Entries will be judged and results will be posted later.



A. One-tenth of a lab

77 160 896 253 220 112 202 49 124

B. 6.022×10^{23} is named after him (2 words)

148 107 195 78 189 13 106 229 139 109 81 132 216 88

C. Binding site on DNA which aids in transcription

137 47 183 182 11 7 124 71

D. Electrochemical cell or fuel cell, e.g. (2 words)

103 54 117 285 5 39 228 104 100 81 195

E. Most like gold or sulfur in color

232 78 170 44 72 18 100 209 60

F. Units of force named for a British physicist

218 29 201 86 140 215 89

G. Element whose Latin name is stibium

181 56 151 12 172 17 131 19

H. Aum Shinskyo and many other users of chemical warfare, e.g.

195 189 33 115 157 87 142 136 01 19

I. $PV = nRT$ (3 words)

130 283 80 162 9 219 53 150 211 111 35

J. Opposite of reductive

114 180 41 170 10 90 203 161 210

K. The basis of many explosives, plastics, and varnishes derived from plants

194 51 167 75 138 1 83 184 91 198 101 187 75 171

L. SAT or GRE, e.g. (2 words)

27 156 226 84 175 11 192 67 204 92 24 206

M. Only winner of both the Chemistry and Peace Nobel Prizes (2 words)

102 108 84 150 125 140 55 222 131 82 178 210

N. Bitter alkaloid found in coffee, tea, and colas

24 144 76 134 214 212 229 89

O. Slang for a jail in the Old West

201 89 155 84 173 4 110 77

P. Heats of reactions at constant pressures

178 5 73 28 133 221 99 63 215 66

Q. North African country that exports phosphates

27 125 85 144 96 181 2

R. Word that is a pun for something ferric

152 88 177 14 123

S. The alchemists called this chemical oil of vitriol (2 words)

106 8 101 86 23 119 61 151 65 37 217 200

T. Disapproving interjection (hyphenated)

88 18 127 84 123 144

U. Overly ornate artistic style of the 18th century

28 193 72 191 56 20

V. The rare-earth metal used in YAG lasers

157 254 13 138 166 125 26

W. Another name for tungsten

78 48 198 163 143 116 60

X. The waste liquid phase from a chromatography column

108 178 186 215 125 34 16 20

Y. Makes a mistake

113 148 150 03

Z. Winner of the 2001 Nobel Prize in Chemistry (3 words)

98 108 135 100 145 80 80 87 4 178 221 927 151 88 110

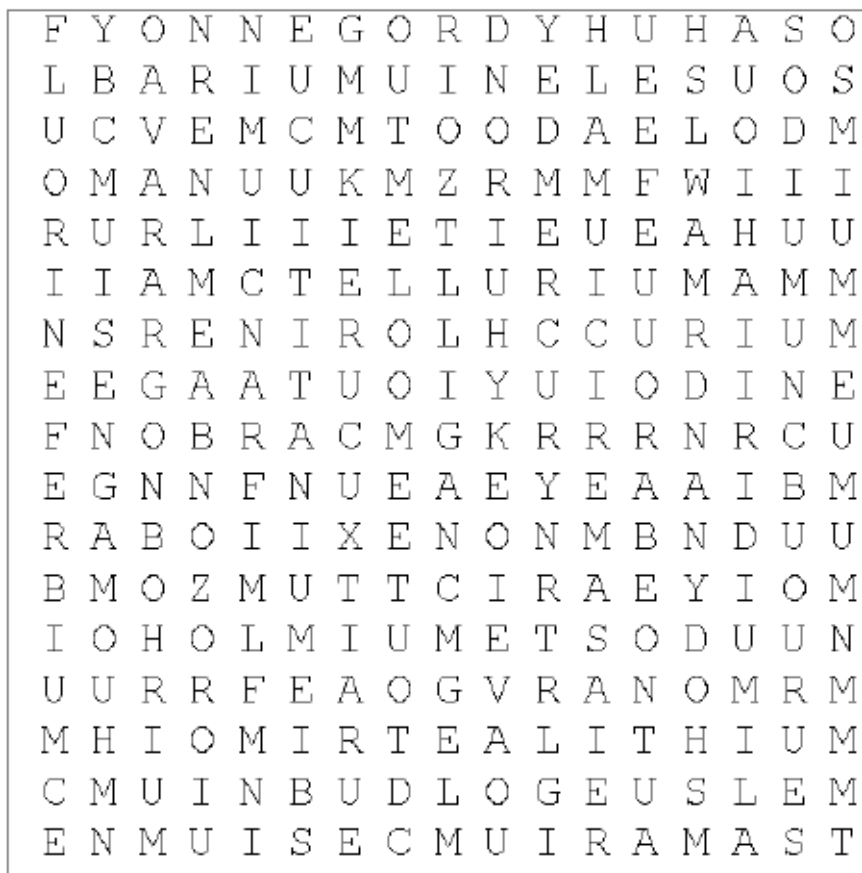
National Chemistry Week

Word Search Contest for Grades 1-6

by Chris Morse and Lance Nathan

Below is a normal word search containing the names of fifty-one different chemical elements. Once you have found all of them in the grid, the extra leftover letters in the grid will spell the instructions for what you need to do for this National Chemistry Week Contest. You can qualify to do this contest if you are in grades first through sixth. If you're

older than that, you should look at the double acrostic puzzle contest. Once you follow the instructions, e-mail your contest entry by November 15, 2006 to NCWpuzzles@yahoo.com. Make sure you include your name, address, school, and grade. Entries will be judged and results will be posted later.



- | | | | | |
|-----------|----------|-----------|------------|-----------|
| AMERICIUM | CARBON | FRANCIUM | LEAD | SAMARIUM |
| ANTIMONY | CERIUM | GERMANIUM | LITHIUM | SELENIUM |
| ARGON | CESIUM | GOLD | MAGNESIUM | SODIUM |
| ARSENIC | CHLORINE | HELIUM | MEITNERIUM | SULFUR |
| ASTATINE | CHROMIUM | HOLMIUM | MERCURY | TELLURIUM |
| BARIUM | CURIUM | HYDROGEN | NEON | TITANIUM |
| BERYLLIUM | DUBNIUM | INDIUM | NICKEL | URANIUM |
| BOHRIUM | ERBIUM | IODINE | NITROGEN | XENON |
| BORON | FERMIUM | IRIDIUM | OSMIUM | ZINC |
| BROMINE | FLUORINE | IRON | RADON | ZIRCONIUM |
| CALCIUM | | | | |

Annual Nucleus Buyers Guide 2006

Your Buyers Guide Listing is free! If you are not listed in this year's Guide, please contact Vince Gale at: Phone 781-837-0424, Email cust-svc@adelphia.net.

The purpose of the Guide is to provide a ready reference of companies providing products and services that are of interest to our American Chemical Society members. It is estimated that our members will purchase \$350,000,000 of products and services in the next twelve months. Our members will use this guide as a way of finding vendors who can service their needs when they are trying to solve a problem,

need equipment, restock inventory, or require consultant services, they will keep this reference until the next one is published.

This directory will be given to our 7,500 members for their use. This issue has excellent advertising value because it is kept and referenced for the full year.

If you wish to be in next year's Guide, please contact Vince Gale as noted above. For other advertising opportunities to American Chemical Society members visit --
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(713)957-2644 (voice)
(713)957-2644 (fax)
www.flash.net/~acqsol/
acqsol@flash.net
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Alconox Inc.

Janis Bolbrock
Director of Special Projects
30 Glen Street
White Plains, NY 10603
(914)948-4040 (voice)
(914)948-4088 (fax)
www.alconox.com
cleaning@alconox.com
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American Instrument

Marion Long
Sales
1023 Western Avenue
Haverhill, MA 01832
(978)521-2221 (voice)
(978)521-8822 (fax)
www.americaninstrument.com
marion@americaninstrument.com
114

Astec

Vicki Sutter
Vice President
PO Box 297, 37 Leslie Court
Whippany, NJ 07981
(973)428-9080 (voice)
(973)428-0152 (fax)
www.astecusa.com
info@astecusa.com
43,44,74B

Banner & Witcoff, Ltd.

Ernie Linek
Patent & Trademark Law
28 State Street, 28th Floor
Boston, MA 02109-1775
(617)720-9600 (voice)
(617)720-9601 (fax)
www.bannerwitcoff.com
Elinek@bannerwitcoff.com
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BioPro International Inc.

Rene Lohser
President
P.O. Box 156 / 265 Conklin St.
Farmingdale, NY 11735
(516)249-0099 (voice)
(516)249-0494 (fax)
www.biopro.com
rlhoser@biopro.com
14,95,112

Bioremediation Consulting Inc.

Sam Fogel
Vice President
39 Clarendon St
Watertown, MA 02472
(617)923-0976 (voice)
(617)923-0959 (fax)
www.bcilabs.com
bioremediation@bcilabs.com
17,23,90

Boston Analytical

Robert McBride
Operations Manager
8 Industrial Way—#D3
Salem, NH 03079
(603)893-3758 (voice)
(603)893-1268 (fax)
info@bostonanalytical.com
12C

Brookfield Engineering Lab Inc

Robert McGregor
Marketing Manager
11 Commerce Blvd
Middleboro, MA 02346-1031
(508)946-6200 (voice)
(508)946-6262 (fax)
www.brookfieldengineering.com
sales@brookfieldengineering.com
12

Brookhaven Instruments

Irene Mueller
Marketing Manager
750 Blue Point Road
Holtsville, NY 11742-1832
(631)758-3200 (voice)
(631)758-3255 (fax)
www.bic.com
imueller@bic.com
4,6A,12B

Bruker Daltonics Inc.

Joe Gill
Marketing/Sales Coordinator
40 Manning Road
Billerica, MA 01821
(978)663-3660 (voice)
(978)663-2471 (fax)
www.bdal.com
jmg@bdal.com
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173,178

Cambridge Isotope Laboratories

Tasha Agreste
Marketing Specialist
50 Frontage Road
Andover, MA 01810
(978)749-8000 (voice)
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www.isotope.com
tashaa@isotope.com
13,25A,28,29,35,35A,38,39,149,
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55 Commerce Road
Cedar Grove, NJ 07009
(973)239-6633 (voice)
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www.cargille.com
cargillelabs@aol.com
3,9,12,68,119A,144

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Michael Castagna
Principal
555 Canal St.
Manchester, NH 03101
(603)625-1912 (voice)
(603)641-6493 (fax)
www.castagnaconsultinggroup.com
michael@castagnaconsultinggroup.com
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Carsten Haber PhD
Principal Consultant
49 Oak Street
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www.analyticadvisor.com
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Christopher F. Paulik, MBA
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Dr. Zvi Blank
Director
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Parsippany, NJ 07054
(973)335-2254 (voice)
(973)335-0556 (fax)
calilabs.com
calilabs@earthlink.net
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Dr. Zvi Blank
President
1259 Route 46, Bldg. #4
Parsippany, NJ 07054
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Betty Shapiro
Office Manager
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(360)425-9096 (fax)
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301 Winter Street, Unit E
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(781)826-3456 (voice)
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(978)356-7449 (fax)

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(314)991-2834 (fax)
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Gail Johnson
Marcom Manager
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(610)954-0599 (fax)
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sales@gow-mac.com
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Daniel Fields
Director of Marketing
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(516)939-0555 (fax)
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(858)677-0240 (fax)
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yang@ht-labs.com
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William Huffman
Vice President
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Rick Felde
Agent

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Nancy Kawai, PhD
Marketing Manager
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(781)551-0283 (fax)
www.inphotonics.com
info@inphotonics.com
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Bob Kaufman
Vice President
11810 Borman Dr.
St. Louis, MO 63146
(314)991-1857 (voice)
(314)991-2834 (fax)
www.iqsynthesis.com
info@iqsynthesis.com
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Ted Davidson
Vice President
P.O. Box 367
Kingston, NJ 08528
(609)731-6915 (voice)
chem367@yahoo.com
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Scott Moe
President & CEO
365 Boston Post Rd., Unit 247
Sudbury, MA 01776
(774)232-0673 (voice)
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www.kopella.com
scottmoe@yahoo.com
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Herbert Gatti
President
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www.massvac.com
hrgatti@massvac.com
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Hiram Allen
Manager

P.O. Box 25067
Columbia, SC 29224-5067
(803)788-9494 (voice)
(803)788-9419 (fax)
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sales@matrixscientific.com
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Erik Schoeffel
Marketing Manager
7A Stuart Road
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(978)250-8625 (fax)
www.mcphersoninc.com
mcp@mcphersoninc.com
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David Wagner, Ph.D.
President
460 Amherst Street
Nashua, NH 03063
(603)598-6960 (voice)
(603)598-6973 (fax)
david@metisol.com
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Columbus, OH 43240
(800)574-8147 (voice)
(614)438-4871 (fax)
www.mt.com/na
chellsea.mastroine@mt.com
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James Ficca Jr.
President
3815 Lancaster Pike
Wilmington, DE 19805
(302)998-1184 (voice)
(302)998-1836 (fax)
www.micronanalytical.com
micronanalytical@compuserve.com
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Lisa Robillard
Dir of Corporate Communication
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mks@mksinst.com
12D,86,111,124,137,138,172

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info@molknow.com
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Northern Analytical Laboratory

Dick Guidoboni
President
23 Depot Street
Merrimack, NH 03054
(603)429-9500 (voice)
(603)429-9471 (fax)
www.northernanalytical.com
nalabs@aol.com
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Lawrence Byrnes
Lab Mgr. & Research Director
3551 Winding Road
Kintnersville, PA 18930-9543
(610)346-8660 (voice)
(610)346-7571 (fax)
www.eclipse.net/~numare/
numare@eclipse.net
12H

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Frances Shen
Vice President
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San Diego, CA 92121
(858)793-6057 (voice)
(858)793-2607 (fax)
NuMegalab@aol.com
12H

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Howard Sard
Vice President
240 Salem Street
Woburn, MA 01801
(781)932-4142 (voice)
(781)933-6695 (fax)
www.organixinc.com
sard@organixinc.com
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James Jacob
President
11 Grandview St., Unit 8
Coventry, RI 02816
(401)826-7240 (voice)
(401)826-7315 (fax)
www.organomed.com
info@organomed.com
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President
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Coraopolis, PA 15108
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(724)457-1214 (fax)
www.pacslabs.com
hnpacs@aol.com
179B

PCI Synthesis

Kenneth Drew, Ph.D.
Manager Business Development
88 Jackson Road
Devens, MA 01434
(978)772-2111 (voice)
(978)862-0036 (fax)
ken.drew@pcisynthesis.com
146

Pelican Analytics

Dr. John Fiorino
Technical Director
11 Deepark Drive STE #203
Monmouth Junction, NJ 08852
(732)274-2600 (voice)
(732)274-0800 (fax)
www.pelicananalytics.com
jafiorino@pelicananalytics.com
22,23,24,151

Poly(Chem-Tech)

Daniel Kruh, Ph.D.
President
8 Braddock
East Brunswick, NJ 08816
(732)238-3182 (voice)
(732)238-3182 (fax)
dankruh@aol.com
76

Polymer Processing Institute

Theodore Davidson
Manager of Special Projects
218 Central Avenue
GITC Bldg., Ste. 3901
Newark, NJ 07102
(973)642-4582 (voice)
(973)642-4594 (fax)
www.polymers-ppi.org
tdavidson@polymers-ppi.org
75

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Dr. Saroj Roy
President
10 Powers Street
Leominster, MA 01453
(978)466-7978 (voice)
(978)466-8084 (fax)
www.polyorginc.com
sarojroy@polyorginc.com
27A,28,34,35A,35B,146

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Joseph Thomas
Vice President
27 Westview Road
Brookline, NH 03033
(603)673-5690 (voice)
(603)673-5766 (fax)
www.quartzplus.com
jthomas@quartzplus.com
116

Robertson Microlit Labs

Rudolf Oeckinghaus Phd
President
PO Box 927, 29 Sampson Ave.
Madison, NJ 07940
(973)966-6668 (voice)
(973)966-0136 (fax)
www.robertson-microlit.com
admin@robertson-microlit.com
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Christopher Christuk
Manager
10 Electronics Avenue
Danvers, MA 01923
(978)739-4883 (voice)

(978)739-5640 (fax)
www.rowleybio.com
customerservice@rowleybio.com
27A,28,30,39

Rudolph Instruments

Dr. Kumar Utukuri
President
400 Morris Avenue, #120
Denville, NJ 07834
(888)478-3657 (voice)
(973)983-6290 (fax)
www.rudolphinst.com
Sales@rudolphinst.com
8,24,148

Schwarzkopf Microanalytical

Florence Wohl
Executive V.P.
5619 37th Ave.
Woodside, NY 11377
(718)429-6248 (voice)
(718)429-5785 (fax)
schwarzkopfmicro@aol.com
schwarzkopfmicro@aol.com
20,21A,22,23,24,65A,74B,77,80,
80B,90,145,147,151

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Nancy McDonald
Administrative Asst.
2612-18 W. Nelson
Chicago, IL 60618
(773)267-1129 (voice)
(773)267-1218 (fax)
www.scientificbindery88yrs.com
skybind@att.net
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Julie Mulligan
Marketing Manager
10 Technology Dr.
Lowell, MA 01851
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labproducts.water@siemens.com
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Advertising Manager
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fluorescence@jobinyvon.com
166,167,168,174

Strem Chemicals, Inc.

Peter Chu, PhD
Sales & Marketing Manager
7 Mulliken Way Dexter Inds. Pk
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(978)499-1600 (voice)
(978)465-3104 (fax)
www.strem.com
info@strem.com
27

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Stan Kovall
Director of Marketing
104 Anaway St. 2nd Flr East
Fall River, MA 02721
(508)675-4977 (voice)
(508)675-3272 (fax)
skovall@txcnology.com
164,166,178

Toxikon Corporation

Fred Deckert
Dir Analytical & Toxicology
15 Wiggins Avenue
Bedford, MA 01730
(781)275-3330 (voice)
(781)271-1136 (fax)
www.toxikon.com
fred.deckert@toxikon.com
13A

Transene Co. Inc.

Christopher Christuk
Manager
10 Electronics Avenue
Danvers, MA 01923
(978)777-7860 (voice)
(978)739-5640 (fax)
christopher@transene.com
33

TRI/Princeton

Gail Eaton Ph.D.
President
601 Prospect Ave., PO Box 625
Princeton, NJ 08542-0625
(609)924-3150 (voice)
(609)683-7149 (fax)
www.triprinceton.org
info@triprinceton.org
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John Kilby
Marketing Manager
19 Ox Bow La.
Summit, NJ 07901
(908)273-0440 (voice)
(908)273-2956 (fax)
www.iconisotopes.com
iconisot@juno.com
21A,38,121

Waters Corporation

Joanne Fortunato
Technical Sales Rep.
34 Maple Street
Milford, MA 01757
(508)282-0137 (voice)
(508)634-3305 (fax)
www.waters.com
joanne_fortunato@waters.com
44,46,172

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Joseph Bevacqua
VP-Sales
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- 129-Pumps**
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- 133-Spectrophotometer cells**
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- 135A-UV-visible lamps**
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Bruker Daltonics Inc.
Rudolph Instruments
- 149-Standards**
Cambridge Isotope Laboratories

QUALITY CONTROL

- 151-Quality control**
Pelican Analytics
Schwarzkopf Microanalytical

RADIATION EQUIPMENT

- 152-Radiation equipment**
Bruker Daltonics Inc.

DOCUMENTATION

- 163-Stock lab books**
Scientific Bindery

SPECTROMETERS

- 164-Atomic absorption instruments**
Technology Exchange Corp.

- 166-Emission**
Hellma Cells
Spex Fluorescence (Jobin Yvon)
Technology Exchange Corp.

- 167-Fluorescence**
McPherson, Inc.
Spex Fluorescence (Jobin Yvon)

- 168-Gratings**
Hellma Cells
Spex Fluorescence (Jobin Yvon)

- 169-IR**
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- 171-IR & UV cells**
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- 172-Mass**
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- 172A-NIR spectrophotometers**
Control Development

- 173-NMR**
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- 174-Raman**
InPhotonics
Spex Fluorescence (Jobin Yvon)

- 176-UV visible**
Hellma Cells

- 178-X-ray fluorescence**
Bruker Daltonics Inc.
Technology Exchange Corp.

EDUCATION & PUBLICATIONS

- 179B-Training & education**
PACS Testing & Consulting

SUPPLIES

- 181-Solvents & thinners**
Cambridge Isotope Laboratories

To be in next year's Guide, contact Vince Gale at:
phone: 781-837-0424,
fax: 781-837-1453,
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BUSINESS DIRECTORY

New Members

Invitation to attend a meeting

You are cordially invited to attend one of our upcoming Section meetings as a guest of the Section at the social hour and dinner preceding the meeting.

Please call Marilou Cashman at 800-872-2054, 508-653-6329 or: Mcash(at)aol.com by noon of the first Thursday of the month, letting her know that you are a new member. ◇

Calendar

Continued from page 20

Oct 26

Prof. Robert Weiss (Univ. of Conn.)
"TBA"

Univ. Mass (Lowell), Olney Hall OH 218.
4:00 PM

Prof. Alben Ivanisevic (Purdue Univ.)

"Fabrication and Characterization of Biological and Chemical Architectures"

Boston College, Merkert Center Rm. 130
4:00 PM

Oct 30

Serono Symposium.

E.J. Corey, Harvard University;

"Chiral Cations as Catalysts for Enantioselective Synthesis Pathways and Applications,"

Christopher T. Walsh, Harvard Medical School

"Enzymatic Construction and Transfer of Pyrroles in Natural Product Biosynthesis,"

Serono Speaker, TBA.

Harvard University, Pfizer Lecture Hall, 12
Oxford St., Cambridge

2:30 PM

Oct 31

Prof. Melanie S. Sanford (Univ. Michigan)

Boston College, Merkert Center Rm. 130

4:00 PM

Prof. Martin Case, (Univ. of Vermont)

"Metal Directed Protein Assembly"

Tufts University, Pearson Chemistry Building,
Room P106

4:30 PM

Please check NESACS website and university websites for late breaking changes.

All notices for the Calendar should be sent to

Sheila Rodman

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FDA Inspected

Calendar

Oct 3

Prof. Mark Hersam (Northwestern Univ.)
"Probing Chemistry and Electronic Structure at the Single Molecule Level with Scanning Tunneling Microscopy"
Tufts University, Pearson Chemistry Building, Room P106
4:30 PM

Prof. Hisashi Yamamoto (Univ. of Chicago)
2006/2007 Novartis Lecturer
Boston College, Merkert Center Rm. 130
4:00 PM

Oct 4

Dr. David Beveridge, (Wesleyan University)
"Do Collective Atomic Fluctuations Account for Cooperative Effects? Molecular Dynamics Studies of the U1A-RNA Complex"
Northeastern University, 129 Hurtig Hall.
12 NOON

Dr. Scott E. Schauss (Boston University)
"TBA"
U Mass (Dartmouth) Building Group II, Room 115 Info: 508-999-8232
4:00 PM

Oct 5

Prof. Randall Lee, (Univ. of Houston)
"Wettability and Friction of Fluorocarbon Interfaces"
U. Mass. (Lowell), Olney Hall OH 218.
4:00 PM

James Skinner (Univ. of Wisconsin)
"Vibrational spectroscopy, molecular dynamics, and hydrogen bonding in water and aqueous solutions"
Woodward Lecture Series., Harvard-MIT Physical Chemistry Seminar.
Harvard University, Pfizer Lecture Hall, 12 Oxford St., Cambridge
5:00 PM

Prof. Christopher J. Bardeen, (Univ. of California)
"Exciton Dynamics and Transport in Organic Materials"
Boston College, Merkert 130
4:00 PM

Jim Marshall (Univ. of North Texas)
"Rediscovery of the Elements"
Univ. New Hampshire, Iddles Auditorium, Room L103
11:10 AM

Oct 10

Prof. William Herndon (Univ. of Texas, El Paso)
"Verifiable Aromatic Stabilization Energies: From Benzene to Bucky Balls and Carbon Nanotubes"
Univ. of New Hampshire, Iddles Auditorium, Room L103
11:10 AM

Prof. Vlad Sadchenko (George Washington University)
"Fast Thermal Desorption Spectroscopy Studies of Dynamics and Reactions in Ice"
Tufts University Pearson Chemistry Building, Room P106
4:30 PM.

Oct 11

Michael Maroney (Univ. Mass., Amherst)
Harvard/MIT Inorganic Seminar:
"Cysteine dioxygenase: A theme and variations"
Harvard Univ. Mallinckrodt Lab, Pfizer Lecture Hall, Lower level
4:00PM

Dr. Joseph Sadighi, (MIT)
"N-Heterocyclic Carbene Complexes of the Group 11 Metals: Synthetic and Catalytic Studies." UMass Dartmouth Building Group II, Room 115 Info: 508-999-8232
4:00 PM

Oct 12

Stefan Hell, (Max Planck Institut, Gottingen)
TBA (Woodward Visiting Scholar)
Harvard University, Pfizer Lecture Hall, 12 Oxford St., Cambridge
4:00 PM

Marion Muskiewicz, (Univ. of Mass., Lowell)
"Library Resources for Polymer Science"
Univ. Mass (Lowell), Olney Hall OH 218.
4:00 PM

Oct 16

A. D. Little Inorganic Seminar:
Jean-Michel Saveant (University of Paris, France)
"Breaking Bonds with Electrons"
MIT, Building 6, Room 120
4:00-5:30PM

Oct 17

Prof. Geert-Jan Boons (Univ. of Georgia)
"A Fully Synthetic Three-Component Cancer Vaccine"
Tufts University Pearson Chemistry Building, Room P106
4:30 PM

Matomu Kanai, (University of Tokyo)
"TBA." (Merck-Banyu Lecture)
Harvard University, Pfizer Lecture Hall, 12 Oxford St., Cambridge
4:15 PM

Prof. Jinqun Yu (Brandeis Univ.)
Boston College, Merkert Center Rm. 130
4:00 PM

Oct 18

A.D. Little Inorganic Seminar
Jean-Michel Saveant (University of Paris, France)
"Electrochemical Approach to Proton-Coupled Electron Transfers"
MIT Building 6, room 120
4:00-5:30 PM

Dr. Isabella Lagadic (Univ. Connecticut, Storrs)
"Nanoreservoirs and Nanozippers"
UMass Dartmouth Building Group II, Rm. 115
Info: 508-999-8232
4:00 PM

Dr. Joe Zaia, Boston University, Boston MA
Title: "Glycomics of Tissue Using Tandem Mass Spectrometry"
Northeastern University, 129 Hurtig Hall.
12 NOON

Oct 19

Prof. Glen Miller, (Univ. of New Hampshire)
"Fullerenes, SWNTs, Buckyonions and Nanowhiskers: Research at the Border between Organic Chemistry and Nanotechnology"
Univ. Mass (Lowell), Olney Hall OH 518.
4:00 PM

Oct 20

Prof. Motomu Kanai (Univ. of Tokyo, Japan)
Boston College, Merkert Center Rm. 130
4:00 PM.

Oct 24

Prof. Richard Johnson (Univ. of New Hampshire)
"Mechanisms of Fragmentation in Carbohydrate Mass Spectrometry and Other Tales of High Energy Molecules"
Tufts University, Pearson Chemistry Building, Room P106
4:30 PM.

Doug Rees (HHMI and California Institute of Technology)
"TBA" (Student-sponsored Chemistry Seminar)
Harvard University, Pfizer Lecture Hall, 12 Oxford St., Cambridge
4:15 PM

John Seelenbinder – Smiths Detection
"Portable Spectroscopy Technology for Homeland Defense"
Society for Applied Spectroscopy, Hampton Inn, Speen St. Natick, MA
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Oct 25

Dr. Sunil Saxena, (Univ. of Pittsburg, Pittsburg PA)
"ESR Spectroscopic Rulers: A New Spin on Protein Dynamics"
Northeastern University, 129 Hurtig Hall.
12 NOON

Dr. Michael Knapp, (U.Mass, Amherst)
"TBA"
UMass Dartmouth Building Group II, Rm. 115
Info: 508-999-8232
4:00 PM

Prof. Bernhard Breit (Albert Ludwigs Universität Freiburg, Germany)
Boston College, Merkert Center Rm. 130
4:00 PM