

THE NUCLEUS

Summer 2001

Vol. LXXIX, No. 10

NERM 2001

*Program
Places to Visit
Eating Out*

Book Review

*A Chemical History Tour
by Arthur Greenberg*

Short Course

*Pharmacology for Chemists
October 10-12, 2001*

Councilors' Reports

San Diego National Meeting



Eastern Analytical Symposium

Full Page Ad Appears here

Ad # EAST 672N

Strip Paper Repro supplied

The Northeastern Section of the American Chemical Society, Inc.

Office: Marilou Cashman, 23 Cottage St., Natick, MA 01760. 1-800-872-2054 (Voice or FAX) or 508-653-6329.

e-mail: mcash0953@aol.com

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

NESACS Homepage:

http://www.NESACS.org

Frank R. Gorga, Webmaster

Washington, D.C. ACS Hotline:

1-800-227-5558

Officers 2001

Chair:

Timothy B. Frigo

Advanced Magnetics, Inc.

61 Mooney St., Cambridge, MA 02138

617-497-2070x3007; tfrigo@hotmail.com

Chair-Elect:

Morton Z. Hoffman

Chemistry Department, Boston University

Boston, MA 02215-2507; 617-353-2494

hoffman@chem.bu.edu

Immediate Past Chair:

Doris Lewis

Chemistry Dept., Suffolk University

41 Temple St., Boston, MA 02114

617-573-8546; dlewis@cas.suffolk.edu

Secretary:

Michael Singer

Sigma RBI

1 Strathmore Rd.

Natick, MA 01760-2447

781-994-0523; fax: 781-994-0677

SingerChem1@aol.com

Treasurer:

James Piper

Simmons College, 300 The Fenway

Boston, MA 02115, 617-521-2722

Auditor:

Anthony Rosner

Archivist:

Myron Simon

20 Somerset Rd.

Newton, MA 02465; 617-332-5273

romysimon@mindspring.com

Trustees:

Esther A.H. Hopkins, Michael E. Strem,

Joseph A. Lima

Councilors:

Term ends 12/31/2001

Thomas R. Gilbert

Michael J. Hearn

Arlene Wick Light

Michael Singer

Term Ends 12/31/2002

Mary T. Burgess

Michaeline F. Chen

Doris I. Lewis

Julia H. Miwa

Term Ends 12/31/2003

Catherine E. Costello

William Klemperer

Truman Light (to 12/31/01)

Dorothy J. Phillips

Alternate Councilors:

Term ends 12/31/2001

Michael P. Filosa

Morton Z. Hoffman

Donald O. Rickter

Sophia R. Su

Term ends 12/31/2002

Michael J. Dube

Jean Fuller-Stanley

Patrick M. Gordon

John L. Neumeayer

Term ends 12/31/2003

Arno H.A. Heyn

Wallace J. Gleekman

Alfred Viola

Derk A. Wierda

All Chairs of standing Committees, the editor of THE NUCLEUS, and the Trustees of Section Funds are members of the Board of Directors. Any Councilor of the American Chemical Society residing within the section area is an ex officio member of the Board of Directors.



Contents

Chemistry at the University of New Hampshire _____ 4

by Clarence J. Murphy and Howard R. Mayne

NERM 2001

Events, Programs _____ 5

Invited Speakers _____ 9

Places to Visit in the NH-Maine Seacoast Area _____ 13

Eating Out _____ 16

Short Course _____ 15

Pharmacology for Chemists; October 10-12, 2001, Northeastern University

ISOM XIV _____ 18

International Symposium on olefin metathesis; August 5-9 at M.I.T.

Book Review _____ 18

"A Chemical History Tour" by Arthur Greenberg, reviewed by David L. Adams

Councilors' Reports _____ 24

Report on the Council Meeting on April 4, 2001, San Diego, CA

Historical Notes _____ 24

Cover: Thompson Hall, University of New Hampshire, Durham, NH

Deadlines: September issue: July 20, 2001

October issue: August 29, 2001

THE NUCLEUS

The Nucleus is distributed to the members of the Northeastern Section of the American Chemical Society, to the secretaries of the Local Sections, and to editors of all local A.C.S. Section publications. Forms close for advertising on the 1st of the month of the preceding issue. Text must be received by the editor six weeks before the date of issue.

Editor: Arno Heyn, 21 Alexander Rd., Newton, MA 02461, Tel: 617-969-5712, FAX: 617-527-2032; e-mail: aheyn1@juno.com

Associate Editor: Myron S. Simon, 20 Somerset Rd., W. Newton, MA 02465, Tel: 617-332-5273

Board of Publications: Marietta H. Schwartz (Chair), Patrick M. Gordon, Frank R. Gorga, E. Joseph Billo (Consultant)

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: 781-837-8792

Contributing Editors: Mukund Chorghade, Patricia Hamm, Features; Edward Atkinson, History of Chemistry; Maryann Solstad, Health; Dennis Sardella, Book Reviews; Marietta H. Schwartz, Software Reviews; E. Joseph Billo, Puzzles.

Calendar Coordinator: Donald O. Rickter, e-mail: 72133.3015@compuserve.com

Proofreaders: E. Joseph Billo, Donald O. Rickter, M.S. Simon

Webpage: Webmaster: Frank R. Gorga, fgorga@bridgew.edu

Asst. Webmasters: Terry Brush, tbrush@mediaone.net

Kurt Heinselman, heinslmn@earthlink.net

Copyright 2001, Northeastern Section of the American Chemical Society, Inc.

Chemistry at the University of New Hampshire

Clarence J. Murphy,
Professor Emeritus, Department of
Chemistry, East Stroudsburg Univer-
sity of Pennsylvania

Howard R. Mayne,
Department of Chemistry, University
of New Hampshire

The Hanover Years

The University of New Hampshire traces its origins to the acceptance of the Morrill Act by the New Hampshire Legislature in June 1866. This led to the establishment of the New Hampshire College of Agriculture and Mechanic Arts in Hanover, in association with Dartmouth College. The first faculty member of the college in 1868 was Ezekiel W. Dimond, who was appointed professor of general and applied chemistry. An 1865 graduate of Middlebury College, Dimond was synonymous with the institution in its early days. Not only was he professor of chemistry, he was also the business manager, architect, supervisor of construction, and lobbyist in the state legislature. His efforts led to the construction of Culver Hall, which contained a chemistry laboratory, described in 1874 as the only one in the state. He also developed and taught courses in chemistry to students from New Hampshire College and Dartmouth College. The Department of Chemistry is thus the only department that has existed for the entire history of the University of New Hampshire. Dimond served as professor of chemistry until his untimely death, at the age of 40, in 1876.

Benjamin T. Blanpied succeeded Dimond as Professor of Chemistry and head of the department in 1877. In 1889 Fred W. Morse succeeded Blanpied as Professor of Chemistry and department head. In 1891 he was appointed vice-director of the Agricultural Experiment Station in addition to his duties in Chemistry. Charles L. Parsons, who had joined the department in

1888 was appointed Professor of Chemistry in 1891 and took over many of Morse's teaching duties.

During this period the department and the college continued to grow. The first foreign student at the college received a degree in chemistry in 1886 and the first female student, chemistry major, Lucy Swallow, was admitted in 1891. The first B.S. degree in chemistry was awarded in 1893. The first B.S. research thesis was by C. L. Hubbard (1893), entitled "The Soldering of Aluminium". (The British spelling is typical of several of the early research theses in the department.)

Conant Hall and the Move to Durham

While the New Hampshire College of Agriculture and Mechanic Arts was still located on the campus of Dartmouth College at Hanover, the State of New Hampshire was bequeathed the entire fortune of a Durham farmer, Benjamin Thompson. He specified that an agricultural college be founded on his property in Durham. The state accepted the bequest and in 1891, preparations began for the college to move to Durham. Charles Parsons designed the new chemistry laboratories in Conant Hall, which was constructed during 1892-1893 at a cost of

Next Meeting

*Joint Meeting with the Rhode
Island ACS Section*

**September 13, 2001
Bristol Community College,
Fall River, MA**

Prof. Richard M. Stratt (Brown University) will speak on his research on the dynamics of ultrafast processes in liquids and the mechanism of solvation.

Details will be in the September issue
◇

Corporate Patrons

Alfa Aesar, a Johnson Matthey Company
Hoechst Marion Roussel Co.
Pharm-Eco Laboratories, Inc.
Physical Sciences, Inc.
Polaroid Corporation
Strem Chemicals, Inc.

Corporate Sponsors

Aerodyne Research, Inc.
AstraZeneca R&D
Borregaard Synthesis, Inc.
Bristol-Myers Squibb
Cambridge Isotope Labs
Consulting Resources Corporation
Dike, Bronstein, Roberts &
Cushman, LLP
Houghton Chemical Corp.
JEOL, USA, Inc.
MassTrace, Inc.
New England Biolabs
Organix, Inc.
Pfizer, Inc.
Research Biochemicals Int'l
Zymark Corporation

\$40,000 to house the Department of Chemistry and other science departments. Conant Hall is now one of the three surviving original buildings of UNH at Durham.

In 1906 the first Master of Science degree in Chemistry was awarded to

continued on page 10

Footnote to "The Jungle Story"

In April, just after publication of "The Jungle Story" in the April issue of *The NUCLEUS*, Richard Schultes, the subject of the story, died at age 86. He had been suffering from Alzheimer's disease for some time and therefore would not have been able to appreciate the story in the April issue, even if he had received it.

He is survived by his wife in Waltham who had provided details for the article. ◇



AMERICAN CHEMICAL SOCIETY



30th Northeast Regional Meeting

June 24-27, 2001

The 30th Northeast Regional Meeting, hosted by the ACS Northeastern Section, will be held in the Memorial Union Building (MUB) at the University of New Hampshire, Durham, June 24-27, 2001. The meeting will feature general sessions, topical symposia, and several workshops.

For information on registration and accommodation, visit: www.unh.edu/chemistry/NERM or contact Howard Mayne, (603) 862-1550, email: howard.mayne@unh.edu.

Special Events

The conference opens with a **complimentary reception Sunday evening, June 24, at 6:00 PM** in the Strafford Room of the MUB.

On Monday, June 25, there will be a **complimentary luncheon and social event for Alpha Chi Sigma**. Contact Dr. Joe Geiser at jgeiser@cisunix.unh.edu for more information.

Two Student Affiliate luncheon panel discussions will be held. The first, on Monday, June 25, is entitled "After the BS". Representatives from academia, industry, and government will answer questions on opportunities for people who have – or soon will have — a baccalaureate degree. The second, on Wednesday, June 27, will feature representatives from successful SAACS chapters across the region in a panel discussing *Running an SA Chapter*.

The Northeast Regional Award for Excellence in Teaching High School Chemistry will be made Monday night, 6:30 PM, in the Strafford Room. This year's award will be presented to Susan M. Temme, who has taught at Cheshire High School in Cheshire, Connecticut since 1987. She began her career in 1973. Since 1990 she has served as coach and mentor of the Cheshire High School Chemistry Olympiad Team, and has received three Outstanding Teacher Awards—one from the University of Chicago and two from MIT. An ACS officer will be the keynote speaker.

A complimentary **District Director's Breakfast**, hosted by District I Director Anne O'Brien, will take place Tuesday from 7:30 – 8:30 AM. All NERM 2001 attendees are invited to hear about current Board actions and to voice any ideas, questions, and/or concerns about the ACS. In addition, sections celebrating significant anniversaries this year will be honored at this breakfast. Frank Walworth, ACS Staff Coordinator for the ACS 125th Anniversary celebration this year, will present commemorative certificates to those local sections. During the meeting, Mr. Walworth will host a display of historical data, along with a special collage that was designed to capture the history of the ACS in an encapsulated format, to commemorate the 125th anniversary.

A complimentary barbecue lunch for all participants will be held Tuesday at noon.

The 2001 Industrial Innovation Awards Ceremony will be held Tuesday at 6:00 PM in the Oak Room on campus. Recipients will present a talk on their innovations during a special awards symposium at 1:30 PM that day. Poster exhibits and tabletop displays of the top innovations will be in the exhibit hall throughout the meeting. The purpose of this awards program is to recognize industrial chemists and chemical engineers in our region for their inventions and discoveries that have contributed to the commercial success of their companies and to the good of the community.

Honoring a UNH Colleague

NERM 2001 has two special events planned to honor one of its own: A symposium and dinner for Dr. Robert E. Lyle. The *Symposium to Honor Robert E. Lyle* will take place Monday, June 25 and Tuesday, June 26. The dinner will be held at the Three Chimneys Inn on Tuesday at 6:30 PM, and reservations are required.

Dr. Lyle served on the faculty of the University of New Hampshire from 1951 to 1977. During that period, his research group carried out work of outstanding quality. Many of his former colleagues, students, and friends will be on hand to pay tribute to this extraordinary man and his achievements.

Workshops

The ACS Career Resource Center, featuring the Regional Employment Clearing House (RECH), will offer **career workshops** and mini-sessions, résumé review appointments, and a resource library, from Monday June 25 – Wednesday June 27, 8:30 AM – 5:00 PM. ACS members and national and student affiliates interested in registering as job candidates may obtain information from the ACS Fax-On-Demand service at 877-227-0505; the Career Services home page at www.acs.org/careers; or by phone at 800-227-5558. Résumés will be accepted from candidates not able to attend the meeting. The deadline for returning registrations to the ACS Department of Career Services is June 11.

Employers interested in recruiting on site or posting positions in absentia may obtain registration and fee information by contacting ACS Career Services at the aforementioned numbers.

ACS Career Services will offer workshops covering the components of managing an effective job search on Monday, June 25 and Tuesday, June 26. There is no cost and no pre-registration is required. These sessions include *Targeting the Job Market* (Monday 8:30 AM), *Résumé Preparation* (Monday 9:45 AM), *Interviewing Skills* (Monday 11:00 AM), and *Career Transitioning* (Tuesday 9:00 AM). In addition, individual 25-minute résumé reviews will be offered from 8:30 AM – 5:00 PM on Monday through

continued on page 6

Northeast Regional meeting

Continued from page 5

Wednesday. Bring a copy of your résumé. Appointments will be made at the RECH registration desk.

A one-day workshop on **Laboratory Safety** will be held Sunday. In addition to an intensive review of the fundamentals of lab safety and effective lab safety programs, the program will cover: the scope of the problem; accidents; legal aspects; planning for emergencies; handling, storage, and disposal of chemicals; biological and animal hazards; eye and face protection; disposal of chemicals; electrical safety, and safety program planning. Participants receive a 220-page seminar notebook and other handout materials. The fee is \$200 in advance or \$250 onsite.

A workshop on **Labworks®** software will be held Monday afternoon from 1:30 – 5:00 PM in Parsons Hall on the university campus. Also on Monday afternoon, Morton Hoffman (Boston University) and Jerome Mullin (University of New England) will conduct an ACS **College Chemistry Consultants Service (C₃S) Workshop**. They will discuss the range of consulting services available from C₃S for two- and four-year colleges, and demonstrate to university chemistry faculties and chairs how their departments might benefit from guidance, review, and/or assistance in the development of new programs, ACS-CPT departmental accreditation and program certification, and revitalization.

C3S is a service of the ACS Education and International Activities Division.

The ACS Office of Research Grants and Awards will present a workshop on *Writing Excellent Research Proposals* Tuesday afternoon. On Tuesday afternoon, Morton Hoffman (Boston University) will conduct a hands-on workshop for teachers of general chemistry entitled *New Strategies for the Teaching of General Chemistry*. Attendees will examine the use of group activities, calculator-free exams and quizzes, reading and writing assignments, reading notebooks, peer-led team learning, and performance-enhancing techniques.

There will be a one-day workshop on **minority affairs** on Wednesday. In the morning session, JoAnn Moody of the New England Board of Higher Education and Sheila Browne of Mt. Holyoke College will present *Faculty Mentoring and Departmental Good Practices: How to Retain Non-Majority Students*. The afternoon workshop, *ACS Programs You Can Use to Attract and Retain Minority and Younger Members*, will be given by the ACS Department of Diversity Programs. This session will inform participants of the ACS programs available to increase departments' enrollment, retention, and mentoring of minority and younger members.

Exhibits

More than 15 vendors will have displays in the exhibit area. Exhibits will be open Monday and Tuesday. Vendors wish-

Lab support

1/2 page Ad Appears here

Ad # 446N

Strip Repro supplied

Northeast Regional meeting

Continued from page 6

ing to participate should contact Kathy Gallagher (ksg@cisunix.unh.edu).

Travel & Lodging

Directions to the conference can be found at the NERM 2001 website listed earlier. Hotel and motel accommodation is plentiful near the conference site, and contact information is available at the website.

Dormitory accommodations are available on the University of New Hampshire campus. Reservations can be made at the website. Students can be accommodated for as little as \$21 per night. (Certain restrictions apply). Other rooms are available at a daily cost of \$36.50 single and \$27.50 double.

The ACS Meetings Department has entered into an agreement with *Association Travel Concepts (ATC)* to help facilitate **travel arrangements** for attendees to the ACS meetings. ATC is a travel agency that works exclusively with the association market. In addition to providing reservation assistance on our official air carriers, ATC will “fare shop” all airlines to find the absolute lowest fare. To book reservations, or for more information about ATC, call 1-800-458-9383

American Airlines, Delta Air Lines, and US Airways have been selected as the official co-carriers for the 2001 ACS MEETING TRAVEL PROGRAM. All three carriers offer:

- 5% off any applicable published excursion domestic fares (10% off if purchased 60 days or more before travel - special conditions apply)
- 10% off unrestricted coach fares (15% off if purchased 60 days or more before travel - special conditions apply)
- special domestic fares that are less than the unrestricted fares and do not require a Saturday night stay

To make reservations or for more information, call:

AMERICAN: 1-800-433-1790 from 7AM - 12 MID-NIGHT, EST
Refer to Star File Number: 10079

DELTA: 1-800-241-6760 from 8 AM - 11 PM, EST
Refer to File Number: 157113A

US Airways: 1-877-874-7687 from 8 AM - 9 PM, EST
Refer to Gold File Number: 80191706

Avis and Hertz are offering discounted rates on rental cars for the 2001 ACS MEETING TRAVEL PROGRAM. To make reservations, or for more information:

AVIS: 1-800-331-1600
Refer to ID Code: B923099

HERTZ: 1-800-654-2240
Refer to ID Code: CV 022M0293

Registration

On-site registration and distribution of program books and badges will take place on the 2nd floor landing of the Memorial Union Building from noon until 6:00 PM on Sunday, from 7:30 AM – 5:00 PM on Monday and Tuesday and from 7:30 AM – 12 Noon on Wednesday.

Advance registration forms are available online at: <http://www.acs.org/meetings/regional/calendar.html>

These must be submitted to the ACS Office of Regional Meetings *no later than June 3*. Full payment, either check or credit card number, must accompany the form. Purchase orders will not be accepted. Requests for refunds must be made in writing to Evangelos Koutalas, ACS Office of Regional Meetings, 1155 16th St. NW, Washington, DC 20036; e_koutalas@acs.org. Full refunds will be issued until June 3; between June 4 and June 23, a \$20 processing fee will be assessed. No refunds will be issued after June 23.

Special Events

Sunday

4:00PM – 7:00 PM – Registration

9:00 AM - 4:30 PM – Workshop: Laboratory Safety

9:00 AM - 5:00 PM – Workshop: High School Teachers

6:00 PM - 8:00 PM – Reception and Mixer

Monday

7:30 AM - 5:00 PM – Registration

8:30 - 9:30 AM – Workshop: Targeting the Job Market

9:45 - 10:45AM – Workshop: Résumé Preparation

11:00 AM - Noon – Workshop: Interviewing Skills

Noon – 1:30 PM – Student Luncheon, “After the BS”

1:30 – 5:00 PM – Workshop: Labworks

1:30 – 5:00 PM – Workshop: C₃S

6:30 – 8:00 PM – High School Teacher Awards Dinner

7:30 – 9:30 PM – Poster Session I

Tuesday

7:30 AM - 5:00 PM – Registration

7:30 - 8:30 AM – District Director’s Breakfast

9:00-10:00 AM – Workshop: Strategies for Career Transitioning

Noon - 1:30 PM – Barbecue Lunch

1:30 - 5:00 PM – Workshop: Writing Excellent Research Proposals

1:30 - 5:00 PM – Workshop: New Strategies for Teaching General Chemistry

1:30 - 5:00 PM – Industrial Innovations Awards Symposium

6:00 - 8:00 PM – Industrial Innovations Dinner

6:30 – 8:00 PM – Lyle Dinner

7:30 – 9:30 PM – Poster Session II

Wednesday

7:30 AM - Noon – Registration

continued on page 8

Northeast Regional meeting

Continued from page 7

8:30 AM - Noon – Workshop: Minority Recruiting and Retention I

Noon - 1:30 PM – Student Luncheon, “Running a SA Chapter”

Noon - 1:30 PM – NERM Steering Committee Meeting

1:30 - 5:30 PM – Workshop: Minority Recruiting and Retention II

Technical Program

Monday 8:30 AM – 12:00 N

Developments in Mass Spectrometry: Instrumentation – Bruce Reinhold, Organizer

Advances in Polymer Delivery Systems and Composites – Yvon Durant and Donald Sundberg, Organizers

Reversible Molecular Interactions – Thomas Laue, Organizer

Symposium in Honor of Robert E. Lyle I – Gary Weisman, Organizer

Ultrafast Dynamics I – Peter Weber, Organizer

Contributed Papers: Organic Chemistry I

Monday 1:30 PM – 5:00 PM

Advances in Polymer Analytical Techniques – Yvon Durant and Donald Sundberg, Organizers

Oligosaccharide Synthesis – Peter Seeberger, Organizer

Ultrafast Dynamics, II – Peter Weber, Organizer

Symposium in Honor of Robert E. Lyle II – Gary Weisman, Organizer

Contributed Papers: Organic Chemistry II; Analytical Chemistry I

Monday 7:30 – 9:30 PM

Poster Session I

Tuesday 8:30 AM – 12:00 N

Developments in Mass Spectrometry: Proteomics and Glycomics I – Klaus Biemann and Bruno Domon, Organizers

Reactive and Unusual Molecules I – Glen Miller and Richard Johnson, Organizers

Clusters: From Molecules to Nanomaterials I – Olof Echt and François Amar, Organizers

Symposium in Honor of Robert E. Lyle III – Gary Weisman, Organizer

Advances in Synthetic Organic Chemistry I – Amy Howell, Peter Jacobi and Charles Zercher, Organizers

Topics in Microencapsulation and Polymer Chemistry – Yvon Durant and Donald Sundberg, Organizers

Change in Chemistry Education I – Christopher Bauer, Organizer

Kelly Scientific Resources

1/2 page Ad Appears here

Ad # KELL 674N

Strip Repro supplied

Northeast Regional meeting

Continued from page 8

Contributed Papers: Inorganic Chemistry I; Analytical Chemistry II

Tuesday 1:30 PM – 5:00 PM

Developments in Mass Spectrometry: Proteomics and Glycomics II – Klaus Biemann and Bruno Domon, Organizers

Reactive and Unusual Molecules II – Glen Miller and Richard Johnson, Organizers

Clusters: From Molecules to Nanomaterials II – Olof Echt and François Amar, Organizers

Advances in Synthetic Organic Chemistry II – Amy Howell, Peter Jacobi and Charles Zercher, Organizers

Contributed Papers; Inorganic Chemistry II; Other Chemistry Topics

Tuesday 7:30 – 9:30 PM

Poster Session II

Wednesday 8:30 AM – 12:00 N

Functional Glycomics – Harry Schachter, Organizer

Molecular Magnetic Systems I – Christopher Landee and Mark Turnbull, Organizers

Advances in Synthetic Organic Chemistry III – Amy Howell, Peter Jacobi and Charles Zercher, Organizers

Change in Chemistry Education II – Christopher Bauer, Organizer

Reactive and Unusual Molecules III – Glen Miller and Richard Johnson, Organizers

Contributed Papers: Physical Chemistry I

Wednesday 1:30 PM – 5:00 PM

Advances in Synthetic Organic Chemistry IV –

Amy Howell, Peter Jacobi and Charles Zercher, Organizers

Change in Chemistry Education III – Christopher Bauer, Organizer

Molecular Magnetic Systems II – Christopher Landee and Mark Turnbull, Organizers

Contributed Papers: Physical Chemistry II ◇

NERM 2001 Invited Speakers

Charles C. Agosta, *Clark University*

Paul Anderson, *DuPont Pharmaceutical Co.*

William F. Bailey, *University of Connecticut*

John E. Baldwin, *Syracuse University*

Joyce Bischoff, *Harvard University*

Emory Braswell, *University of Connecticut*

Kimberly A. Briggman, *National Institute of Standards and Technology*

Joseph I. Budnick, *University of Connecticut*

Kay M. Brummond, *West Virginia University*

Mike Calter, *University of Rochester*

Jennifer Campbell, *PE Biosystems*

Ray Camphausen, *Genetics Institute*

Susan Loughrey Chen, *GlaxoSmithKline*

Ashok Cholli, *University of Massachusetts - Lowell*

Daniel Comins, *North Carolina State University*

Chip Coty, *JEOL Instruments*

Shawn DeFrees, *Neose Technologies, Inc.*

Ed Dix, *Assumption College*

Xiangfeng Duan, *Harvard University*

Richard I. Duclos, Jr., *Boston University Medical School*

Rick Edmondson, *Genomic Solutions Inc.*

Christopher J. Fecko, *Massachusetts Institute of Technology*

James F. Garvey, *SUNY-Buffalo*

Robert J. Goldschmidt, *National Institute of Standards and Technology*

Nancy S. Goroff, *SUNY-Stony Brook*

Robert Gyurik, *Bentley Pharmaceutical, Inc.*

Frank Hagelberg, *Jackson State University*

David Han, *University of Connecticut Health Center*

Thomas D. Harris, *DuPont Pharmaceutical Co.*

George A. Heavner, *Centocor, Inc.*

Preston Hensley, *Pfizer, Inc.*

Ioannis Houpis, *Boehringer Ingelheim*

Amy Howell, *University of Connecticut*

Shaw Ling Hsu, *University of Massachusetts - Amherst*

Peter A. Jacobi, *Dartmouth College*

Mark Johnson, *Yale University*

Richard P. Johnson, *University of New Hampshire*

James J. Kaminski, *Schering-Plough*

Amy Keating, *Massachusetts Institute of Technology*

Larry K. Keefer, *National Cancer Institute*

Joseph L. Knee, *Wesleyan University*

Narayanan Kuthirummal, *Brown University*

Paul Lahti, *University of Massachusetts - Amherst*

John LaMattina, *Pfizer, Inc.*

Christopher P. Landee, *Clark University*

David Lemal, *Dartmouth College*

Todd L. Lowary, *The Ohio State University*

Claudio Margulis, *Columbia University*

John L. Marshall, *Polaroid Corporation*

Roy Martin, *Micromass*

Steve Martin, *Perceptive Biosystems, Inc.*

Glen P. Miller, *University of New Hampshire*

Scott J. Miller, *Boston College*

Pamela Mills, *Hunter College*

Kathleen R. Mondanaro, *St. Michael's College*

continued on page 10

Chemistry at UNH

Continued from page 4

William Robinson, a student of Parsons. When Fred Morse became director of the Massachusetts Agricultural Experiment Station in 1909, Parsons was appointed head of the department. In 1907, Parsons had been appointed the secretary of the American Chemical Society. He held this office until 1945. Thus from 1907 until 1911, when Parsons resigned to become Chief Chemist of the U.S. Bureau of Mines, Conant Hall was the headquarters of the ACS.

From 1906 to 1928, Conant Hall also housed the offices and laboratories of Charles James. On Parsons' resignation in 1911, James succeeded him as Professor and head of the department. Under his leadership, the department focused on the disciplines of inorganic and analytical chemistry. Under James, Conant Hall and Durham became known worldwide among chemists as a center of rare earth research.

On October 29, 1999 Conant Hall was dedicated as an ACS National Historic Chemical Landmark. The plaque,

which was presented to the University by ACS Past-President Paul Anderson (Ph.D., R. E. Lyle, 1963) reads: "Beginning in 1906, in a laboratory in Conant Hall, Charles James (1880-1928) devised novel fractional crystallization techniques for separating rare earth elements, which were widely adopted by other chemists. James used his method to separate large amounts of ytterbium, hitherto considered to be a single element, into two elements now known as ytterbium and lutetium. When the simultaneous isolation of lutetium was published in 1907 by Georges Urbain, James made no public claim for his own pioneering work. Despite his retiring nature, James was internationally recognized as an expert in rare earth chemistry. His highly purified rare earth specimens were in demand by research laboratories throughout the world."

Charles James Hall

By the late 1920s, Conant Hall was no longer adequate to accommodate the needs of the department. In 1926 planning began for a new and larger facility for the chemistry. James spent the next two years working and planning for the

new building. Unfortunately he was never to see the building completed as he died prematurely on December 10, 1928.

Dr. Harold A. Iddles, a graduate of Michigan State College, who held a masters from Iowa and a doctorate from Columbia was appointed the sixth Professor and Head of Chemistry in 1929. He supervised the move into

continued on page 11

Invited Speakers

Continued from page 9

James D. Morrison, *University of New Hampshire*

David Newberg, *Kennedy-Shriver Center*

Pete O'Connor, *Boston University Medical School*

James S. Panek, *Boston University*

Joel Parks, *Rowland Institute for Science*

Obadiah J. Plante, *Massachusetts Institute of Technology*

John A. Porco, Jr., *Boston University*

Fred Regnier, *Purdue University*

Bruce Reinhold, *University of New Hampshire*

Christoph Rose-Petruck, *Brown University*

Maartin Protéma, *Wayne State University*

Jason Rouse, *Genetics Institute*

Joseph E. Saavedra, *National Cancer Institute*

Martin Saunders, *Yale University*

Harry Schachter, *University of Toronto*

Charles A. Schmuttenmaer, *Yale University*

Larry Scott, *Boston College*

Touradj Solouki, *University of Maine*

Richard M. Stratt, *Brown University*

Lawrence Thompson, *Memorial University*

Mark M. Turnbull, *Clark University*

Richard Vachet, *University of Massachusetts*

Nelly Viseux, *Biogen Inc.*


Peng G. Wang, *Wayne State University*

Hilton Weiss, *Bard College*

Grant Yeaman, *Dartmouth Medical College*

Charles K. Zercher, *University of New Hampshire* ◇

Where speed and accuracy are elemental



Robertson Microlit Laboratories, Inc.
P.O. Box 927, 29 Samson Ave., Madison, NJ 07940
Phone (973) 966-6668 • Fax (973) 966-0136
RobertsonMicrolit@worldnet.att.net
www.robertson-microlit.com

• Elemental Analysis CHNSX Metals	• Trace Elements ICP/AA Ion Chromatography
• Spectroscopy MS FT-IR UV/VIS	• Bioavailability pKa Log D (pH7.4), Log P, Log Pi Solubility
• Polarimetry Specific Rotation	• HPLC Method Validation Method Development

Chemistry at UNH

Continued from page 10

the new chemistry building, which was dedicated at the 1929 fall meeting of the Northeastern Section of the American Chemical Society as Charles James Hall.

Professor Iddles expanded the offerings in organic and physical chemistry and increased the opportunities for upper level students to carry out independent undergraduate research projects. The Department was among the first to receive American Chemical Society approval and the power to confer ACS Certified Bachelor of Science degrees in Chemistry. The M.S. continued to be the highest degree offered by the department until 1955, when the Doctor of Philosophy degree program was instituted. The first Ph.D degrees were granted in 1958, all to students of Robert E. Lyle. Iddles served as Professor and Head of the department until his retirement in 1961.

Throughout the department's existence several courses in engineering were offered, because the department was in the College of Technology. In 1938 a chemical engineering option was introduced. In 1950, with the construction of Kingsbury Hall, a separate Department of Chemical Engineering was created to administer this program. A separate Department of Agricultural and Biological Chemistry was also established in the College of Agriculture.

Parsons Hall and Iddles Auditorium

The department occupied James Hall until 1967, when Parsons Hall and the Iddles Auditorium were built to house the Chemistry Department laboratories, classrooms and library. It is interesting to note that from 1866 to 1961 the department was led by only six department heads, each of whom made a distinctive contribution the growth of the department and the university. Four of them, Ezekiel Dimond, Charles Parsons, Charles James, and Harold Iddles were recognized for their contributions by having buildings named in their honor on the Durham campus.

In 1961 the system of department heads was changed to one in which department chairs were elected from the faculty ranks for fixed terms by their colleagues. Under this system, Alexander R. "Sandy" Amell, Charles W. Owens, Clarence L. "Tiny" Grant, Frank L. Pilar, Paul R. Jones, W. Rudolf Seitz, and Howard R. Mayne have chaired the department. The department's growth has leveled off since the heyday of the 1960's. State funding for the university – never high – has slipped in recent years. (New Hampshire is one of the few states with neither a sales tax nor an income tax.) However, the demands on administrative time have, if anything, increased dramatically. Chairs now have to cut through thickets of administrative red tape, keeping track of safety and employment regulations undreamed of in earlier days. The University has become a Carnegie Doctoral Extensive institution, and as such, maintains a vigorous research effort. The Chemistry Department is a key component in this effort, and can point to the fact that all its faculty members remain active in research, in spite of sometimes daunting budget problems. In 1998, the first Research Faculty came to the department, adding an expertise in biochemical mass spectrometry.

Chemistry at the University of New Hampshire has also spread to the state's largest city. The University of New Hampshire at Manchester has offered courses in chemistry for over a decade, but only this year hired its first tenure track faculty member.

Another advance has been the department's recent initiatives in recruiting and retaining US minority graduate students. This has been recognized by awards and support from Glaxo SmithKline and the New England Board of Higher Education.

Whatever the changes, however, one aspect of chemistry at the University of New Hampshire remains constant. The commitment to the service of the community and the state remains an essential one. The focus on agricultural outreach has shifted away from the Chemistry Department to the Col-

lege of Life Sciences and Agriculture, and particularly to the Cooperative Extension Program and the Agricultural Experiment Station. Meanwhile, though, the Chemistry Department has become extremely active in supporting the state's educational programs in science, involved in training science teachers at all levels. Nowadays, as well as the traditional B.S. and B.A. degrees, undergraduates can work towards a B.A.C.P.T. (B.A. in Chemistry and Physics Teaching). In addition, the M.S.T. (Masters of Science in Teaching) is available for graduate students. The department has also been a pioneer in the Preparing Future Faculty program, and continues to spearhead initiatives in the teaching of general chemistry, receiving national attention (and National Science Foundation funding) for this work.

In 1993, Paul Jones organized a meeting to celebrate "A Century of Chemistry in Durham". This meeting was attended by many with direct links to the department's past. Professor A. F. Daggett (1906-1999), a student of Charles James, was among them. He is remembered fondly, as are many others who have taught or studied here, by a memorial scholarship – the Daggett Summer Undergraduate Research Fellowship. Thus, the names of those who helped build the institution can live on with future generations of students. Parsons and James would be proud to know that the department continues the tradition of requiring a research thesis from all its B.S. students.

This summer, at NERM 2001, the University of New Hampshire invites its colleagues from the ACS Northeast Region to its campus to showcase its many facets. Most of the research areas of the Chemistry Department will be represented. In addition, we will celebrate the life and career of Professor Robert E. Lyle, who taught here from 1951 to 1977. The Chemistry Department has announced Dennis N. Chasteen as its first *Gloria G. and Robert E. Lyle Professor of Chemistry*. While the department continues to face the many challenges of the present, it keeps a respectful eye on its

Northeastern University
Full Page Ad Appears here
Ad # NORT 671N
Strip Paper Repro supplied

Places To Visit

In The New Hampshire – Maine Seacoast Area

Other possibilities are given on the NERM website

<http://www.unh.edu/chemistry/nerm/attractions.html>

Area code (603) unless otherwise indicated.

All towns are in New Hampshire unless otherwise indicated.

Start with the **Seacoast Trolley** for an overview of Portsmouth. Summer service throughout Rye and Portsmouth: Classic red trolley design with brass and oak interior much like turn of the century trolleys minus the tracks. The 17-mile narrated journey will pass Fort Constitution and Wentworth-by-the-Sea in New Castle and Odiorne Point State Park in Rye. Leaves Market Square every hour on the hour.

American Independence Museum

Devoted to the story of US Independence.

1 Governor's Lane, Exeter. 772-2622

Flag Hill Winery

Yep, in New Hampshire. Visits, tasting by appointment.

Route 155, Lee. 659-2949

Garrison Hill Tower

Climb 76 foot observation tower for scenic views of White Mountains to the ocean. Free. Daylight hours only. Abbey Sawyer Memorial Highway off Central Ave. near hospital. Dover.

Golf

Hickory Pond Inn & Golf Course
1 Stagecoach Road, Durham. 659-2227

Rockingham Country Club

Exeter Road, Newmarket. 659-9956

Hampton Beach State Park

Sandy beach with boardwalk, food, showers and entertainment. Parking fee in summer. Ocean Boulevard (Rt. 1A), Hampton Beach. 926-3784.

Isle of Shoals Steamship Co.

Narrated cruises to the Isles of Shoals and Portsmouth Harbor plus Piscataqua River cruises. Portsmouth.

1-800-441-4620

Kittery Outlets

A collection of three separate outlet

centers offering 25 designer and name brand outlets all located along Route 1 throughout the Kittery Outlet Shopping district.

Lake Winnepesaukee Area

Beautiful lake, boat trips. Excellent view from Mount Major (a moderate hike).

LL Bean in Freeport, Maine.

A region which combines the quaintness of a Maine village with upscale outlets and department stores, specialty stores and antique malls, inns, restaurants and casual eateries. From Portsmouth, take I-95 to the Maine Turnpike, Exit 9. Follow signs to I-95 North and take Exit 17, 19 or 20 for Freeport. All of these Exits lead directly to US Route 1.

NH Seacoast Cruises/Whale Watching

Whale watching cruises daily at 8:30am and 1:30pm.

Rt. 1A, Rye Harbor. 964-5545

Old York Historical Society

Buildings showing life in the 17th and 18th centuries.

York, Maine. Tues.-Sat. 10:00am-5pm, Sundays 1-5 p.m. (207) 363-4974.

Phillips Exeter Academy

Prestigious secondary school. Tour historic campus including famous contemporary library designed by Louis Kahn, Phillips Church, Grainger Observatory and beautiful Georgian architecture. 60 Front St. Exeter. 772-4311. Free.

Portsmouth Harbor Trail

Walking tour of historic downtown sites includes the Moffatt-Ladd House, St. John's Church, Warner House, Prescott Park, Strawberry Banke Museum, Wentworth-Gardner House, Old South Meeting House (Children's

Museum of Portsmouth), North Church, Gov. John Langdon House, Ye Olde Post Office/Custom House, John Paul Jones House, Bulfinch Library, Rockingham Hotel, Rundlet-May House, Universalist Church, The Music Hall and the Portsmouth Athenaeum among others. Portsmouth Chamber of Commerce Foundation. 436-1118.

Portsmouth Livery Co.

Historic tours of Portsmouth by horse-drawn carriage. Departs from Market Square or by reservation. Portsmouth. 427-0044.

Prescott Park

Portsmouth, on the Piscataqua River, opposite the Portsmouth Naval Shipyard (is it in Maine or New Hampshire? Only the US Supreme Court knows for sure!) Summer Arts Festival (436-2848) features local and imported talent in the warm evenings.

Seacoast Repertory Theatre

Year round theatre company in historic building. Bow St. 433-4472.

Strawbery Banke

A 10 acre waterfront neighborhood and museum illustrating 350 years of architecture and social life through restored furnished houses, exhibitions, period gardens, traditional crafts and special programs. Marcy St. Portsmouth. 433-1100.

Wallis Sands State Beach

Nice beach if you wish to avoid the crowds at Hampton. Sandy beach, changing facilities, eatery, parking. Admission fee. Route 1A, Rye. 436-9404

White Mountains

Especially the Kancamagus highway (you show you're from out of state if you say "Kancamangus"). The ranger station gives information about hikes – "Boulder Loop" is a good easy one. White Lake State Park is closer, and has a nice lake.

Woodman Institute

Preserved 1675 Garrison house. Local historic exhibits. Excellent collection of rocks and minerals, natural history exhibits, Civil War artifacts, antiques.

continued on page 14

Places To Visit

Continued from page 13

Located at 182 Central Ave. on the corner of Summer St. Dover.
Call for hours. 742-1038.

For Younger Families

(Look for the endorsements () by the "UNH Chemistry Kids")*

Bayview Farms Horseback Riding

632 Bayside Rd., Greenland. 431-8221
*Endorsed by Briana Bauer (age 13)

Canobie Lake Park

State-of-the-art amusement park features 4 coasters, the Log Flume water ride called "The Boston Tea Party", the Timber Splash water coaster, a hand-painted antique carousel, authentic steam train, giant skywheel, over a dozen kiddie rides. From NH Seacoast: Take I-95 South to Route 495 South to Route 213 West to Route 93 North to Exit 2 in Salem, NH. 893-3506

*Nicholas Bauer (age 15), Briana Bauer (13), Victoria Mayne (15) and Kyle Wang (15)

Children's Museum of Portsmouth

Engaging hands-on exhibits, but plenty of places to let off steam, too. 280 Marcy St., Portsmouth. 436-3853
*Julia Reinhold (4)

Christa McAuliffe Planetarium

<http://www.starhop.com/>
3 Institute Drive, Concord. 271-7831.
*Endorsed by Andrew (age 15), Catherine (13) and Christina (16) Johnson and Victoria Mayne (15)

Chuck E. Cheese's

Fun for the younger age group. Parents can take out their frustrations with "Whack-a-Mole".
30 Fox Run Rd., Newington. 431-1367
*Miranda Miller(5) and Caitlyn Miller(2)

Dover Bowl

Cosmic bowling. Central Ave., Dover. 742-8292
*John Tomellini (11)

Durham Pool

If it's hot, this is THE place to be. On the UNH campus.

Fort Foster

From I-95, take exit #2 At rotary take Rte 236 S. Becomes Rte 103. Follow 3.4 miles. Take R on Chauncy Creek.

Follow 0.4 m take R on Pocahontas. Just over bridge take R, follow signs to Gate House. Go through gate. (\$4.50/car+\$2/passenger) Great place to explore! Excellent scuba diving.
*Kyle Wang (15)

Hilltop Fun Center

Miniature golf. Video arcade. Rt.108, Somersworth.
742-8068
*John Tomellini (11)

Joker's Family Fun N Games

Video games and fun for rainy days.
2460A Lafayette Rd. (Rt. 1 S.), Portsmouth. 431-7770
*Jessica Miller (10) and Victoria Mayne (15)

Odiorne Point State Park/Fort Dearborn

Footpaths and picnic areas along ocean and Little Harbor. Explore the tide pools and visit the Science Center with its hands-on exhibits. Site also contains abandoned WWII era bunkers. Parking fee. Route 1A, Rye. 436-1552
*Victoria Mayne (15)

Polka Dots Personalized Pottery

Decorate your own pottery. Appeals to all ages. 599 Lafayette Rd., Portsmouth. 427-1085
*John Tomellini (11)

Roller Skate Newington

Fox Point Rd., Newington. 431-2267
*Jessica Miller (10)

Sandy Point Discovery Area

The education headquarters of Great Bay National Estuarine Research Reserve. The site includes 50 acres of mixed-upland forest, freshwater wetlands and extensive salt marshes, with access to all three habitats via a wheelchair accessible 1700-foot boardwalk. Wednesday through Sunday, 10:00 am - 4:00 pm. 89 Depot Rd. (Off Rt. 33), Stratham. 778-0015
*Emma Weisman (18)

Water Country

Giant water slides and New England's largest wave pool. Lazy River and Raging Rapids tube rides and, for the brave, the free-falling "Geronimo".
Rt. 1 S., Portsmouth. 436-3556
*Briana Bauer (13), Nicholas Bauer

continued on page 16

cd

The NEW Chemo Dynamics, L.P.

3 Crossman Road South
Sayreville, New Jersey 08872

Process Discovery, Development, Small Lots Mfg

- Staff increased in number, depth and breadth of skills
- New cGMP suites, New Analytical Laboratory
- Seven excellent, refurbished synthesis laboratories
- To Serve: Pharma, Diagnostics, Fine Chemical Needs

Call Dr. John Arnett, Director -- 732-721-4700

Fax: 732-721-6835 - email: info@chemodynamics.com

ACS SHORT COURSE

Designed to improve the skills and marketability of practicing B.S., M.S., and Ph.D. chemists.

The NESACS Committee on Continuing Education is pleased to sponsor this newly updated National ACS Three-Day Short Course, at a registration fee of about half of that charged at National and Regional ACS Meetings.

PHARMACOLOGY FOR CHEMISTS

This Short Course is designed for chemical scientists who have little or no formal training in physiology, pharmacology, or medicinal chemistry. Registrants should have a firm grasp of organic chemistry, and the equivalent of an introductory course in physical chemistry and biochemistry.

DATES and TIME: Wednesday, Oct. 10, 2001; 8:00 a.m. – 5:30 p.m.

Thursday and Friday, Oct. 11 – 12, 2001; 8:30 a.m. – 5:30 p.m.

PLACE: Snell Library, Room 88, Northeastern University, 360 Huntington Ave., Boston, MA

PROGRAM AGENDA:

General Concepts and Principles of Pharmacology: Definitions and survey of the appropriate literature; Membrane models, ion channels, structure of liquid water and implications to pharmacology; Absorption and distribution of drugs – active and passive transport; Blood-brain barrier; Drug metabolism, storage and excretion; Enzyme induction; Drug-receptor interactions and theories of drug activity; Introduction to pharmacokinetics.

Nervous System: Anatomy and physiology of the nervous system; Nerve impulse transmission.

Autonomic nervous system: Autonomic physiology and pharmacology; Noradrenergic system – receptors, agonists, antagonists, mixed acting drugs; Dopaminergic system – physiology, Parkinsonian syndrome; Cholinergic system – receptors, agonists, antagonists, acetylcholinesterase inhibitors, Alzheimer's syndrome, other forms of cognitive dysfunction.

Central nervous system drugs: Definitions; Aspects of CNS anatomy and physiology; Neurotransmitters and receptors: Antidepressants; Antianxiety agents; Mood stabilization; Antipsychotics; Sedatives and related agents.

Analgesics and related agents: Definitions and testing methods; Placebo effect, Anti-inflammatory analgesics – the anti-inflammatory response, role of prostaglandins, survey of drugs in this category; "Coal tar" analgesics – possible mechanisms of action, metabolic aspects, toxicity; Opioid analgesics – survey of chemical types, "MPTP," receptors, mechanisms of action, endogenous peptide analgesics.

Cardiovascular Agents: Aspects of cardiovascular anatomy and physiology; Hypertension – physiology of blood pressure regulation, Renin/angiotensin system; Antihypertensive drugs – physiology and pharmacology; Arrhythmias – aspects of physiology, agents used and pharmacological mechanisms, physiology of muscle fiber contraction, ion channels; Myocardial ischemia (angina pectoris) – physiological aspects, drugs employed.

INSTRUCTOR:

Joseph G. Cannon, Emeritus Professor of Medicinal Chemistry, University of Iowa, has authored and co-authored over 200 articles in Organic Chemistry, Medicinal Chemistry, and Pharmacology. He is one of the highest rated instructors in the ACS Continuing Education program and is the recipient of the Smitsman-Bristol-Myers-Squibb Award sponsored by the ACS Division of Medicinal Chemistry.

PRE-REGISTRATION REQUIRED – Registration Fees:

ACS Members if **received** before Sept. 26\$500.00; after Sept. 26\$575.00

Non-ACS Members if **received** before Sept. 26\$600.00; after Sept. 26\$675.00

There will be a limited number of scholarships for unemployed ACS Members on a space-available basis.

Parking Fee \$14.00/day

University cafeterias will be available for lunches.

For further information contact: Prof. Alfred Viola at (617) 373 2809

Registration form for Short Course: *Pharmacology for Chemists*

Name: _____ Business Affiliation: _____

Mailing _____ Telephone: _____

Address _____

Mail with remittance to:

(Please make checks payable to **NESACS**.)

Sorry, we cannot accept credit cards or purchase orders.)

Prof. Alfred Viola, Chair
NESACS Committee on Cont. Ed.
Department of Chemistry
Northeastern University
Boston, MA 02115

Eating Out at The Seacoast

Other possibilities are given on the NERM website
<http://www.unh.edu/chemistry/nerm/attractions.html>

All area code (603) unless otherwise indicated.
All towns are in New Hampshire unless otherwise indicated.

*Recommended by UNH Chemistry Department

Acorns Restaurant, New England Center*

Contemporary American. Dramatic views. Pacing is leisurely; be warned if you are in a hurry.

15 Strafford Ave. UNH campus, Durham. 862-2815

Anthony Alberto's Ristorante*

Excellent Italian. 59 Penhallow St. Portsmouth. 436-4000.

Banana's Bar and Grill

Dancing some evenings.

172 Hanover St. Portsmouth. 431-5795

Barnacle Billy's

Located directly on the harbor in Perkins Cove, a famous artists' colony that boasts many shops and galleries.

Perkin's Cove, Ogunquit, ME. (207) 646-5575

BG's Boat House Restaurant

Outdoor dining by the marina and an air-conditioned dining room.

191 Wentworth Road Portsmouth. 431-1074

Blue Mermaid World Grill

Interesting international variations on grilling. Near the Sheraton.

The Hill, Portsmouth. 427-2583

Café Brioche*

Cafe Brioche – great coffee and pas-

tries. This is THE place to people watch.

14 Market Square, Portsmouth. 430-9225

Café Mirabelle*

Excellent French food in a relaxed and informal atmosphere. Don't be fooled by the small façade.

64 Bridge St. Portsmouth. 430-9301

Café Mediterraneo *

Good Italian food, good service, nice atmosphere!

152 Fleet St., Portsmouth. 427-5563

Cape Neddick Lobster Pound Harborside Restaurant

Perched on the banks of the Cape Neddick River.

Shore Rd Cape Neddick, ME. (207) 363-5471

Chiangmai*

Thai.

128 Penhallow, Portsmouth. 433-1289

Chili's Grill and Bar

New England Mexican. 18 New Rochester Rd., Dover. 749-0939

Ciento*

Tapas bar and restaurant.

100 Market St. Portsmouth. 766-8272

Dolphin Striker*

Upscale traditional New England dining.

15 Bow St. Portsmouth. 431-5222

Dunfey's Aboard the John Wana-maker*

On board the 1923 tugboat on the Piscataqua River.

Harbour Place, Portsmouth. 433-3111

Foster's Clambake*

New England clambake.

Route 1A, York, ME. (207) 363-3255

Friendly Toast

Almost impossible to describe. "Quirky", perhaps? 121 Congress St.

Portsmouth. 430-2154

Governor's Inn*

Built in 1920 for former NH Governor Huntley Spaulding. Accommodation and dining.

78 Wakefield St. Rochester. 332-0107

Library Restaurant*

In the historic Rockingham House. Good food, and books to read while you wait.

401 State St. Portsmouth. 431-5202

Lindbergh's Crossing

Bistro and Wine Bar.

29 Ceres St. Portsmouth. 431-0887

Newick's

Some love it, some hate it. But you should experience it once. Seafood.

431 Dover Point Rd. Dover. 742-3205

Oar House*

Portsmouth harbor area with summer riverfront deck. Upscale.

55 Ceres St. Portsmouth. 436-4025

Ogunquit Lobster Pound Restaurant

Guess what they serve!

U.S. Route One, Ogunquit, ME. (207) 646-2516

Old Ferry Landing

On the river overlooking the tugboats.

10 Ceres St. Portsmouth. 431-5510

Portsmouth Gaslight Company*

Pub-style food, wood-fired brick oven pizza, and live entertainment. Very popular with the 20-30 age crowd.

64 Market St. Portsmouth. 430-8582

Porto Bello Ristorante Italiano

Traditional Italian cuisine.

67 Bow St. Portsmouth. 431-2989

Rosa Restaurant

Italian. A Portsmouth institution.

80 State St. Portsmouth. 436-9715

Sake*

Japanese. 141 Congress St., Portsmouth. 431-1822

Sakura

Japanese.

40 Pleasant St. Portsmouth. 431-2721

Sheraton Harborside Hotel*

Has good restaurant and nightclub.

250 Market St. Portsmouth. 431-2300

Places To Visit

Continued from page 14

(15) and Victoria Mayne (15)

York Wild Kingdom

Exotic animals from around the world, plus a variety of family rides, paddle boats, an 18 hole miniature golf course, a petting zoo, scenic picnic grounds and even a Haunted House. Route 1, York Beach, Maine (207) 363-4911

*Julia Reinhold (4) ◇

Continued on page 17

Eating Out

Continued from page 16

Ship To Shore*

Excellent, if a little out of the way.
Route 108, Newfields. 778-7898.

Three Chimneys Inn

Newly restored in the original 1649
Frost-Sawyer homestead.
17 Newmarket Rd. Durham. 868-7800

York Harbor Inn*

Fine dining, inn, conference center and
pub on historic York Harbor
Rte 1A, York, ME. (800) 343-3869

Thai Paradise*

Excellent small family-owned Thai
restaurant.
96 Bridge St. Portsmouth. 431-9193

Taipei and Tokyo*

Sushi and Chinese. 1465 Woodbury
Ave., Portsmouth. 431-3662

Shalimar Indian Restaurant

Indian cuisine.
80 Hanover St. Portsmouth. 427-2959

Watering Holes

Benjamin's

Small bar. OK (if rather slow) food.
Jenkins Ct. Durham. 868-6611

Crazy Cat Lounge

Music for the younger crowd.
Congress St. Portsmouth. 430-0772

Hair of the Dog

Bar and bar food. Recommended by
grad students (need we say more?)
Main St. Durham. 868-9876

Molly Malone's

Irish pub upstairs, restaurant
downstairs.
177 State St. Portsmouth. 433-7233

Portsmouth Brewery

Brewpub.
56 Market St., Portsmouth 431-1115

Red Hook Brewery*

Tours and tasting. Restaurant and out-
let. Pease Tradeport, Portsmouth. 430-
8600

The Tin Palace

The beer's OK, I guess, and it's close
to the MUB. Ballard St. Durham. 868-
7456 ◇

NOTE TO PRINTER
Mass Vac
2/3 page ad appears here
Ad # MASS 357
Paper ad to be stripped in
by Saltus

ISOM XIV

14th International Symposium on Olefin Metathesis and Related Chemistry

August 5-9, 2001, MIT

The Organizing Committee is pleased to invite you to attend the 14th International Symposium on Olefin Metathesis and Related Chemistry (ISOM XIV) to be held at the Massachusetts Institute of Technology in Cambridge (Boston), Massachusetts, from Sunday noon, August 5 through Thursday noon, August 9, 2001. This symposium follows that held in July of 1999 in Kerkrade, The Netherlands.

The program will begin Sunday, August 5th with morning registration and a welcoming brunch followed by afternoon lectures. Approximately 35 lectures (invited, contributed, and oral posters) will be presented.

Please go to <http://web.mit.edu/rrs/isom> for full conference details. Early registration deadline is June 15, 2001.

The following are confirmed speakers:

Jean-Marie Basset, John Bercaw, Maurice Brookhart, Michael R. Buchmeiser, Uwe Bunz, Christopher Cummins, W. James Feast, Robert H. Grubbs, Amir H. Hoveyda, Thomas R. Hoye, Ezat Khosravi, Toshio Masuda, Steve Nolan, Jun Okuda, Richard R. Schrock, Susannah Scott, Lawrence R. Sita, Franz Stelzer, Emma Thorn-Csanyi, Gerard van Koten, and Ken Wagener.

Richard R. Schrock
Massachusetts Institute of Technology
Cambridge, MA
rrs@mit.edu

Amir H. Hoveyda
Boston College
Chestnut Hill MA
hoveyda@bc.edu

General inquiries should be addressed to: ISOMXIV@mit.edu ◇

Book Review

A Chemical History Tour: Picturing Chemistry from Alchemy to Modern Molecular Science, By Arthur Greenberg (Dean, College of Science and Engineering, U. of N.H.) (Wiley-Interscience; 2000), 312 pp., 0471354082; \$59.95 (hardcover)

Reviewed by David L. Adams
Department of Chemistry
University of Massachusetts,
Amherst, MA 01003

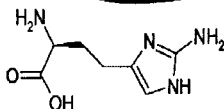
In the preface to *A Chemical History Tour*, Arthur Greenberg states that “the purpose of this book is to treat you to a light-hearted tour through selected highlights of chemical history,” and “this book is designed as a picture book with sufficient text to explain details and content.” He further states that the book “is meant to be skimmed as well as read.” The author, I believe, has accomplished these goals. The book is well written, well referenced and indexed.

The segments on pages 181 to 184 exemplify the pedagogical techniques used, the style, and the utility, of Greenberg's book. First, the units are brief and, although grouped by topic and era, they stand alone. Second, the author makes connections among similar events or concepts from different eras in the history of chemistry. Third, and this is perhaps the major strength of the book, he uses images to convey chemical history. In these three pages, he provides a common thread in the discovery of elements through the use of “chemical scalpels.” Fire, the first chemical scalpel, added the four elements antimony, arsenic, bismuth, and zinc, to the nine known to the ancients. Sir Humphrey Davy used the voltaic pile, or, in Greenberg's view, the “electrical scalpel,” to free alkali metals from their compounds. Glenn T. Seaborg used radiation to discover

Continued on page 19



Amino Acid Analogues, Inc.



106 South Street Hopkinton, MA 01748

Phone: 1-888-777-4622 1-508-544-8265

Fax: 1-888-777-3624 1-508-544-8259

email: rsp@amino-acids.com www.amino-acids.com

Tailoring Amino Acid Building Blocks and Scaffolds for Medicinal Chemistry

Ask us for a copy of our NEW Building Block Index. Version 4.0 and

Come see us at:

- ACS National Meeting in San Diego, April 2-4, 2001
- 17th American Peptide Symposium in San Diego, June 9-14, 2001
- Drug Discovery Technology in Boston, August 13-17, 2001
- ACS National Meeting in Chicago, August 27-29, 2001
- CPhI in London, United Kingdom, October 8-10, 2001

Or visit our NEW web site to view our index, market selection analogues, and capabilities

Our laboratory is expanding and Chemist employment positions are available

Book Review

Continued from page 18

transuranium elements in the 20th century. On page 182 a plate from Davy's 1812 book *Elements of Chemical Philosophy*, shows the voltaic pile Davy used, along with the apparatus he used to discover potassium.

Greenberg effectively uses images not only to explain, but also to convey the thoughts and apparatus of the time. In fact, the single feature of this history of chemistry that separates it from many others is the use of images to develop the history of chemistry and bring it alive. For example, the description of the Atomic Paradigm by Dalton revolves around three plates from Dalton's *A New System of Chemical Philosophy* (1808-1810). These drawings show atomic symbols, the combination of atoms in simple, whole numbers to form compounds, and a description of why ice is less dense than water based on their molecular structures. Further, Greenberg illustrates Boyle's Law using two plates from *New Experiments Physico-Mechanical, Touching the Spring of the Air* published in 1662 that show the apparatus Boyle used. The images are less commonly known, and so serve a useful purpose in providing a visual portal into chemical history. In addition, the images, along with their accompanying descriptive text, provide an opportunity for the non-scientist to delve into our history.

Anyone interested in the history of chemistry will want to have this book on their reference shelf, especially because of its extensive use of visual images. The book is not, nor does it claim to be, a complete history of the science. Rather, it treats certain areas in chemical history in a loose chronological fashion. The topical units cover 1-3 pages on average, which allows short, flexible reading sessions. The treatment is often fragmented, switching topics quickly. These features make the text less useful for a formal history of chemistry course, but more useful for intermittent reading or as a supplemental text. The book's value

for a course in the history of chemistry is enhanced, however, by the inclusion of a good index and many references. The index, while acceptable, could have been better if it included separate name and subject indices, and if the main index topics were expanded to include subcategories.

One of the pedagogical techniques used in the book that is very helpful in seeing historical parallels is that of connecting the old with the new. For example, on page 169 the explanation by Berthollet of the high concentrations of soda on the shores of salt lakes in Egypt presaged the law of mass action and Le Chatelier's Principle. Also, the modern notion that anti-cancer agents poison cancer cells more rapidly than normal cells is quite similar to Paracelsus' old idea that one poison could act as a purge for illness caused by another poison.

Generally, the book is well done and there are numerous instances where Greenberg injects humor and levity into the writing. These tend to make the reading more enjoyable, and even sometimes raise serious issues.

For instance, Greenberg's analysis of the tenure file of Henry Cavendish on page 129 is funny, timely, and a commentary on the modern tenure decision process. There are, however, instances where the writing is unclear. For example, on pages 27-31 the author discusses the "Great Work," yet it is never defined or described or noted in the index. Only one technical error was discovered, and that is undoubtedly a typo. On page 121 the formula of samarium oxide is given as SmS. Finally, the binding of the book is poor; pages have already become largely separated in the review copy I used.

Overall, my history of chemistry bookshelf is enriched by the presence of Greenberg's book. I will read it when I have only a few minutes to spend on learning a single facet of chemical history, or when I have more time to delve into an entire era in chemical history. I will also use it as a reference in finding information about pre-20th century chemical history, especially with regard to the images important to that history. ◇

Eastern Scientific

1/2 page Ad Appears here

Ad # EAST 584N

Strip Repro supplied

From the Esselen Meeting



At the table (l. to r.) Mrs. DeSimone, Dr. and Mrs. Ed Samulski, Dr. Joseph DeSimone, Dr. Iclal Hartman (Esselen Comm. Chair) Dr. Timothy B. Frigo, NESACS Chair (photo by Jet Photographers)



Rose Simon and Gus Esselen, III (photos by Chu Jung)



Catherine Hanson, Joanna Stengel, Joan Foot



Jack Esselen, Kathy Esselen, Bert Welling, Mrs. E. Esselen, Joanna Stengel



Gus Esselen, III and Joseph DeSimone - Award Presentation

SciVision

1/2 page Ad Appears here

Ad # SCIV 654N

Strip Repro supplied

BUSINESS DIRECTORY

SERVICES

CNH Technologies, Inc.

Contract Organic Synthesis - R & D - mg-kg
On Time & On Spec
10A Henshaw St. Ph: 781 367-4047
Woburn, MA 01801 Fax: 781 933-1839
e-mail: services@cnhtechnologies.com

Front Run OrganX, inc.

Custom/Contract Synth.-Process R&D
Scaffolds B-Blocks Pre-Clinical
Simple.....Complex
FrontRun@sprynet.com Ph 978-356-7133
17 Hayward St., Ipswich, Ma. 01938 Fax-7449

BOOK REVIEWERS WANTED

The Nucleus is looking for people to review the following books:

Daniel S. Greenberg, "Science, Money and Politics. Political Triumph and Ethical Erosion"

Michael Gross, "Travels To The Nanoworld. Miniature Machinery In Nature And Technology"

Ivan Valiela, "Doing Science. Design, Analysis, and Communication of Scientific Research"

Timothy Pasquarelli and Frankie Woid-Black, "Emergency Preparedness Planning. A Primer For Chemists"

Please contact **Dennis J. Sardella**, the Book Review Editor directly, either by phone, (617)-552-3621 or by e-mail sardella@bc.edu

NEW WEB ADDRESS

The Northeastern Section ACS has a new web address. It is:

www.nesacs.org

The site can also be reached at:
www.acs.org/localsections

PRODUCTS

PROTECT

Your Expensive Lab Work With Research and Development Record Books

STOCK RECORD BOOKS

B50D ---- Fifty pages and fifty duplicates
1/4 inch sqs. on right pages

B100P --- 100 - 1/4 inch sqs. on right pages
100 - 10 sqs. per inch on left pages.

B200P --- 208 1/4 inch sqs. on right and left pages
B200PH - 208 horizontally lines right and left pages.

Books have instruction and TOC's. Page size 11 x 8 1/2.
Hard extension brown cloth covers. Pages open flat.

\$14.00 EACH, FOB Chicago

CUSTOM MADE BOOKS TO ORDER

Scientific Bindery Productions

60 E. 13th Street Chicago, IL 60605

Phone: 312-939-3449 Fax: 312-939-3787



micron inc.

Analytical Services

Complete Materials Characterization

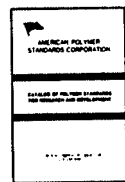
Morphology Chemistry Structure

3815 LANCASTER PIKE, WILMINGTON DE.19805
PHONE 302 - 998 - 1184, FAX 302 - 998 - 1836

MICRONANALYTICAL@COMPUSERVE.COM
WWW.MICRONANALYTICAL.COM

FREE

Polymer Standards Catalog



AMERICAN POLYMER
STANDARDS CORPORATION

P. O. Box 901, Mentor, Ohio 44061-0901
Phone: 440-255-2211 Fax: 440-255-8397

Coating Machines and Technology by INOKIN, Ltd.

Medical and Medical Packaging,
Electronic Materials, Flexible PCB,
Batteries, Ceramic Capacitors, Imaging
and Displays Materials, Optical Coatings
and many more...

Exclusive Representatives in North America:



Tekmatex, Inc.
Charlotte, NC 28266
Ph: (704) 394-5131

www.inokin-usa.com

Teachers' Summer Institute

*The Chemistry of Polymers
and Polymer Science*

August 6-9, 2001

University of Massachusetts,
Amherst, MA

Presentations by faculty members of the University of Massachusetts-Amherst, industrial chemists, teachers on topics of how to incorporate teaching about polymers into the curriculum, projects in polymers and plastics. Workshops, visit to the National Plastics Museum in Leominster.

Additional Meetings:

Saturday, October 6, 2001 at UMass-Amherst

Saturday, November 3, 2001 at Burlington High School

Saturday, December 1, 2001 at UMass-Amherst

For detailed information, contact:

Dr. Peter Nassif,

Conference Coordinator

pnassiff@massed.net ♦

May Puzzle Solution

B	E	T	S		H	E	W	E	D		A	G	R	A		
A	C	H	E		O	L	I	V	E		I	R	O	N		
G	R	E	E	N	A	C	R	E	S		S	E	A	N		
S	U	N			E	R	I	E			T	O	L	E	D	O
					L	A	D	D			N	I	V	E	N	
W	A	G	E	R	S		B	O	N	E		H	A	S		
E	Z	R	A	S		G	R	E	E	N	H	O	R	N		
D	U	E	S		A	L	A	N	S		A	U	D	I		
G	R	E	E	N	L	A	N	D			V	I	S	E	D	
E	E	N			O	L	D	S		S	E	R	E	N	E	
					P	O	P	E	S		S	O	N	S		
B	R	E	W	E	R		T	I	N	A		A	C	E		
L	E	A	N		G	R	E	E	N	L	I	G	H	T		
O	N	C	E		I	H	A	V	E		R	E	I	N		
W	E	E	D		C	O	M	E	T		E	D	N	A		

BUSINESS DIRECTORY

PRODUCTS

SCHWARZKOPF Microanalytical Laboratory

Elemental & Trace Analysis
Organics, Inorganics
Organometalics
Metals by AA & Graphite Furnace
Functional Grps.- Mol. Wt.
Calorimetry
Total S, F, Halogens TOX
Coneg Testing Custom Analysis
56-19 37th Ave. Woodside, N.Y. 11377
(718) 429-6248

LABORATORY EQUIPMENT

Bought • Sold • Exchanged
JUNE SPECIAL -- BALANCES

A wide range in stock: Mettler/Toledo
digital electronic floor scale-500 Kg.
Capacity. Cahn model 33 digital micro-
balance 1 microgram/450mg.
Many other options-let us know what you need

American Instrument Exchange, Inc.
1023 Western Ave., Haverhill MA 01832
TEL: 978-521-2221 FAX: 978-521-8822
www.americaninstrument.com

CONSULTANTS

DESERT ANALYTICS LABORATORY

- CHNOSP Halogens
- Metals by AA/ICP
- Ion Chromatography
- Trace Analysis
- Coal/Petroleum

≡ Fast, Reliable Service ≡

No Charge for Phone/Fax Results

P.O. Box 41838 245 S. Plumer, #24
Tucson, AZ 85717 Tucson, AZ 85719
Fax 520-623-9218 Phone 520-623-3381

Web: desertanalytics.com

E-mail: thelab@desertanalytics.com

ANALYSIS FOR THE CHEMICAL ELEMENTS

SERVICES

QTI QUANTITATIVE TECHNOLOGIES INC. The Proven Leader in...

Elemental Analysis

- ✓ CHNSX
-24 HR. RESULTS
- ✓ TRACE LEVEL ANALYSIS
- ✓ WET CHEMISTRY
- ✓ AA, GFAA, ICP
- ✓ HPLC, GC

Pharmaceutical Support

- ✓ METHOD DEVELOPMENT
- ✓ DISSOLUTION
- ✓ STABILITY

Science Industry Park, #8 • Route 22 East
Winchester, MA 01890-0770

To check out more about QTI, call

908-534-4445

e-mail - info@qtonline.com www.QTionline.com

Chemical Analysis Services

- ▲ Materials ID/Deformation
- ▲ Competitive Product Analysis
- ▲ Defects/Failure Analysis
- ▲ Polymer Analysis & Testing



Chemir / Polytech
Laboratories, Inc.

(800) 659-7659

chemir.com

2672 Metro Blvd.
Maryland Heights
Missouri 63043

POLYMER PROBLEMS?

- Complete Polymer Deformation
- Good vs. Bad Comparison
- DSC, TGA, IR, UV-Vis, GC, HPLC, NMR
- GPC/SEC Molecular Weights and MWD
- Additive Package Analysis

4 Mill Street
Bellingham, MA
02019

(508) 966-1301



NMR ANALYSIS

270 - 360 - 400 MHz • 1D/2D
Liquids/Solids • GLP/GMP Compliance
SPECTRAL DATA SERVICES, INC.
818 Pioneer • Champaign, IL 61820
(217) 352-7084 • Fax (217) 352-9748
<http://www.sdsnmr.com> sdsnmr@sdsnmr.com

ORGANIX INC. CONTRACT RESEARCH CUSTOM SYNTHESIS

Milligram to kilogram scale
in all areas of Organic Chemistry
240 Salem Street, Woburn, MA 01801
Phone: 781-932-4142 Fax: 781-933-6695
Web: www.organixinc.com

VOLUNTEERS

**Reporters needed
to cover ACSNES
monthly meeting
lectures**

Phone for more details
Myke S. Simon
Nucleus Associate Editor
Tel: 617-332-5273

Prime Organics, Inc.

CONTRACT ORGANIC SYNTHESIS

MILLIGRAM TO KILOGRAM QUANTITIES
SINGLE OR MULTI STEP SYNTHESIS

- ◆ Pharmaceutical Intermediates
- ◆ Steroids
- ◆ Nucleosides, Amino Acids
& Peptides
- ◆ Optical Dyes
- ◆ Cryptands
- ◆ Building Blocks for
Combinatorial Chemistry
- ◆ Process Development & Scale Up

CHEMISTS...WHO SPEAK FLUENT BIOTECHNOLOGY

450 Chelmsford Street, Lowell, MA 01851

Phone (978)970-1074

Fax (978)934-0731

prime@world.std.com

BUSINESS DIRECTORY

CAREER OPPS



As a result of continued growth and expansion, Cambridge Isotope Laboratories, Inc., a leading manufacturer of stable isotope labeled chemicals and biochemicals, has the following opportunities:

RESEARCH PRODUCTS CHEMIST, Ph.D.

Requires excellent laboratory techniques, a broad knowledge of organic synthetic methods, strong analytical skills and a proficiency in chemical separation and identification of organic compounds.

RESEARCH PRODUCTS CHEMIST, B. S.

Requires excellent laboratory techniques, an eagerness to learn, and a solid background in organic chemistry or biochemistry and experience with analytical techniques. Biochemist will have knowledge of protein expression and purification as well as chromatographic skills.

CIL offers an excellent benefits package including

- matching 401(k),
- sabbatical program and,
- long-term incentive program.

Please send your resume/salary history to:
Personnel Department at

Cambridge Isotope Laboratories, Inc.
50 Frontage Road, Andover, MA 01810
An equal opportunity employer.
Non-smoking environment.

CAREER OPPS



As a result of continued growth and expansion, Cambridge Isotope Laboratories, Inc., a leading manufacturer of stable isotope labeled chemicals and biochemicals, has the following opportunity:

Regulatory Affairs Chemist

Responsible for the development and monitoring of cGMP protocols, process validation, system documentation and standard operating procedures for several new GMP products. Requires a BS or MS in chemistry or biochemistry, 3-5 year experience with quality systems, GMP regulations, methods, and procedures; excellent communication and problem solving skills, and computer literacy. Will report to Regulatory Affairs Manager and work closely with chemical production staff, quality control and outside consultants.

CIL offers an excellent benefits package including

- matching 401(k),
- sabbatical program and,
- long-term incentive program.

Cambridge Isotope Laboratories, Inc.
50 Frontage Road, Andover, MA 01810
An equal opportunity employer.
Non-smoking environment.



**SPECIALISTS IN TESTING
ADVANCED COMPOSITES**

- Mechanical Testing ■ Metallography
- Thermal Analysis
- Flammability, Smoke Toxicity and OSU Heat Release
- Thermal Cycling ■ HPLC-GPC

1024 Grand Central Avenue • Glendale, CA 91201
Internet: www.delsen.com • Fax: (818) 247-4537

888-433-5736 MEMBER **EX II**

*NMRService 500MHz

*MASS *Elemental Analysis

Fast Turnaround / Accurate results

NuMega Resonance Labs.

(858) 793-6057 Fax (858) 793-2607

MATERIALS – FAILURE ANALYSIS

Polymers • Paints • Metals • Coatings

SEM • ESCA • Auger • μ FTIR • Contact Angles
Surface Tension • Custom Analysis and Research

SURFACES RESEARCH 1-800-328-8221
www.surfacesresearch.com

CAREER OPPS



Notre Dame College, a four year, Catholic, coeducational liberal arts college, founded and sponsored by the Sisters of Holy Cross, located in Manchester, NH is seeking a full time Chemistry Laboratory Instructor. Responsibilities include teaching five sections per semester including general, organic and biochemistry laboratory exercises. Duties include instructing and grading in consultation with chemistry faculty, preparing chemicals, maintaining safe laboratory equipment and environment, supervising student workers, managing inventory, and complying with accepted safety practices. Educational requirements: BS in chemistry or biology; MS and previous teaching experience preferred. Interested candidates please send cover letter, resume and three professional letters of reference to Office of Human Resources, Notre Dame College, 2321 Elm Street, Manchester, NH 03104 or e-mail: mrogers@notredame.edu.

Notre Dame College is an equal opportunity employer

Index of Advertisers

Am. Instrument Exchange	22
Am. Polymer Standards Corp.....	21
Cambridge Isotope Laboratories ...	23
Chemir/Polytech Laboratories.....	22
Chemo Dynamics LP.....	14
CNH Technologies, Inc.	21
Delson Testing labs Inc.....	23
Desert Analytics Laboratory.....	22
Eastern Analytical Symposium.....	2
Eastern Scientific Co.	10
Front Run Organx	21
Jordi Associates, Inc.	22
Kelly Scientific Resources	8
Lab Support	6
Mass-Vac, Inc.....	17
Micron Inc.	21
Northeastern University.....	12
Notre Dame College	23
NuMega Resonance Labs	23
Organix, Inc.	22
Prime Organics	22
Quantitative Technologies, Inc.	22
Robertson Microlit Labs, Inc.....	19
RSP Amino Acid Analogues, Inc.....	18
Schwarzkopf Microanalytical.....	22
Scientific Bindery	21
SciVision.....	20
Spectral Data Services, Inc.....	22
Surfaces Research.....	23
Tekmatex, Inc.....	21

19 Mill Road
Harvard, MA 01451

THE NUCLEUS

NONPROFIT ORG.
U.S. POSTAGE PAID
NORTHEASTERN
SECTION
AMERICAN CHEMICAL
SOCIETY

Calendar

For additional information, call:

Boston Glycobiology - (781) 642-0025

Check NESACS Homepage for late additions:
<http://www.NESACS.org>

Note also the MIT Chemistry Department
Webpage calendar:
<http://web.mit.edu/chemistry/www/temp/seminars/pchemseminars.html>

and the Harvard Chemistry web site for updates:
http://www-chem.harvard.edu/events/Physical_Seminars.html
(which includes the Harvard/MIT joint seminars).

June 20

Dr. Obadiah Plante (MIT)
"Automated Synthesis of Oligosaccharides"
Boston Glycobiology Discussion Group
MIT Faculty Club, 6 pm
Call (781) 642-0025 for dinner reservations.

Notices for the Nucleus Calendar should be sent to:

Dr. Donald O. Rickter,
88 Hemlock St.,
Arlington, MA 02474-2157
e-mail: 72133.3015@compuserve.com

Council Meeting Reports

San Diego, April 4, 2001

The Section was represented by its full complement of 12 Councilors/Alternate Councilors at the meeting.

Action items at the Meeting:

(Unless stated otherwise, all NESACS representatives voted in favor of the respective motions)

Sunset Review of the Committee on Environmental Improvement and the Committee on International Activities. On recommendation of the Committee on Committees, both committees were continued by unanimous votes.

Bylaw Amendment to Increase the Size of Standing Committees (from the current 15 to 25). An amendment to the motion to limit the maximum size to 20 won approval (all your representative, except M.Singer voted in favor of the amendment). The main motion was overwhelmingly approved. This amendment will take effect on approval by the ACS Board of Directors.

2002 Dues The Budget and Finance Committee moved that the dues for 2002 be the calculated amount according to the bylaw provisions, to be \$112. Eleven of the NESACS Representatives voted in favor, M. Singer voted against the increase. The Council approved the dues of \$112.

CEPA ACS Academic Professional Guidelines. The 3rd edition of the guidelines presented by the Committee on Economic and Professional Affairs were approved.

The Committee on Local Section Affairs moved a change in the territory of the Savannah River Section and chartering a new Local Section: Middle Georgia, both with the approval of the adjacent Local Sections concerned. Both motions passed overwhelmingly.

M. Chen reported that the Admissions Committee, of which she is a member, discussed admission of those with a two-year degrees in Chemical Science and Chemical Technology, if followed by 5 years employment in the field.

C. Costello attended as a member the meeting of the Committee on International Activities. She also presented an invited paper at the Analytical Division Award Symposium.

Thomas R. Gilbert, an elected member of the Committee on Nomina-

tions and Elections, attended its meetings and has been asked to chair its Subcommittee on Election Procedures.

M.Hearn attended a meeting of Subcommittee Chairs of the Committee on Chemistry and Public Affairs.

M. Hoffman is the Program Chair for the Division of Chemical Education and is a consultant on the Society Committee of Education Task Force on Undergraduate Programming at National Meetings.

D.Lewis attended the National Chemistry Week Workshop and attended the Local Section Affairs Open Meeting.

A.Light is a member of Committee on Economic and Professional Affairs and its Subcommittee on Employment Services. She also worked at the National Chemistry Clearing House Information/Library.

T. Light worked at NECH throughout the meeting.

D.Rickter has been put on the President's Task Force on K-12 Education. ◇

Historical Notes

Louis W. Mead, 80, died on December 7, 2000 at his home in Lexington, Mass. after a long illness. He was a native of St. Louis and a chemical engineering graduate of Cornell University. As a member of the 4th Engineers Special Brigade during World War II he participated in amphibious landings in the Pacific theater. After the war he was employed in research at Oak Ridge, Tenn. and at M.I.T.

He founded several small firms that developed radiopharmaceutical diagnostic tests, some of which are currently used by hospitals. He was the founder of the Mount Agamenticus ski area in southern Maine.

James H. Parlman died on June 15, 1999 after a short illness. He was a 1943 graduate of the Worcester Polytechnic Institute and was a longtime member of ACS. He lived in Keene, N.H. and was survived by his wife. We regret that we have been unable to acquire additional material on his career from his estate.

to be continued