TOPICAL GROUP  5:30-6:30 P.M.

Dr. SonBinh Nguyen, Department of Chemistry, Northwestern University, Evanston, IL "Metal-Catalyzed Functional Group Transfer to Olefins".

1) Chirally-pure cyclopropanes are highly desirable intermediates for pharmaceutical and fine chemical syntheses. Arguably, the best way to synthesize chirally-pure cyclopropanes is via the stereospecific and catalytic addition of a carbenoid fragment to a prochiral olefin, the olefin cyclopropanation reaction. In spite of its long history in homogeneous catalysis, this reaction still poses a significant challenge for chemist in the stereoselectivity arena. Recent advances in stereoselective olefin cyclopropanation using a new class of Schiff-base late transition metal catalysts will be discussed with a focus on mechanistic studies and catalyst tuning. 2) Many high-oxidation-state metal-oxo porphyrins are potent catalysts for the epoxidation of olefins and the hydroxylation of hydrocarbons. They typically suffer, however, from chemical instability (e.g. bimolecular self-oxidation) and from a distinct lack of substrate specificity. Supramolecular functionalization and encapsulation offer compelling new ways of systematically resolving both problems. Our recent studies with potent manganese epoxidation catalysts and with designed "encapsulands" will be discussed as illustrations of the potential of supramolecular chemical approaches to impact both stability and selectivity.

SOCIAL HOUR  6:00-7:00 P.M.

DINNER  7:00 P.M.

Dinner reservations are required and should be received in the section office (847/647-8405) by noon on Tuesday, November 16, 1999. Dinner cost is $22 to Section members who have paid their local section dues, members' families, visiting ACS members. Cost to non-members is $24. Seating will be available for those who wish to attend the meeting without dinner. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinners ordered. No-shows will be billed.

The menu consists of French Onion Soup en Crouton Soup, tossed garden fresh salad, lemon herb chicken, whipped potato, vegetable medley, rolls and butter, strawberry cheesecake, and beverage. Broil orange roughy can be requested at time of reservation.

GENERAL MEETING  8:00 P.M.

THE TOPIC:

Derek A. Davenport, Professor Emeritus, Purdue University, West Lafayette, IN, "The Royal Institution of Great Britain: 1799-1999".

Founded in 1799 through the initiative of the pugnaciously brilliant Count Rumford, The Royal Institution still occupies its original building on Albermarle Street in the heart of London's fashionable West End. Furthermore it still adheres to its founding goals: the advancement of science and the presentation of science to the general public. Mere mention of Thomas Young, Humphry Davy, Michael Faraday, John Tyndall, James Dewar, W. H. Bragg, W.
L Bragg, and George Porter vouch for the quality of the science carried out within those hallowed walls. Starting with Davy and continuing most famously with Faraday, The Royal Institution's contribution to public outreach is equally legendary, spanning the technological transition from the twitchings of frogs' legs to global satellite TV relays.

**AWARD DEADLINE**

Nominations for the ACS Regional Award in High School Chemistry Teaching are due November 15, 1999. For more information or a nomination form, contact Cheryl Brown, Program Manager, 800/227-5558 ext. 6022 or e-mail c.brown@acs.org.

This is your chance to recognize that special high school teacher that has dedicated themselves to introducing and inspiring students to a career in chemistry.

**THE SPEAKER:**

Derek A. Davenport was born in Leicester, England, and obtained his early education there and in London. He received the B.Sc. and Ph.D. degrees from the University of London. In 1950 he came to the U.S. For what he expected to be a short stay. After a year at Reed College in Portland and two years at the Ohio State University, he joined Purdue University where he is now Professor of Chemistry.

His primary interests are in undergraduate and beginning graduate teaching and he was for many years head of Purdue's very large general chemistry program. He writes sparingly and lectures unsparingly on chemical education, the history of chemistry, and various mixtures of the two. From 1966 to 1979 he served on the Editorial Board of the Journal of Chemical Education and from 1979 to 1983 on its Board of Publication. During 1979 he was Chairman of the Division of Chemical Education and in 1985 served as Chairman of the Division of History of Chemistry. In 1995 he was awarded the Morley Medal of the Cleveland Section of the ACS for "outstanding contributions to chemistry".
This column is presented by the Elementary Education Committee. They hope that it will reach young children and help increase science literacy. Please cut it out and pass it on to your children, grandchildren, or elementary teachers. It is hoped that teachers will try to incorporate some of these projects in this column into their lesson plans.

"Egg Engraving"

Kids, let's use some chemistry to engrave your name on a hard boiled egg. It's actually a process of reverse-engraving, because we'll make all of the shell disappear except for your name!

First, your adult partner will have to hard boil some eggs for you (only one is needed for the experiment, but you can always eat the extras). With a china marking pencil or a wax crayon, print your initials or your first name, large and fairly thick, on the shell of a hard boiled egg. Now put the egg in a glass large enough to hold it and add enough fresh white vinegar to cover it. Tiny bubbles should form on the egg which show that the acid in the vinegar is reacting with the shell. The shell under the waxy letters is protected from this acid action. In an hour or two, when the bubbling stops, replace the now neutralized vinegar with a fresh supply. After another two hours wash off the egg under running water. Rub your fingers over the letters and they should stand out in relief.

You can even try to gently remove the wax coating with a soft brush and scouring powder under running water. An average eggshell is .094 inches thick. It's made of 3.5% protein, 1.5% water, and 95% calcium carbonate mineral. It is this CaCO₃ mineral that reacts with the acetic acid in vinegar. If half of the shell has dissolved during the four hours, then it has only about an .05 inch-thickness left. So be careful!

If you are interested, the very first ChemShorts column (published way back in January 1992) was called "The Naked Egg" and tells you how to completely dissolve an eggshell.


"ChemShorts" are on the internet at: http://membership.acs.org/C/Chicago/ChmShort/kidindex.html

KATHLEEN CARRADO
Elementary Education Committee.

DESER T
ANALYTICS

LABORATORY

- CHNOSP Halogens
- Metals by AA
- 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

Analysis For The Chemical Elements

Providing Excellence—
For The Entire Scientific Community.

Kelly Scientific Resources™ offers a full range of services for short- and long-term staffing in the scientific and laboratory environments. As a community and nationwide leader, KSR™ is an asset to employers and employees...

As a business leader, you can use KSR to meet today's work challenges with efficient, full-service staffing delivered with the highest quality standards.

As a scientific professional, you can use KSR to get ahead. Being represented by a leading staffing supplier means you have access to outstanding opportunities in the scientific community.

Fax your resume to 630-964-0562.
For details, call today! 630-964-0239
1101 W. 31st Street, Suite 120
Downers Grove, IL 60515

Kelly Scientific Resources™
A unit of Kelly Services, Inc.
www.kellyservices.com
An equal opportunity employer/never an applicable fee ©1997 Kelly Services, Inc.
POLYMER LAB, CONSULTING, R&D SERVICES

Pol~er Analysis
Rheology
Mech.Test.
Failure Analysis

Thermal Analysis: DSC, TGA, TMA, DMA
Infrared Micro, Reflection, Pyrolysis
Molecular Weights: GPC, IV, Dilute Soln.
Microscopy: Optical, Stereo-SEM/EDX
Chromatography: HPLC, SEC, GC/FTIR
Rheology: Dynamic, Capillary
Mech.Test: Strength, Impact, Creep, Fatigue

For capabilities literature please call:
L.J. Broutman & Assoc., Ltd. 3424 S. State St., Chicago, IL 60616
312 842 4100 Fax 312 842 3583

POLYMER LAB
CONSULTING
R&D SERVICES

CPCS ANALYTICAL SERVICES
We may have the Resources and Technical Expertise to help you achieve your goals
Call us regarding projects involving
GC HPLC Preparative HPLC SFC SFE HRMS
GC-MS LC-MS LC-MS-MS 600 MHz NMR ICP-AES GFAA EDX
Py-GC-IR-MS Headspace and Purge and Trap analysis by GC-MS
Spectral interpretation • Synthesis of analytical standards
Product troubleshooting

Contact Joe Hoppesch • 847-270-5805
e-mail: hoppesj@baxter.com
CENTER FOR PHYSICAL AND CHEMICAL SCIENCES
A Member of CRTS, Baxter Healthcare Corp.

YASUI SEIKI CO., (USA)
Coating Development Laboratory

*State-of-the-art Yasui Coaters
*UV curing and impingement drying

Contact us at:
2333 Industrial Drive, STE 2A3
Bloomington, IN 47404
Ph: 812 331-0700 Fax: 812 331-2800
e-mail: yasui@ix.netcom.com
http://www.yasui.com

SURFACE ANALYSIS
can help you better understand
catalysis • corrosion • chemical bonding •
semiconductor processing • soldering •
fluorescence efficiency • thin film properties •
composites • metals • ceramics

3-D Elemental Maps and Depth Profiling
Local Service - Participate in your analysis
Fast Turn Around - <48 Hrs.
Scanning Auger and ESCA at SEM Prices

BP Vacuum Analysis, Inc.
Tel (847) 467-2594
Northwestern University/Evanston Research Park
906 University Place, Evanston, IL 60201
FAX (847) 491-7955 E-Mail: BPVA@aol.com

OUTSTANDING PEOPLE

Lab Support is the leader in the scientific professional staffing industry. We specialize in placing qualified degreed scientists on short and long term assignments in laboratories in over 50 major markets throughout the United States and Canada.

All of our Account Managers make “Quality Assignments” because they have a background similar to that of our clients and of our employees.

If your company is looking for outstanding lab personnel or if you’re an outstanding scientist seeking a new career offering variety, opportunity and a great benefit package, call Lab Support.

O’Hare area . . . . . . . (847) 699-4004
Tinley Park area . . . (708) 403-0231
Other Branches Nationwide . . (800) 998-3332
www.labsupport.com

LAB SUPPORT
Science Professionals On Assignment
LEGISLATIVE ACTION CENTER

In an effort to promote ACS member involvement and to increase the Society's impact on public policy, the ACS has just added a Legislative Action Center to its Government Affairs web site, located at http://www.legislators.com/chemical/. ACS recently sent an e-mail to ACS members, whose e-mails have been identified, encouraging them to use this center. The new center allows ACS members to identify their federal legislators, learn about the legislative process and key issues, and send letters or e-mail messages to Congress.

The Legislative Action Center comes in response to requests from ACS members to increase the Society's impact on Capitol Hill and to decrease the time it takes to communicate with policymakers. The Center also will be the essential tool for members participating in the Society's Legislative Action Network -- a web-based grassroots program for updating ACS members on federal issues and facilitating contact with members of Congress. Using this interactive web site, Legislative Action Network participants now will be able to respond to timely legislative action alerts within minutes, alerting members of Congress to the concerns of ACS members before votes on R&D, education, and other key issues.

"The Action Center essentially will be a one-stop shop for all members to learn about ACS priority issues, profile their Representative and two Senators, and, if desired, send a message simultaneously to all three," said David Schutt, Assistant Director of the Office of Legislative and Government Affairs. "We hope those members not already participating in our grassroots networks will sign-up for the Legislative Action Network and take advantage of this first-rate system." Network participants also will receive monthly legislative bulletins via e-mail, to keep current on science education, R&D funding, the environment and other priority issues. To participate in the Legislative Action Network, sign up online at http://www.acs.gov/legis/gcy/networks.html or send your name, e-mail, member #, and home address to grassroots@acs.org.

OFFICE NOTES

As this is being written, we have just completed taking reservations for the September meeting. The Board has held two regular monthly meetings, our councilors have given us full representation at the National ACS meeting and all of the committees are in full swing. If you have not yet volunteered for committee work, it is not too late. Call, fax or e-mail the section office and we will be glad to put you in touch with any committee that interests you.

As you will notice, this article for the November issue of the Bulletin is being written in mid-September. Due to the time requirements for editing, typesetting, printing and mailing, there is a very long lead time for the Chemical Bulletin. And, because this and my other submissions are about a week late, our long-suffering editor, Fran Kravitz, will have to speed through her work to make sure you receive this issue on time.

If you just can't wait for the latest information about Section activities, visit the website. Thanks to the tremendous efforts of Milt Levenberg of Abbott Labs, you can find the program for the year, Chem Shorts, reports of committee activities and even a photo gallery of Section luminaries. Milt has also made it possible for you to make your reservations for the monthly meetings from the website. As with any well managed website, it is constantly changing. Visit often. You won't be disappointed.

PUBLICATIONS AVAILABLE

In addition to the ACS guidelines booklet, the ACS Committee on Professional Training (CPT) has several free publications that are available to assist faculty and undergraduates in the chemical or related sciences. This list includes the supplements to the ACS guidelines that include suggestions on topics that might be taught in most of the major subdisciplines of chemistry.

The CPT Annual Report gives a summary of the activities carried out by CPT each year. It also lists each ACS-approved institution with the numbers of bachelor's, master's, and Ph.D. degrees granted in chemistry and chemical engineering. This report is published in Chemical & Engineering News and is available on the web.

Additional copies of the current CPT Newsletter are available. Past issues of the newsletter also may be requested.

There are two brochures that are available for undergraduates. One is Planning for a Career in Industry. Prepared by CPT with the ACS Committee on Corporation Associates, this brochure is designed to provide advice for undergraduate chemistry students who plan to enter the work force upon graduation. It includes suggestions about curriculum planning as well as a broader discussion about career options and opportunities. The brochure concludes with a bibliography of resources on career planning available to undergraduates and their advisors.

The other brochure is the sixth edition of Planning for Graduate Work in Chemistry written for anyone considering graduate work in chemistry or chemically related disciplines. It offers suggestions on the preparation for and selection of graduate programs, as well as the application process for graduate school.

Requests for copies (free of charge) of any of the publications listed above may be made by letter to the Office of Professional Training, 1155 16th St., NW, Washington, DC 20036, by E-mail to cpt@acs.org, or by phone to (202) 872-4589. The ACS guidelines, brochures, the recent newsletters, and the most recent annual report are also accessible via the World Wide Web at http://www.acs.org/cpt/np.htm.

SCHWARZKOPF

MICROANALYTICAL LABORATORY

ELEMENTAL & TRACE ANALYSIS
ORGANICS, INORGANICS,
ORGANOMETALLICS

METALS BY ATOMIC ABSORPTION
FUNCTIONAL GROUPS
MOLECULAR WEIGHT
CALORIMETRY (B.T.U. VALUE/lb.)
METAL CORROSION ANALYSIS

CUSTOM ANALYSIS TO FIT YOUR PARTICULAR NEEDS
Routine Analysis - 5 Business Days

Write or Call for Our Brochure
56-19 37th Ave., Woodside, N.Y. 11377
(718) 429-6248

STN ON THE WEB

CAS reports that the STN on the Web is now available and receiving very positive feedback. Check it out at: http://stnweb.cas.org
SUMMER 2000 RESEARCH OPPORTUNITIES

TITLE OF PROGRAM: Summer programs in Japan, Korea and Taiwan (NSF 99-152)

SPONSORS: National Science Foundation (NSF), National Institutes of Health/Fogarty International Center (NIH/FIC), and U.S. Department of Agriculture/Agricultural Research Service (USDA/ARS)

OVERVIEW: The Summer Institute in Japan, the Monbusho Summer program, the Summer Institute in Korea and the Summer Institute in Taiwan provide graduate students in science and engineering first-hand experience in Japanese, Korean and Taiwan science and engineering in the context of a research laboratory and to initiate personal relationships that will better enable them to collaborate with foreign counterparts in the future. The programs will last approximately eight weeks from mid-June to August.

ELIGIBILITY: Applicants must be U.S. citizens or permanent residents; be enrolled at a U.S. institution in a science or engineering Ph.D. program, be enrolled in a M.D. program and have an interest in biomedical research, or be enrolled and completed at least one full academic year in a masters degree program at the end of the calendar year of application; and pursuing studies in fields of science or engineering that are supported by NSF, NIH or USDA, and also are represented among the potential host institutions.

SUPPORT: International travel costs to and from Japan, Korea or Taiwan, in-country living costs (accommodations, food and professional travel), and an allowance of $2,500 for each participant will be provided.

DEADLINE: All application materials (including applicant's and recommenders' forms) should be sent to the NSF East Asia and Pacific Program (NSF/EAP) at the address shown below and must be POSTMARKED by December 1, 1999:
East Asia and Pacific Program
Room 935
Division of International Programs
National Science Foundation
4201 Wilson Boulevard
Arlington, VA 22230

FURTHER INFORMATION: Students may study and work at one of a variety of government, corporate, and university research laboratories, depending on the specific program. Full description of the Summer programs, including potential host institutions and application instructions, are available at the NSF/Tokyo Website: http://www.twics.com/~nsftokyo/ [Select “Summer programs” from the opening screen menu bar.]

Direct questions to Dr. Christopher A. Loretz at NSF/EAP by e-mail (cloretz@nsf.gov) or by telephone (703-306-1701).

RESOLUTION SYSTEMS

Now offering premium products for HPLC, SPE, LC-MS and Automated SPE from the technical experts at Jones Chromatography.
1167 Wilmette Ave, Ste. 277
Wilmette, IL 60091
(847) 328-8002
www.resolutionsys.com

MOLECULAR TOXICOLOGY LABS

In Vitro & Aquatic Toxicity Testing
Drug Deformulation HPLC, GC, IC, AA
Preparative Small Scale LC
Chicago, Ill. (773) 274-3658

micron inc.

ANALYTICAL SERVICES

SEM - TEM - EPA - ESCA - AUGER
XRF - XRD - OES - FTIR - DSC

MORPHOLOGY - CHEMISTRY - STRUCTURE
3815 LANCASTER PIKE, WILMINGTON DE. 19805
(302) 998-1184

Chemir / Polytech Laboratories, Inc. (314) 291-6620
2672 Metro Blvd. Maryland Heights, MO 63043
http://www.chemir.com

Analytical Services
- Preparative HPLC separations
- Flash chromatography to kilo scale
- NMR, IR, MS, HPLC, and GC analysis
- Reference standard analysis

Custom Synthesis
- Full service prep and kilo laboratories
- Pharmaceutical intermediates
- Analogs of lead compounds
- GMP synthesis production

Combinatorial chemistry
- Solid and solution phase libraries
- Custom libraries of your design
- High-throughput HPLC purification

MediChem accelerates discovery!

MediChem Research, Inc.
12305 South New Avenue
Leomont, IL 60439
Phone (630) 257-1500 • Fax (630) 257-1505
www.medicem.com
Thomas J. Meyer, Kenan Professor of Chemistry and Vice Provost for Graduate Studies and Research at the University of North Carolina (UNC) at Chapel Hill, received the 1999 Fred Basolo Medal of the Department of Chemistry at Northwestern University. Professor Meyer was chosen for the Award for his "brilliant research in diverse areas of inorganic chemistry". The Award presentation, followed by a lecture by Professor Meyer entitled, "Proton-Coupled Electron Transfer", was held on October 29, 1999.

The Award consists of a Medal and an honorarium. Awarded annually since 1991 for outstanding research in inorganic chemistry, the Medal was established by former students and postdoctorates of Basolo in appreciation for his seminal contributions to inorganic chemistry at Northwestern. Previous recipients are Ralph G. Pearson, Henry Taube, Jack Halpern, Harry Gray, Lawrence Dahl, Richard H. Holm, Kenneth N. Raymond, and Malcolm Green.

Thomas Meyer was born in 1941 in Dennison, Ohio, received his BS degree summa cum laude from Ohio University in 1963 and his PhD degree from Stanford University where his research mentor was Professor Henry Taube. Professor Meyer was appointed Assistant Professor in 1968 at the UNC where he has remained throughout his academic career. He has served as Chair of Chemistry and of the Applied Sciences Curriculum and is currently on the Boards of the NC Board of Science and Technology, Research Triangle Institute, NC Biotechnology Center, and Triangle Universities Center for Advanced Studies Inc.

Professor Meyer has served as visiting lecturer or visiting scholar at many universities throughout the United States and abroad, and has been recipient of a number of awards which have recognized his contributions as a teacher and scholar, including induction into both the National Academy of Sciences and the American Academy of Arts & Sciences.

The research interests of Professor Meyer and his group extend over a number of areas of chemistry. They include mechanisms and catalysis of oxidation-reduction reactions, photochemical electron and energy transfer, artificial photosynthesis, and interfacial Chemistry in thin films and molecular layers.

CHERLYN BRADLEY

PROTECT
Your Expensive Lab Work with Research and Development Record Books

STOCK RECORD BOOKS
B50D — Fifty original and fifty duplicates. ¾ inch sqs. on right pages.
B100P — 100 — ¾ inch sqs. on right pages. 100 — 10 sqs. per inch on left pages.
B200P — 208 ¾ inch sqs. on right and left pages.
B200PH — 208 horizontally lined right and left pages.
Books have instruction and TOC'S.
Page size 11 x 8½.
Now on hard extension covers with squared corners and flat back so titles show up. All on acid free paper.

$13.50 Each, FOB Chicago
CUSTOM MADE BOOKS TO ORDER OUR 87th YEAR

SCIENTIFIC BINDERY PRODUCTIONS
1255 So. Wabash Ave., Chicago, Illinois 60605
Phone: 312-939-3449
Fax: 312-939-3787
November 12-14, 1999. The ASTM Committee E-47 on Biological Effects and Environmental Fate will meet in conjunction with SEATAC at the Marriott Philadelphia in Philadelphia, PA. For more information call Len Morrissey, ASTM at (610) 832-9730.

November 14-19, 1999. The 38th Annual Eastern Analytical Symposium & Exposition will be held in Somerset, New Jersey. For further information call (302) 738-6218.

December 5-10, 1999. The American Chemical Society in cooperation with Virginia Tech presents "Polymer Chemistry: Principles and Practice" (PCPP9912) at the Four Points Hotel by Sheraton in Blacksburg, Virginia. For additional information call the ACS Short Course Office at (800) 227-5555, ext. 4508.

December 8-10, 1999. The ASTM Committee C-1 on Cement will meet at the Hyatt Regency Hotel in New Orleans, LA. For more information contact Jim Olshefsky, ASTM at (610) 832-9714.

December 10, 1999. The Chicago Section American Chemical Society presents Cady Coleman on "NASA and the STS-93 Mission" to be held at Monasteros in Chicago. For additional information call the Section office at (847) 647-8405.

December 12-17, 1999. The 5th US-Japan Symposium on Drug Delivery Systems will be held at the Westin Maui, Kaananaoli Beach in Lahaina, Hawaii. For further information call Constance J. Beal, Symposium Administrator at (617) 258-5290.

January 21, 2000. The Chicago Section American Chemical Society presents John Parlow on "Polymer-Assisted Solution Phase (PASP) Chemical Library Synthesis" to be held at Ambassador in Elmhurst. For more information call the Section office at (847) 647-8405.

February 25, 2000. The Chicago Section American Chemical Society presents West Chris Marshall on "New Support Materials for the Desulfurizations of Heavy Oils" to be held at The Diplomat in Elmhurst. For additional information call the Section office at (847) 647-8405.

March 17, 2000. The Chicago Section American Chemical Society presents Public Affair Night to be held at Como Inn in Chicago. For further information call the Section office at (847) 647-8405.

March 26-31, 2000. The Corrosion/2000, NACE's (The Corrosion Society) 55th Annual Conference and Exhibition will be held in the Orange County Convention Center in Orlando, Florida. For more information call (281) 228-6223.

April 14, 2000. The Chicago Section American Chemical Society presents Peter Maul on "Nanocomposites" to be held at North Shore Holiday Inn in Skokie. For additional information call the Section office at (847) 647-8405.

May 19, 2000. The Chicago Section American Chemical Society presents the Willard Gibbs Award Banquet to be held at Windows Restaurant in Skokie. For additional information call the Section office at (847) 647-8405.