



The TarHelium

Volume 23, Number 4

December 1992

14th North Carolina Distinguished Speaker Award Tuesday, December 8, 1992

Maurice S. Brookhart
University of North Carolina, Chapel Hill

"Catalytic Transformations Using Electrophilic
Organometallic Complexes"

Also Presentations and Recognitions:

NC High School Chemistry Teacher Award
Chairman's Award

Undergraduate Scholarship Awards
Project SEED Participants

Student Affiliate Chapter at Durham Technical College
TCDG Scholarship Contribution

Von Canon Hall C at the Bryan Center and
Fritz London Lecture Hall
P. M. Gross Laboratory, Duke University

6:30 p.m. Social Hour at the Bryan Center

7:00 p.m. Dinner[†] at the Bryan Center (members/guests: \$15; students/high school teachers \$7.50)

8:15 p.m. Awards and Lecture--Fritz London Lecture Hall, P.M. Gross Laboratory

[†]Please make reservations no later than 5:00 p. m., Thursday, December 3. You may make or cancel reservations at the following locations: In Chapel Hill call Becky Smith, 962-2172; in Durham, Bonnie Turner, 660-1506; in Raleigh, Joyce Dunn, 515-2545; in Fayetteville, Sandra Smith, 486-1571; or by e-mail at Internet: bill_switzer@ncsu.edu

Polymer Group: December 10, N. Bikales from the National Science Foundation will speak on "Fundable Polymer Research". The Polymer Group meets at the NCSU Faculty Club at the intersection of I 440 (the Raleigh Beltline) and Hillsborough Street. Social Hour at 5:30 p. m., Dinner at 6:30 p. m. and Lecture at 7:30 p. m. Reservations by noon, December 8, with Walter Pawlowski (919) 543-2243 (IBM-RTP).

The TarHelium
c/o William L. Switzer, Editor
Department of Chemistry-8204
North Carolina State University
Raleigh NC 27695-8204

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Columbus, OH 43210

If you wish to receive announcements of Local Section ACS events by electronic mail, please submit your e-mail address to the Internet address given above for the Editor.

Deadline
January Publication
Friday, December 11, 1992

Publication Policy

The *TarHelium* will be published eight times a year but the format may change to suit the material that must be published. Public lectures and seminars as well as announcements of interest to the ACS membership will be listed as deemed appropriate by the editor and as space permits. Short commentaries or contributed articles will also be considered. Also, we are happy to publicize, free of charge, any job openings for chemists. (We also accept paid advertisements for more extensive recruiting announcements.) The **Deadline** for each publication is usually the end of the first week of the month prior to publication, but may be earlier if monthly meetings are scheduled earlier.

Election Results

The new Section officers are:

Chair Elect:
Michael T. Crimmins (UNC)

Treasurer:
Joan T. Burse (Radian)

Councilor ('93):
Eric C. Bigham (BW)

Councilor ('93):
William F. Little (UNC)

Alternate Councilor ('93):
Jack Preston (RTI)

Alternate Councilor ('93):
Suzanne T. Purrington (NCSSU)

Amendments:
All five amendments to the by-laws passed.

(cont.) Symposium: "Innovations in Therapy of Human Viral Diseases"

Morning, December 8, Dr. W. H. Prusoff (Yale University School of Medicine) Session Chair

- Dr. E. De Clercq, Rega Institute, "Viral Target Enzymes for Nucleotide and Nucleotide Analogs"
- Dr. B. Larder, The Wellcome Research Laboratories, "Molecular Mechanisms of Antiviral Drug Resistance"
- Dr. M. Matteucci, Gilead Sciences, "The Antiviral Potential of Oligonucleotide Analogs"
- Dr. R. C. Liddington, Dana Farber Cancer Institute, "Crystal Structures and Drug Design"

Afternoon, December 8, Dr. B. R. Cullen (Duke University Medical Center) Session Chair

- Dr. E. Gilboa, Memorial Sloan-Kettering Cancer Center, "Intracellular Immunization Against HIV: A Gene Therapy Approach for the Treatment of AIDS"
- Dr. E. S. Vitetta, The University of Texas, "Immunotoxins Which Target HIV-Infected Cells"
- Dr. C. H. Evans, National Cancer Institute, "Cytokine Molecular Target Interactions and the Design of Antiviral Biotherapeutics"

Morning, December 9, Dr. M. R. Hilleman (Merck Sharp and Dohme Research Laboratories) Session Chair

- Dr. R. M. Chanock, National Institute of Allergy and Infectious Diseases, "New Techniques for Generation of Human Viral Antibodies: Application of Such Antibodies to Prevention and Treatment of Viral Diseases"
- Dr. T. J. Braciale, University of Virginia, "Viral Antigen Presentation and Cellular Immune Recognition: The Lessons for Model Systems"
- Dr. B. Moss, National Institute of Allergy and Infectious Diseases, "Recombinant Vaccinia Virus Vectors"
- Dr. S. L. Katz, Duke University Medical Center, "Policy Issues in the Development and Utilization of Vaccines"

.....
Wellcome Symposium: "Innovations in Therapy of Human Viral Diseases"

3030 Cornwallis Rd.
Research Triangle Park NC 27709-2700

Name: _____

Affiliation: _____

Address: _____

City: _____ State: _____ Zip: _____

Country: _____ Phone () _____ Fax: _____

Tuition: \$150/\$75 Graduate Students

Calendar

- Dec 2 J. A. Wells, Genentech, "The Molecular Endocrinology of Human Growth Hormone", 11:00 a. m., UNC-CH
- Dec 3 D. Salahub, University of Montreal, "Structure and Properties of Transition-Metal Clusters Revealed by Density Functional Theory", UNC-CH
- Dec 3 G. Sancar, the University of North Carolina, Chapel Hill, "DNA Photolyase: A Unique Flavoenzyme which is Damage Inducible", NCSU-BC
- Dec 4 D. R. Salahub, University of Montreal, "Quantum Molecular Modeling with Density Functional Theory", Duke
- Dec 6-9 Symposium(see program below), "Innovations in Therapy of Human Viral Diseases", Sheraton Imperial RTP, BW
- Dec 7 M. Lautens, University of Toronto, "Stereochemical Control via Bicyclic and Acyclic Templates", 9:00 a. m., BW
- Dec 7-8 A. Patchett, Merck Sharp and Dome, "Angiotensin Converting Enzyme Inhibitors", 1st Avery Steelman Lecture; UNC-CH
- Dec 8 M. S. Brookhart, University of North Carolina, Chapel Hill, "Catalytic Transformations Using Electrophilic Organometallic Complexes", **ACS NC Distinguished Speaker**, 8:15 p. m., Gross Laboratory, Duke
- Dec 10 N. Bikales, National Science Foundation, "Fundable Polymer Research", **Polymer**
- Dec 10 V. A. Lucow, Monsanto, "Efficient Generation of Infectious Recombinant Baculoviruses by Site-specific, Transpon-mediated Insertion of Foreign Genes into a Baculovirus Genome Propagated in *E. Coli*", NCSU-BC
- Dec 16 L. Brass, "Structure and Function of the Thrombin Receptor", 9:00 a. m., BW

ACS-American Chemical Society monthly meeting

Polymer-ACS Polymer Discussion Group

Duke (Chemistry) seminars at 3:30 p.m. Call Carolyn Bean at 660-1506 for information.

NCSU (Chemistry) seminars at 3:30 p.m. Call Joyce Weatherspoon at 515-2548 for information.

NCSU-BC (Biochemistry) seminars at 4:00 p.m. Call Pat Sullivan 515-2581 for information.

UNC-CH (Chemistry) seminars as noted. Call Becky Smith at 962-2172 for information.

BW (Burroughs Wellcome) seminars as noted.

Index to the Advertisers

Beckman - p. 11

Galbraith Laboratories, Inc. - p. 6

Huffman Laboratories, Inc. - p. 12

INDOFINE Chemical Company, Inc. - p. 8

Micron Inc. - p. 7

Oneida Research Services - p. 5

Quantitative Technologies, Inc. - p. 13

14th NC Distinguish Speaker Award

The North Carolina Distinguished Speaker Award was established in 1982 to recognize outstanding chemists in North Carolina. The inaugural lecture was given by current ACS President, Ernest L. Eliel from the University of North Carolina, Chapel Hill. Other speakers include Edward M. Arnett, Duke University; Ned A. Porter, Duke University; Robert G. Parr, the University of North Carolina, Chapel Hill; Vivian T. Stannett, North Carolina State University; Nobel Laureate, Gertrude Elion, Burroughs Wellcome Company; Mary Ellen Jones, the University of North Carolina, Chapel Hill; Nobel Laureate, George H. Hitchings, Burroughs Wellcome Company; Pedro Cuatrecasas, Glaxo; Irwin Fridovich, Duke University; Royce W. Murray, the University of North Carolina, Chapel Hill; Richard Wolfenden, Duke University and Bertram O. Fraser-Reid, Duke University. The fourteenth recipient is Maurice S. Brookhart, the University of North Carolina, Chapel Hill.

Maurice S. Brookhart is William R. Kenan, Jr. Professor of Chemistry at the University of North Carolina, Chapel Hill. Dr. Brookhart received his BA degree from Johns Hopkins University and his Ph. D. from the University of California at Los Angeles. After post doctoral appointments at UCLA and at Southampton University in England, he joined the faculty at UNC as an assistant professor in 1969. He has published over one hundred papers in the area of organometallic chemistry. In 1984 he was a co-organizer of an NSF Organometallic Workshop. In 1986 he was chairman of the Gordon Research Conference on Organometallic Chemistry. In 1987 he was chairman of the Organometallic Subdivision of the Inorganic Division of the ACS. From 1987-89 he served on the Editorial Advisory Board of Organometallics where he became Associate Editor in 1990. From 1989-91 he served on the ACS Petroleum Research Fund Advisory Board. In 1989 he was co-organizer of the Organometallics Symposium at the Southeastern Regional ACS meeting. Earlier this year he received the 1992 ACS Award in Organometallic Chemistry.

Abstract: The focus of much of our recent work has been the design and development of highly electrophilic, late transition metal complexes for use as catalysts in a variety of transformations. Examples of homogeneous catalytic reactions studied include living polymerization of ethylene, hydrosilation of α -olefins, dimerization of olefins including functionalized olefins, and living alternating copolymerization of olefins with CO to produce polyketones. The basic chemistry of several of these systems will be described together with detailed mechanistic analyses which have led to modification and optimization of catalytic systems.

1992 NC Section Awards and Presentations

The December meeting is also the occasion for presenting a number of awards by the Local Section. In addition to the NC Distinguished Speaker Award, the High School Chemistry Teacher Award will be presented to **Sara Allen** from the North Carolina School of Science and Math and the Chairman's Award will be named at the meeting. Also the Section will use this occasion to recognize the recipients of the six Undergraduate Scholarships announced in the September *TarHelium* and the three participants in the 1992 Project SEED program. This occasion will also be used to install an ACS Student Affiliate Chapter at Durham Technical College and to receive

a contribution to the Scholarship Fund from the Triangle Chromatography Discussion Group, one of our Local Section discussion groups.

TCDG Donates to ACS Scholarship Fund

The Triangle Chromatography Discussion Group (TCDG) will present a check for \$1000 to the ACS Scholarship Fund at the December meeting at Duke. This donation represents a continuing effort on the part of the TCDG to support scholarship activities of the Local Section. In May of 1993, the TCDG will sponsor the 10th Triangle Chromatography Symposium and Instrument Exhibit. The group is celebrating the event by initiating what is expected to become an annual contribution. TCDG Chairman, Lou Jones (retired from NCSU and now of YMC, Inc., Wilmington NC) will make the presentation.

BW Awards Grant to the NCACS

Burroughs Wellcome Company has awarded a grant to the NC Section of the ACS to purchase 770 subscriptions to *WonderScience*. This number should be approximately enough to supply one subscription to each grade level in the elementary and middle schools in Wake, Durham, Orange and Chatham Counties.

WonderScience is a joint publication of the ACS and American Institute of Physics aimed at pre-high school students. Published eight times during the school year, each issue describes a number of science activities that teachers can do with students or parents can do with children. Individual subscriptions can be obtained for \$5 plus \$2.50 for each address through the Office of Public Outreach at the ACS national office or by contacting Dr. Eric Bigham (919-248-4338) at Burroughs Wellcome Co., 3030 Corwallis Rd, Research Triangle Park NC 27709.

The grant was awarded through the Community Service Program at Burroughs Wellcome. Created in 1988, the Community Service Program supports specific projects or events in recognition of an employee's volunteer efforts. Employees apply for quarterly awards on behalf of the nonprofit organization for which they volunteer. In fiscal year 1991-92, Burroughs Wellcome contributed \$276,795 to nonprofit organizations through its Community Service Program.

Burroughs Wellcome researches, develops, manufactures and markets pharmaceutical products. Its headquarters are located in the Research Triangle Park NC and its manufacturing facility is located in Greenville NC. The Company also has an 800-person sales staff located throughout the US.

The grant was secured through the efforts of Dr. Eric Bigham. Eric has been active in the Local Section for many years. He served as Treasurer from 1981-1984, as Chair Elect and Chair 1985-86 and as Alternate Councilor 1990-1992. He was elected Councilor in the recently completed elections.

- CH 503 Advanced Inorganic Chemistry II, 3 credits, 10:15-11:05 MWF, Cornman
- CH 513 Advanced Analytical Chemistry II, 2 credits, 9:10-10:00 MW, Hanck
- CH 514 Electronics Instrumentation Laboratory, 1 credit, TBA, Hanck
- CH 523 Advanced Organic Chemistry II, 3 credits, 11:20-12:10 MWF, Linderman
- CH 525 Physical Methods of Organic Chemistry, 3 credits, 1:30-2:20 MWF, van Breemen
- CH 533 Chemical Kinetics, 3 credits, 8:05-8:55, MWF, Carmichael
- CH 536 Chemical Spectroscopy, 3 credits, 12:25-1:15 MWF, Ebisuzaki
- CH 539 Colloid Chemistry, 3 credits, 9:50-11:05 TTh, Getzen
- CH 595M Solid State NMR, 3 credits, 4:05-5:20 TTh, Stejskal
- CH 613 Electrochemistry, 3 credits, 1:05-2:20 TTh, Bowden
- CH 695H Heterocycle Chemistry, 3 credit, 9:10-10:00 MWF, Comins

UNC: Contact the Division of Continuing Education, Continuing Studies at 962-1134 or write: Continuing Studies CB 1020, Friday Center UNC-CH, Chapel Hill NC 27599-1020 for registration information or Kathy Justice, Office of Graduate Studies, 966-4098, for information about course offerings.

- CH 101 Special Problems in Chemistry, variable credit, TBA, Jorgenson
- CH 122 Physical Chemistry of Polymers, 3 credits, 9:00-9:50 MWF, Dearman
- CH 124L Polymer Chemistry Laboratory, 2 credits, 1:00-4:50 M, DeSimone
- CH 130 Introduction to Biological Chemistry, 3 credits, 9:30-10:45 TTh, Thompson
- CH 131 Nucleic Acid Chemistry, 3 credits, 9:00-9:50 MWF, Spemulli
- CH 141 Intermediate Analytical Chemistry, 2 credits, 11:00-11:50 MWF, Murray
- CH 145 Electroanalytical Chemistry, 3 credits, 9:30-10:45 TTh, Buck
- CH 146 Analytical Spectroscopy I, 3 credits, 11:00-12:15 TTh, Linton
- CH 152 Electronic Structure, variable credit, 9:00-9:50 MWF, Hatfield
- CH 167 Advanced Organic Chemistry II, 2 credits, 10:00-10:50 MWF, Evans
- CH 168 Synthetic Aspects of Organic Chemistry, 3 credits, 8:00-9:15 TTh, Sorrell
- CH 182 Physical Chemistry II, 3 credits, 8:00-8:50 MWF, Johnson
- CH 187 Introduction to Molecular Spectroscopy, 3 credits, 11:00-11:50 MWF, Miller
- CH 188 Quantum Chemistry, 3 credits, 8:00-8:50 MWF, Parr
- CH 192 Electronic Materials Processing, 3 credits, 9:00-9:50 MWF, Irene
- CH 193 Chemistry and Physics of Surfaces, 3 credits, 9:30-10:45 TTh, Jarnagin
- CH 232 Seminar in Biological Chemistry, 2 credits, 12:00-12:50 W, Pielak
- CH 243 Literature Seminar in Analytical Chemistry, 2 credits, 12:00-12:50 M, Bursey
- CH 254 Literature Seminar in Inorganic Chemistry, 2 credits, 11:00-12:15 W, Meyer
- CH 262 Seminar in Organic Chemistry, 2 credits, 12:00-12:50 F, DeSimone
- CH 282 Seminar in Physical Chemistry, 2 credits, 3:30-5:00 Th, Johnson
- CH 265 Special Topics in Organic Chemistry, 2 credits, 9:30-10:45 TTh, Kropp, Crimmins and Forbes

December 7 Morning, Dr. J. S. Pagano (The University of North Carolina, Chapel Hill) Session Chair

- Dr. B. Roizman, The University of Chicago, "What Do Herpes Simplex Virus Gene Products Do?"
 Dr. D. Ganem, University of California, San Francisco, "The Reverse Transcription Pathway of Hepatitis B Viruses"
 Dr. P. M. Howley, National Cancer Institute, "The Papillomaviruses and Human Cancer"
 Dr. N. W. Fraser, The Wistar Institute, "Herpes Simplex Virus Latency"

December 7 Afternoon, Dr. B. N. Fields (Harvard Medical School) Session Chair

- Dr. R. G. Webster, St. Jude Children's Research Hospital, "Structure and Evolution of Influenza Viruses"
 Dr. I. S. Y. Chen, University of California, Los Angeles, "Mechanisms of HIV-1 Persistence and Cell Tropism"
 Dr. S. S. Morse, The Rockefeller University, "Probing the Origins of Emerging Viruses"
 Dr. C. M. Wilfert, Duke University Medical Center, "Laboratory Diagnosis and the Treatment of Virus Infections"
 (Program continued p. 19)

Graduate and Special Topic Courses in Spring '93

Duke: Contact Ms. Earlene Beamon, Director of Graduate Studies Office, at 660-1546 for information about course offerings and registration.

- CHM 300 Basic Statistical Mechanics, 3 units, 10:45-12:00 TTh, MacPhail
 CHM 302 Basic Quantum Mechanics, 3 units, 10:20-11:10 MWF, Chesnut
 CHM 310 Electronic Structure and Spectroscopy of Transition Metal Compounds, 2 units, 11:30-12:30 MWF, Palmer
 CHM 312 Chemistry of the Main Group Elements, 2 units, 9:10-10:00 MWF, Wells
 CHM 314 Advanced Inorganic Reaction Mechanisms (permission of instructor required) 2 units, 10:20-11:10 MWF, Crumbliss
 CHM 320 Synthetic Organic Chemistry, 3 units, 9:10-10:00 MWF, Baldwin, Fraser-Reid and Polniaszek
 CHM 322 Organic Reactive Intermediates, 3 units, 11:30-12:20 MWF, Arnett and Porter
 CHM 330 Separation Science and Fundamental Electrochemistry, 2 units, 10:45-12:00 TTh, Lochmüller
 CHM 334 Electroanalytical Chemistry, 2 units, 10:20-11:10 MWF, Coury
 CHM 336 Analytical Spectroscopy, 2 units, 9:10-10:00 TTh, McGown

NCSU: Contact Dr. Russ Linderman, Director of Graduate Studies, at 515-3616 for information about course offerings and registration

TCDG Plans March Short Course

The Triangle Chromatography Discussion Group (TCDG) will sponsor a 2-day capillary GC short course taught by Dr. Walt Jennings and Dr. Dean Reed of J&W Scientific on March 2-3, 1993. The course will be taught in the Chemistry Department at NC State University. Further information will be available in January of 1993. For additional information prior to that time, interested people can contact Drake Dowler at (919) 282-5836.

Oneida Ad

OCT DEC 1992

1/4 requested

Safety News

Our section mailed over two hundred copies of SAFETY in Academic Chemistry Laboratories, 5th Edition, to high school science teachers throughout our area. Included with the book was a letter of greeting from the Section along with an offer of a free subscription to *The TarHelium* and/or membership in the ACS Division of Chemical Education. Teachers were asked to complete an application and forward it to Linda Stroud if interested in either offer. Teachers were also offered assistance with Chemical Hygiene Plan development, laboratory inspection or safety instruction. George Wahl, Safety Chair, recently gave a half day workshop on the Chemical Hygiene Plan to science teachers in Randolph County and later to the Communi-

ty College Instructors of North Carolina at their annual meeting in Charlotte. He is scheduled to talk to the Science teachers of Chapel Hill High School and also those of Robeson County in the next few weeks. If you know of any other group of science teachers who would like additional safety instruction, please have them contact George at: George H. Wahl, Jr., Chemistry-8204, NC State University, Raleigh, NC 27695-8204, phone (919) 515-2941, fax (919) 515-5079, home (919) 787-8916 or via e-mail Internet: wahl@chemdept.chem.ncsu.edu.

SafetyNet

Anyone who is connected to educational e-mail may subscribe at no charge to a nation-wide open safety line. Persons interested in safety converse openly about problems they are facing and receive answers from colleagues who have already conquered that problem.

In order to subscribe to the net, send an e-mail message to:

listserv@uvmvm.bitnet or listserv@uvmvm.uvm.edu

leave the subject line blank and type the message:

subscribe safety *your name*

then send the message.

There is an automated subscription service and you will be connected to the net as soon as the message arrives at the University of Vermont. Be ready for a steady stream of messages from all over the country on a wide variety of issues!

Thanks to Todd Woerner at Duke University for this connection.

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National Chemistry Day

The NC Section of the ACS celebrated National Chemistry Day on November 7, 1992 at NCSU. About 200 high school students from Raleigh, Chapel Hill, Durham, Fayetteville and Lumberton participated in three hours of chemical demonstrations, presentations by textile chemists, forestry chemists and nuclear chemists

goals. To make a memorial or honorary gift, please make your check payable to the American Chemical Society and send it, along with the form below, to Tribute Program, ACS Development Office, 1155 Sixteenth Street, NW, Washington DC 20036.

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Enclosed is my gift of \$ _____

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Occasion _____

Relationship to you _____

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City _____ Zip _____

Relationship to Honoree _____
.....

Innovations in Therapy of Human Viral Diseases

This symposium will be held Sunday, December 6 - Wednesday, December 9, 1992 at the Sheraton Imperial Hotel in the Research Triangle Park. The cost is \$150 for attendees and \$75 for graduate students. Registration information is p. 19.

December 6, Keynote Speakers

Dr. G. Elion, Burroughs Wellcome Co., "The War on Viruses: A Historical Perspective"
Dr. W. K. Joklik, Duke University, "The War On Viruses: Challenges, Opportunities, and Problems"

College instructors may apply to ICE for small grants to attend the workshop and initiate similar programs locally.

Chemistry Fundamentals is a four-week program that allows physical science teachers (Grades 6-9) who have limited training in chemistry to investigate in depth those topics commonly covered at the middle school level, and to explore demonstrations, laboratories, and problem-solving techniques.

Chemistry Instrumentation is a two- or three-week session in which experienced high school chemistry teachers will work with modern chemical instruments, study the theory of their operation, learn about cutting-edge research involving the equipment, and build low-cost models to take back to school.

ICE's workshops are contingent upon funding by the National Science Foundation. Workshops will be offered for college credit at Catholic University of America (Washington DC), Miami University (Oxford OH), Mount San Antonio College (Walnut CA), the University of Wisconsin-Madison, the University of Arizona-Tucson, the University of California-Berkeley and Northern Colorado University-Greeley. The programs are residential and most sessions are open to educators from throughout the US. Members of ethnic minorities and teachers of minority students are encouraged to apply. ICE will pay fees, expenses and stipends for workshop participants.

For more information and an application form (available January 1993), write to: The Institute for Chemical Education, Department of Chemistry, University of Wisconsin-Madison, 1101 University Av., Madison WI 53706-1396 or call Natasha Aristov, Outreach Specialist (608) 262-3033.

A Gift that Matters

We all know someone--a relative, friend or colleague--who has touched us in a special way and whose memory or achievements merit recognition. While creating a thoughtful tribute to a treasured relationship, you can also ensure the vitality of the American Chemical Society by making a memorial or honorary gift.

Honorary and memorial gifts help advance ACS programs which are not fully funded by dues. Gifts may be designated to a program area such as Public Outreach or Education or Congressional Fellowships. Gifts to the Project SEED, National Chemistry Olympiad, or ACS General Endowments are lasting and meaningful ways to express your feelings for a colleague or friend--whether living or deceased.

Some of the individuals who have been recognized with memorial gifts to the Society are: Frederick B. Bailey, Jr., Herbert Fineberg, Milton Harris, Jan Kopecky, Arnold Lada and Cheng Qian. We have also received gifts in honor of Robert A. Baker, Ernest L. Eliel and Mary L. Good.

The Society is pleased to list all individuals making such meaningful gifts under the name of the person honored in a Memorial/Tribute book which is displayed in the main lobby of the Society headquarters in Washington DC. All gift amounts are confidential.

Please consider joining many of your fellow ACS members in making gifts that remember someone close to you, while at the same time help us further the Society's

and a tour to the nuclear reactor. The event was organized by the High School Chemistry Committee of the ACS under the leadership of Karen Irving. Special thanks to all who helped to make this event a real success.

"old" Micron Ad

confirmed

Job Information

EPA-RTP: Job line (919) 541-3014. Updated every Friday.

RTI: In its November 2 listings of current openings at the Research Triangle institute listed the following positions: **Analytical Chemist I**, B. S./B. A. in chemistry. Will perform chemical analyses. **Three Chemist I** positions, B. S./B. A. in chemistry. Will participate in research to synthesize, purify and analyze novel organic compounds. **Chemist I/II** B. S./B. A. in chemistry with training or experience in chromatography and chemical analysis. Will assist in methods development and perform chemical analysis. **Chemist I/II** B. S. with experience or M. S. Will prepare radio labeled compounds and perform organic synthesis. **Chemist I/II** B. S./B. A. in chemistry with training or experience in organic synthesis. Will synthesize organic compounds. **Seven Postdoctoral Chemist** positions; six in or-

ganic synthesis and one in analytical. **Contact:** Office of Human Resources, Research Triangle Institute, P.O. Box 12194, Research Triangle Park NC 27709-2194. (919) 541-6466.

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Local News

NC Institute of Chemists: A panel discussion entitled "Starting your own Chemical Business" was held November 7, 1992 at Burroughs Wellcome Company. The panelists were **Dr. J. Ronald Hass**, President Triangle Laboratories spoke on "Founding and Growing Triangle Laboratories". **Paul Jones**, Esq., President

polymers. Ten sets of student handouts, *Hands-On Activities*, distributed at SPICE programs are also available (\$15.00).

"DevICEs", the *Optical Transform Kit* (with laser \$115.00; without laser \$6.00) and *Memory Metal* (\$12.00) can be used not only in a chemistry context in teaching about the solid state, but also in units on geology (crystals) or materials.

Topics in Chemistry (\$6.00 each) is a series of monographs that provides teachers and first-year college students with background information on everyday topics in chemistry. The format allows easy extraction of salient "Chem Facts" and preparation of lecture aids such as overhead transparencies. Accompanying guides to micro-scale experiments are in preparation. Topics include: *Acid Rain*, *Chlorofluorocarbons and the Hole in the Ozone Layer*, *Black and White Photography*. Upcoming *Topics* are cosmetics, paper chemistry and polymer recycling.

For more information on upcoming publications or to place an order, write to the Institute for Chemical Education, Department of Chemistry, University of Wisconsin, Madison, 1101 University Avenue, Madison WI 53706-1396.

QTI Inc.

ICE Workshops for Teachers

Teachers and supervisors from kindergarten through college are eligible to take part in programs that will be offered for the tenth summer in 1993 by the Institute for Chemical Education (ICE).

The six-day workshop *Super Science Connections* will integrate the physical sciences with objectives of a Kindergarten through Grade 3 curriculum. Hands-on science activities are tied into works of children's literature, art projects and writing skills. Interested K-3 teachers will also participate in expanding the "Super Science Connections" publication.

Chemistry Activities (two weeks) is open to those who wish to learn hands-on science activities to share with elementary and middle school teachers and students.

Huffman AD confirmed in writing

ICE Publications for Teachers

The Institute for Chemical Education (ICE) has a series of publications for primary and secondary teachers. Those now available, which are described below, as well as those not yet off the press have in common that they cover topics needed and wanted by teachers. They are also affordable.

ICE Picks: Recommended Books of Science Activities (\$5.00) is an outgrowth of ICE's summer workshops for teachers. Elementary, middle and high school teachers and college instructors participating in ICE programs reviewed 40 books and prepared recommendations, including which titles are a "must" for every school library and which to avoid.

Fun with Chemistry: A Guidebook of K-12 Activities, Volume 1 (\$19.50) has proved to be a bestseller in the past year. Activities to be included in the second volume, anticipated this winter, are currently being refined. Like its predecessor, *Volume 2* will include over fifty chemistry activities developed and extensively tested by teachers at all levels who have participated in ICE workshops.

Laboratory Assessment Builds Success (LABS) (\$17.50) is a guide to assessing student performance in the high school chemistry laboratory. It includes 18 laboratory activities together with assessment items.

The *Chem Camp Handbook* (\$25.00) is a complete guide to conducting chemistry laboratories for middle school students, based on the popular summer camps offered at ICE centers around the country. The volume includes five half-days of activities centered around the topics of elements, acids and bases, corrosion and analysis, metals and alloys, and crystal growing and polymers. Easy-to-use equipment checklists, recipes for stock solutions, templates for announcements, correspondence with parents, make this a complete handbook for conducting a Chem Camp program.

SPICE (\$12.50) is a guide to presenting and demonstrating chemistry in schools including scripts for four programs: phases of matter, acids and bases, energy and

Macronex, Inc. spoke on "Venture Capital and Legal Needs of a New Chemical Business". **Neil Moore**, Manager Business Services for the NC Biotechnology Center spoke on "The Role of NCBC and other Government Agencies in Encouraging New Chemical-Related Businesses". **Dr. Bernard F. Spielvogel**, Chief Executive of Boron Biologicals, Inc. spoke on "Experiences in Founding Boron Biologicals, Inc. and Managing its Growth".

NCSU: At its fall Honors Convocation, NCSU awarded the Alexander Quarles Holladay Medal of Excellence to four faculty members for their outstanding careers at NCSU. Two of these faculty were **Dr. Forrest C. (Buzz) Hentz**, Professor from Chemistry and **Dr. Vivian T. Stannett**, Professor Emeritus from Chemical Engineering.

Dr. Hentz has been a member of the NCSU faculty since 1964. He has published numerous articles and has co-authored a laboratory manual and a problem book for general chemistry. Hentz has devoted most of his career to helping undergraduate students in their quest to understand chemistry. He has received four NCSU Outstanding Teaching awards, an Alumni Distinguished Professorship, an Outstanding Award in Extension Service and the American Chemical Society Award in Chemical Education. He has also been an active member of the National Science Teachers Association Examination Committee.

Dr. Stannett was Camille Dreyfus Professor of Chemical Engineering from 1967 until he retired in 1988. He set into motion a polymer research program in engineering to interact with those already under way in forestry and textiles. The group he built is internationally recognized for research and is credited with many advances in the field of polymer chemistry. During his NCSU tenure, Stannett served as vice provost and dean of the Graduate School. He has been honored with numerous professional awards, including the O. Max Gardner Award and the NC Science Medal. He also served as Chair of the Local Section in 1971 and was recipient of the NC Distinguished Speaker Award given by the Local Section.

Organon Teknika: Durham based Organon Teknika Corporation (OTC), the largest of 46 subsidiaries of the Organon Teknika group of companies announced the sale of its radioimmunoassay (RIA) product line to Binax Inc., of South Portland ME. Binax, Inc. is a privately held medical diagnostics company serving both domestic and international markets. The company manufactures both RIA and EIA (enzyme-immunoassay) test kits for human, animal and environmental health, and thus, will provide uninterrupted service to current OTC customers.

Sphinx Pharmaceutical: The Durham based corporation announced that it has initiated a Phase II clinical trial with the Company's lead product, Kynac™ (safingol) Ointment, for the treatment of the signs and symptoms of psoriasis. Administered topically, Kynac is designed to inhibit the activity of a family of intracellular enzymes known collectively as protein kinase C (PKC). These enzymes have been demonstrated to mediate key cellular functions, including inflammation and cell proliferation, that are involved in psoriasis. Results of a Phase I clinical trial with Kynac, completed earlier this year, revealed that the product was well-tolerated in healthy volunteers and produced no significant skin irritation or detectable absorption into the blood stream. The Phase II clinical trial is a double-blind, controlled study

designed to evaluate the efficacy and safety of Kynac. The trial, which will be conducted at the University of California, Irvine, will study 30 patients with psoriasis who will be randomized and followed for a six-week period. The PI of the study will be Gerald D. Weinstein, MD, Professor and Chairman, Department of Dermatology at the University. "We are pleased to have been able to keep on schedule with the clinical development of Kynac. Additionally, we plan to conduct a similar Phase II trial in the US with Kynac Ointment in patients with eczema during the first quarter of 1993," said Clayton I. Duncan, President and CEO of Sphinx. "Assuming success in these trials, we expect to initiate additional, multi-site Phase II trials with expanded patient populations for both eczema and psoriasis in 1993." In September 1992, Sphinx filed an Investigational New Drug (IND) application with the US FDA for the study of Kynac in patients with eczema and psoriasis.

Nominations Sought for Research Award

Iota Sigma Pi is soliciting nominations for its Agnes Fay Morgan Research Award for excellence in research by a woman chemist not over 40 years of age. The deadline for submission is December 1, 1992. The nomination shall be for research achievement, and the specific research for which the candidate is named must be designated by the nominators. The field must be chemistry or biochemistry. The nominee need not be a member of Iota Sigma Pi. Each active chapter shall be entitled to make one nomination, but individual members or chemists or groups of chemists may make independent nominations, if properly documented. The nomination dossier must contain:

- name and address (home and business) of nominee
- a biography of the candidate, including date of birth
- a description of the research achievements
- a list of publications
- letters of recommendation from nominator and seconder

Six copies of the dossier should be sent to the Senior National Director no later than December 1, 1992. Send to:

Martha E. Thompson Ph. D.
Department of Biological Structure and Function
School of Dentistry
Oregon Health Sciences University
611 S. W. Campus Dr.
Portland OR 97201

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