



Dr. Jeffrey Zink

***Triboluminescence:
Squeezing Light Out of Crystals***

Monday, October 15, 1990

7:30 pm

Holiday Inn
Chapel Hill

Social Hour: 5:30 pm
Dinner: 6:30 pm
Lecture: 7:30 pm

I
N
S
I
D
E

- p. 5 1990 ACS Meeting Announcements
- p. 5 Notes from Chairman-Elect Chao
- p. 2 Blistering Editorial
- p. 6 Ballot for Section Election
- p. 11 Books of Interest

***** VOTING DEADLINE *****

***** NOVEMBER 26 *****

NOTES FROM THE EDITOR

Deadlines for the *TarHelium*

January 15, 1991

March 15, 1991

For whatever reason, there are "holes" in this issue. The announced deadline for this issue was October 1st. This fact was overlooked by 50% of the contributors to this issue.

It is puzzling to me why it is so difficult to get a disk with hard copy and software designation to me in time for me to make this a readable, attractive publication. Let's try harder for the January issue. Thanks...

I would also like to profile our new interest groups (NMR, etc.) and if you know of any activity, group, resource in the area that would be of interest to our readers, please contact me.

Rhône-Poulenc Ag Company

Second Annual Organic Chemistry Symposium

Organometallics in Synthesis

Monday, January 21, 1991

8:30 a.m. - 4:30 p.m.

Holiday Inn Raleigh-Durham Airport
4810 New Page Road
Research Triangle Park

Distinguished Speakers

B.M. Trost

Stanford University

L.S. Hegeudus

Colorado State University

B.H. Lipshutz

University of California at Santa Barbara

G.A. Molander

University of Colorado

T.G. Traylor

University of California at San Diego

For more information contact the organizing chairman:

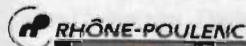
T. D. D'Silva

Rhône-Poulenc Ag Company

P.O. Box 12014, 2 T.W. Alexander Drive

Research Triangle Park, NC 27709

(919) 549-2582



ELEMENTAL ANALYSIS

HUFFMAN LABORATORIES, INC.

Quality Analytical Services Since 1936

CHONSP ■ Halogens ■ Ash ■ Metals
TOC ■ TOX ■ BTU ■ Molecular Weights
Emission Spectroscopy ■ Chromatography

Phone 303/278-4455 FAX 303/278-7012

4630 Indiana St. ■ Golden, CO 80403

MICROANALYSES

Since 1950

Analysis For All Elements, Trace Analyses,
ICP Scans, TOX, Ion Chromatography,
Molecular Weights.

GALBRAITH LABORATORIES, INC.

P.O. Box 51610
Knoxville, TN 37950-1610

(615) 546-1335

2323 Sycamore Dr.
Knoxville, TN 38921-1750

BAXTER SCIENTIFIC PRODUCTS
NEW 400 PAGE
CHROMATOGRAPHY CATALOG
IS NOW AVAILABLE

CALL OUR OFFICE AT:
800-395-8900
FOR YOUR COPY

NOTES FROM CHAIRMAN-ELECT CHAO

I am pleased to announce that Dr. Richard V. Wolfenden has been chosen as the 1990 North Carolina Distinguished Speaker Award winner. Richard received multiple nominations for this award for his important contributions to the field of enzyme catalysis. We look forward to his giving the Distinguished Speaker seminar at our December 11 meeting to be held at NCSU. Congratulations, Richard!

I am also pleased to thank all those people who helped in reinstating the ACS Project Seed program to our local section. Dan Schaubacher and the Central North Carolina Section helped to structure the program here in the Triangle region. Tasha Carmon, from Durham High School spent the summer working with Professor Bruce Faust of Duke's Department of Forestry & Environmental Studies. Cathy Smith, also from Durham High School worked with Professor John Myers at North Carolina Central University. Both students were highly praised for their work and were able to gain valuable experience in a chemical laboratory. They were rewarded with raises to their stipends supported by National and local ACS funds.

Congratulations to the newly formed Magnetic Resonance Spectroscopy (MRS) Discussion group on being accepted as a part of our North Carolina ACS section. They join the Polymer Group, the Chromatography and the Mass Spectroscopy group as our fourth topical group. Please contact C. Moreland at 737-2545 if you are interested in joining.

I will be putting together next year's committees for our local North Carolina section. I would like to solicit the help of any volunteers who might be interested in serving on these committees. Our emphasis has been recently in the area of attracting future chemists into our field and of increasing public awareness of the role of chemistry in society. Please give me a call if you would like to serve. 543-3054.

P.S. The current committees are: Advertising and Publications, Archives, Awards, Education, High School, Hospitality, Industrial Interface, Membership, Nominating, Program, Project Seed, Public Relations, Safety and Scholarship.

date ?

REMAINING 1990 MEETINGS

date ?

Dr. Roland Lehr
Mechanisms of Chemical Carcinogenesis
Duke University, Durham
Faculty Commons
Social hour - 5:30 pm
Dinner - 6:30 pm
Lecture - 7:30 pm
Paul M. Gross Laboratory

Dr. Richard Wolfenden
Transition State Stabilization
by Enzymes and the Limits of
Protein Ligand Binding Discrimination
Faculty Club, NCSU
Social hour - 5:30 pm
Dinner - 6:30 pm
Lecture - 7:30 pm

CHAIRMAN-ELECT

G. RONALD HUSK

Dr. G. Ronald Husk received his Ph.D. in chemistry from the University of Michigan at Ann Arbor in 1964 with a postdoctoral appointment at the University of Wisconsin at Madison. Before joining the Army Research Office in 1971, he was an Assistant Professor at Villanova University for 5 years. He has worked in collaboration with Duke, UNC and in 1984, he received a Secretary of the Army Fellowship to carry out research jointly at the Chemical Engineering Department of the University of Texas-Austin and the Chemistry Department at S.W. State Texas University-San Marcos.

In his present position, he is responsible for coordinating and managing research programs in Chemical Synthesis and Polymer Chemistry at US ARO and army-wide programs relevant to current Army problem areas.

Dr. Husk is a member of the ACS, AIC and NCIC, the AAAS and the Society of Sigma Xi. His name is listed professionally in American Men and Women of Science and in Who's Who in America and in the South and Southwest.

CHARLES G. MORELAND

Charles Moreland is a Professor of Chemistry at North Carolina State University. He received his B.S. and Ph.D. in Chemistry from the University of Florida. He joined the faculty at NCSU in 1964 and served as Assistant Department Head for Graduate Studies from 1981-1990. Presently, he is the Director of the NCSU/NMR to a wide variety of chemical structural problems.

He has been a member of the ACS for over thirty years and has served on a number of committees for the NC Section during his twenty-six years at NCSU. In 1984, he served as Program Chairman for the 36th SE Regional ACS Meeting in Raleigh and recently served as Chair of the Campaign for Chemistry Committee for the local section. He is also leading an effort to establish a magnetic resonance spectroscopy discussion group which will be a study group under the NC Section.

He has served on the Board of Directors of the NC Biotechnology Center since 1986. In 1988, he was a recipient of an alumni teaching award and is a member of the Academy of Outstanding Teachers at NCSU.

JOAN BURSEY

G. RONALD HURK

Dr. G. Ronald Hurk received the Ph.D. in chemistry from the University of Michigan in Ann Arbor in 1956 with a postdoctoral appointment at that university. He joined the Army Research Office in the Department of Chemistry at the University of Wisconsin in Madison, before joining the Army Research Office in the Department of Chemistry at the University of Illinois in Urbana. He has worked in various capacities for the Army Research Office since 1964. He received a Secretary's Award for his collaboration with the UIC and in 1984, he received a Secretary's Award for his leadership in the development of the Chemistry Department at the University of Illinois. He is currently a member of the Chemistry Department at the University of Illinois.

In his present position, he is responsible for coordinating the chemistry and materials research program in Chemical Synthesis and Polymer Chemistry at the UIC and works with programs relevant to various Army projects.

Dr. Hurk is a member of the ACS, AIC and NCI, the AAAS and the Society of Women Chemists. His work is listed periodically in American Men and Women of Science and in Who's Who in America and in the South and Southwest.

JOHN MYERS

CHARLES G. MORELAND

Charles Moreland is a Professor of Chemistry at North Carolina State University. He received his B.S. and Ph.D. in Chemistry from the University of Florida. He joined the faculty at NCSU in 1964 and served as Assistant Department Head for Graduate Studies from 1971-1976. Presently he is the Director of the NCSU Center for a Wide Variety of Chemical Structural Problems.

He has been a member of the ACS for over thirty years and has served on a number of committees for the NC Section during the twenty-six years he has been in Raleigh. He served as Program Chairman for the 1983 Regional ACS Meeting in Raleigh and recently served as Chair of the Chemistry Committee for the 1984 Fall meeting. He is also leading an effort to establish a magnetic resonance spectroscopy department which will be a truly group within the NC Section.

He has served on the Board of Directors of the NC Biotechnology Center since 1981. In 1984, he was a recipient of an elected lifetime award and is a member of the Academy of Distinguished Teachers at NCSU.

COUNCILOR

MAURICE M. BURSEY

Maurie M. Bursey is Professor of Chemistry at UNC-Chapel Hill and has been a member of the North Carolina Section for 24 years. He is the incumbent Councilor, and received the Section's Marcus E. Hobbs Service Award in 1988 for his work as Councilor. At the recent ACS National Meeting in Washington, he was re-elected by the Council to its Committee on Committees, and at the following committee meeting, was elected Chairman of the Committee. The Committee's purpose is to review the committee structure of governance and to recommend the formation, consolidation and abolition of committees; it also advises the president-elect of the Society on more than 400 appointments to committees and on the chairmanships.

In the local section, he is chair of the Archives Committee and a member of the Education Committee, which arranges for the teaching of section-sponsored short courses. He has taught several courses in mass spectrometry for the section and was the mover behind the establishment of the section's now very active High School Committee. He also is the continuing constitutional expert for the Regulations of the Steering Committee of the Southeastern Regional Meeting.

His research specialty is mass spectrometry, in which he has published some 240 articles. In the past ten years, he also has written two books on the history of chemistry at the University of North Carolina.

F. IVY CARROLL

Dr. F. Ivy Carroll received his B.S. degree in chemistry from Auburn University in 1957 and his Ph.D. from UNC-Chapel Hill in 1961. He joined Research Triangle Institute in 1964 and has been Director of the Organic and Medicinal Chemistry Division of the Chemistry and Life Sciences Unit since 1975. Dr. Carroll's current research interests are the design and synthesis of analgesics, antiradiation agents, antiparasitic agents, anticancer agents, cholinergics, anticholinergics, competitive inhibitors of cholinesterase, antiacne agents and compounds for use in the prevention of certain types of cancer (retinoids and protein kinase C inhibitors).

Dr. Carroll served one term as Councilor and is presently Alternate Councilor for the section. In addition, he served two terms on the ACS Offices and Awards Committee (Chairman for the last term) and the Long Range Planning Committee of the Medicinal Chemistry Division of the ACS.

ALTERNATE COUNCILOR

LAWRENCE BOWEN

PETER SMITH

Peter Smith (B.A., M.A., Ph.D., Cambridge University) first came to the U.S. as a Fulbright postdoctoral fellow at Harvard. In 1959, he joined Duke's Chemistry Department, where he is now a Professor. As a physical chemist, his research interests include kinetic and structural studies of chemical and biological systems using EPR spectroscopy. He was the NC Section Chairman in 1972, during which time the NC Section Executive Committee started to consider hosting a Southeastern Regional Meeting (SRM). Since its formation in January, 1978 until 1980, he chaired the SRM Planning Committee which gained for our section in 1979 at the Roanoke SRM an invitation to host the 1984 SRM in Raleigh. In the past, he has served the section as Alternate Councilor (1983-85) and as member or chairman of several committees (eg. Education, Membership, National Chemistry Week, Nominations and Program as well as the Executive 1985, he has been the Chairman of the Public Relations Committee.

BOOKS OF INTEREST

FREE SAFETY BOOK

The long awaited fifth edition of the ACS "best seller" SAFETY IN ACADEMIC CHEMISTRY LABORATORIES is now available. Single copies are FREE!!!! Call 1-800-227-5558 (Press 2 when the automatic answerer responds). In quantity, the books are available for \$3.00 a copy, or less in large quantities.

The same 800 number also provides a valuable Safety Referral Service. Call it and press 6 at the automatic answerer. You will be connected to Maureen Matkovich. She should be able to answer any safety related questions or refer you to the person who knows the answer. Give it a try!

The American Chemical Society has announced the publication of the second edition of INFORMING WORKERS OF CHEMICAL HAZARDS, which reviews regulations and compliance methods under the Hazard Communication Standard of the US Occupational Health and Safety Administration. A discussion of the OSHA laboratory standard is also provided. The publication is a project of the Society's Committee on Environmental Improvement, Task Force on Occupational Health and Safety.

The first copy is free and then \$2.00 thereafter. For a single copy, send a self-addressed mailing label (?) to: American Chemical Society, 1155 16 Street N.W., Washington, DC 20036 or call (202) 872-8725. Requests for multiple copies should include the booklet name and be addressed to: American Chemical Society, Box 57136, West End Station, Washington, DC 20037.

The TarHelium is a publication of the North Carolina Section of the American Chemical Society. The views expressed herein are not necessarily those of the Section.

Next deadline for the *TarHelium* will be January 15, 1991.

B.A. Whittaker, Ph.D., *Editor*
Linda M. Stroud, Ph.D., *Advertising Manager*
W. Switzer, Ph.D., *Mtg. Announcement Editor*

Please direct all correspondence and submissions to the attention of the editor:

B.A. Whittaker, Ph.D.
3108 Anderson Drive
Raleigh, NC 27609

Executive Committee:

Alvin Crumbliss, Duke, Past Chairman (89)
Donald Preiss, NCSU, Chairman
Dr. James Chao, Chairman-Elect
Dr. Hanna Green, Secretary
Joan Bursey, Radian, Treasurer
B.A. Whittaker, BD, Editor
Dr. William Switzer, Mts. Announcement Ed.
Dr. Maurice Bursey, Councilor
Dr. Bill Little, Alt. Councilor

If you wish to change your membership status or your *TarHelium* mailing address, please submit your new address along with your old address in the form of a recent C&EN or *TarHelium* address label to:

Manager, Membership & Subscription Services
American Chemical Society
P.O. Box 3337
Columbus, Ohio 43210

PRE-SORTED
FIRST CLASS MAIL
U.S. POSTAGE PAID
RALEIGH, NC

PERMIT NO. 491

0137835L 04/90 ZT 426 1
DR ROBERT GEORGE GHIRARDELLI
US ARMY RES OFFICE
POB 12211
RES TRIANGLE PARK NC
27709-2211

FIRST CLASS MAIL