

Tar Helium



North Carolina Section
AMERICAN CHEMICAL SOCIETY

Vol. 5, No. 3 Raleigh, N. C. November, 1974

*** ELECTIONS! MAIL BALLOT ENCLOSED! ***

TWI-NIGHT DOUBLEHEADER!

Date: Wednesday, November 13, 1973

Place: Chapel Hill, North Carolina

Schedule: 4:00 p.m. Lecture, UNC-CH, Room 207 Venable

"TUNABLE ORGANIC DYE LASERS"
Richard A. Keller
National Bureau of Standards

5:30 p.m. Happy Hour
POETS Corner
University Square, Chapel Hill

6:15 p.m. Dinner, POETS Corner
(Boneless breast of chicken,
\$4.25 plus beverage, tax and tip)

8:00 p.m. Lecture, UNC-CH, Room 207 Venable

"THE SURFACE SCIENCE OF CATALYSIS.
THE STRUCTURE AND REACTIVITY OF
PLATINUM CRYSTAL SURFACES."
G. A. Somorjai
University of California,
Berkeley

Dr. Richard A. Keller received his B.S. from Allegheny College in 1956 and Ph.D. from the University of California, Berkeley, in 1961. From 1959 to 1963 he was assistant professor of chemistry at the University of Oregon, Eugene.

In 1963 he joined the Photochemistry section of the physical chemistry section of the National Bureau of Standards. Dr. Keller's recent research has been on tunable organic dye lasers in the visible region of the spectrum. Other interests are spectroscopy of large molecules and quantum yields of light emitted by these molecules.

"Tunable Organic Dyes Lasers"

by Richard A. Keller

The recent development of tunable organic dye lasers has made possible advances in many areas of chemistry. The basic principles of these lasers and their applications to analytical chemistry, spectroscopy, and photochemistry will be discussed. Items of particular emphasis will include high resolution saturation spectroscopy, enhanced detection of trace absorptions, microfluorescence, and tailored photochemical synthesis, including isotope separations.

Dr. G. A. Somorjai obtained his Ch.E. from Budapest Tech in 1956 and Ph.D. in chemistry from University of California, Berkeley, in 1960. From 1960 to 1964 he was a researcher at IBM and in 1964 returned to Berkeley as professor of chemistry. His research includes structure of surfaces and adsorbed molecules; catalytic reactions on crystal surfaces; low energy electron diffraction; surface composition and valency by Auger electron spectroscopy; and molecular beam scattering studies of energy transfer at surfaces.

Unfortunately, there was no abstract available at press time.

IT'S ELECTION TIME!

November is election time and our local ACS section has three offices to fill. The nominating committee, chaired by Sally Horner (Meredith) and also consisting of Richards Wills (Duke), Kathy MacLeod (EPA), Charles Moreland (NCSU), Colin Pitt (RTI) and Thomas Meyer (UNC-CH), has selected two candidates for each of the three vacancies -- those of Chairman-Elect, Councilor and Alternate Councilor. Voting will be by mail. (See page 5 for ballot and instructions.)

The principal responsibility of the Chairman-Elect is to serve as head of the Program Committee. He or she then becomes Chairman the following year. A Councilor represents the Section at Council meetings of the ACS held during national meetings and reports back to the Section on the proceedings and decisions of the Council. An Alternate Councilor assumes these duties in the absence of a Councilor.

PALMER, NEES FOR CHAIRMAN-ELECT

Richard Palmer obtained his Ph.D. in inorganic chemistry from Illinois in 1965 and has been at Duke since 1966. He has just returned from a year's sabbatical at the University of Texas. His research encompasses structural and spectroscopic studies of inorganic compounds, including solid state electronic spectroscopy and optical activity; iron-specific ligands; and metal complexes of crown ethers. [Editor's Note: Election Day is also his birthday!]

Monica Nees got her Ph.D. in organic chemistry from Maryland in 1965. Her research has been in sulfur-nitrogen heterocycles and scientific information retrieval. In 1972 she came to the Triangle to head the chemical and biomedical literature search program at the North Carolina Science and Technology Research Center. She is also the editor of TARHELIUM. [Editorial license and "campaign statement": "If elected, I shall gladly divest myself of TARHELIUM, in order to avoid even the appearance of conflict of interest"]

GHIRARDELLI, ELIEL FOR COUNCILOR

Bob Ghirardelli, an organic Ph.D. from Cal Tech in 1956, has been with the Army Research Office since 1960 and is presently the associate director of the chemistry division. His research interests are stereochemistry, small ring compounds and reaction mechanisms. Bob was chairman of our Section in 1970.

Ernest Eliel came to UNC-CH in 1972, after getting his Ph.D. in organic chemistry from Illinois and serving 24 years at Notre Dame. His principal research interests are in stereochemistry, conformational analysis and organosulfur chemistry. A member of the National Academy of Sciences, he is very active in ACS affairs and is chairman of the Division of Organic Chemistry.

THOMPSON, LONG FOR ALTERNATE COUNCILOR

Dick Thompson received his Ph.D. in inorganic chemistry from Texas in 1959. His research interests are in trace analysis of atmospheric pollutants, and he is presently Chief of the Analytical Laboratory Branch of EPA. He has been with EPA (or its predecessors) since 1968 and moved to the Triangle in 1971. Dick is retiring as Chairman of our local Section.

Gil Long received his Ph.D. in inorganic chemistry from Florida in 1957 and has been at NCSU since 1958. His research has been on structure and bonding of Group V organometalloids, spectroscopy, and redistribution reactions. Although his present term as Alternate Councilor is expiring, he has been persuaded to run again.

DEC. 11 - NEXT LOCAL ACS MEETING

Monroe Wall of RTI will speak at Duke on "Chemistry and Metabolism of Marijuana Constituents".

BALLOT

Vote for one candidate for each office. Space is provided for write-in candidates.

FOR CHAIRMAN-ELECT

Richard A. Palmer

Monica R. Nees

FOR COUNCILOR

Robert G. Ghirardelli

Ernest L. Eliel

FOR ALTERNATE COUNCILOR

Richard J. Thompson

G. Gilbert Long

In order for your ballot to be counted, it must reach Maurice Bursey by no later than meeting time, November 13, 1974. Mail to:

Dr. Maurice Bursey
Department of Chemistry
University of North Carolina
Chapel Hill, N. C. 27514

However, we also realize the deficiencies of the Postal Service (especially Chapel Hill's), so you can also deliver it to Maurice at the meeting or send it by messenger.

EXECUTIVE COMMITTEE

Richard J. Thompson (EPA), Chairman
Maurice Bursey (UNC), Ch.-Elect
Suzanne T. Purrington (Peace), Sec.-Treas.
Charles N. Reilly (UNC), Councilor
Marcus Hobbs (Duke), Councilor
W. P. Utermohlen (State of N. C.), Councilor
Keith Lawson (Monsanto) Alt. Councilor
Richard Gilbert (NCSU), Alt. Councilor
Gilbert Long (NCSU), Alt. Councilor
Halbert Carmichael (NCSU), Past Chairman
Peter Smith (Duke), Past Chairman
Vivian Stannett (NCSU), Past Chairman

COMMITTEE CHAIRMEN

Awards - Colin Pitt (RTI)
Education - James Bonk (Duke)
Hospitality - Charles C. Moreland (NCSU)
Membership - Joan Bursey (RTI)
Program - Maurice Bursey (UNC-CH)
Publications - Halbert H. Carmichael (NCSU)
Safety - Kenneth T. Knapp (EPA)

TARHELIUM is published by the North Carolina Section of the American Chemical Society. The views expressed herein are not necessarily those of the Section. Direct all correspondence to Dr. Monica Nees, Editor, c/o N. C. Science and Technology Research Center, P. O. Box 12235, Research Triangle Park, N. C. 27709

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