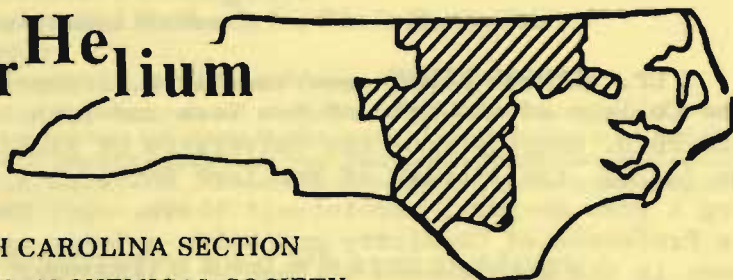


Tar Helium



NORTH CAROLINA SECTION
AMERICAN CHEMICAL SOCIETY

Vol. 10, No. 5 Raleigh, N.C. January, 1980

"CRYSTALLIZATION PRESSURE AND DECAY OF MONUMENTS"

Speaker: Dr. Seymour Lewin
 New York University
 New York, N. Y.

Date: January 15, 1980

Place: North Carolina Central University
 Durham, North Carolina

Time: 5:30 Happy Hour
 Four Flames Restaurant
 Downtown Motor Inn
 (Directions Inside)

 6:30 Dinner*
 Four Flames Restaurant
 Downtown Motor Inn

 8:00 Lecture
 112 Hubbard Chemistry Building
 North Carolina Central University

* Please make reservations by Friday, January 11, 1980. Call Sherry Handfinger at 966-2296 in Chapel Hill, Terry Laing at 684-2414 in Durham or Linda Archer at 737-2548 in Raleigh.

Dr. SEYMOUR LEWIN received his B.S. degree from the College of the City of New York and both his M.S. and Ph.D. degrees from the University of Michigan. He joined the faculty of New York University following a post doctoral appointment there. Dr. Lewin is Professor of Chemistry and holds a joint appointment in the departments of Chemistry and Fine Arts.

* * *

Historic and artistic works in stone are subjected to a variety of effects that result in the disfigurement and/or decay of the object. Several types of stone decay, as exemplified in famous monuments around the world, will be illustrated. Successful treatment techniques, based on an understanding of decay mechanisms, will be described and their practical application to historic monuments shown.

DIRECTIONS TO DOWNTOWNER MOTOR INN

The Downtowner Motor Inn is located at 309 West Chapel Hill Street near downtown Durham. Exit the East-West Expressway at Duke Street and turn right onto Chapel Hill Street.

MAIL SURVEY

Thanks to those who responded to the November mail survey on the arrival date of the TarHelium. Only one troublespot was located and the Post Office is attempting to locate that problem. When delivery is late, I would appreciate your notifying me, the Editor.

Chemical Mutagens **Principles and Methods for Their Detection** **Volume 6**

edited by **Frederick J. de Serres**, and **Alexander Hollaender**

A wide range of problem areas has emerged in the rapidly developing fields of environmental mutagenesis and genetic toxicity. In this volume, authorities in the field discuss such topics as chemical mutagens and sister chromatid exchange, commercial screening of environmental chemicals, and mathematical analysis of mutation induction kinetics. approx. 500 pp., illus., 1980, \$49.50

Biochemistry and Pharmacology of Ethanol

edited by **Edward Majchrowicz**, and **Ernest P. Noble**

in two volumes

"This is the best reference book on the subject . . . I find it most useful to have the different aspects of the biochemistry and pharmacology of ethanol covered by one work. The editors have succeeded in enlisting the collaboration of some of the leading experts."

—**H. A. Krebs**, *Metabolic Research Laboratory, Nuffield Department of
Clinical Medicine, Oxford, England*

Volume 1: 734 pp., illus., 1979, \$47.50

Volume 2: 600 pp., illus., 1979, \$42.50

Introduction to Analytical Electron Microscopy

edited by **John J. Hren**, **Joseph I. Goldstein**, and **David C. Joy**

This volume offers a tutorial guide for the practicing electron microscopist wishing to learn newly available methods of analysis. The approach is practical, with heavy reliance on examples. 618 pp., 1979, \$35.00

Chemical Kinetics and Transport

by **Peter C. Jordan**

This new text, designed for use in advanced undergraduate and graduate level courses, examines equilibrium kinetic theory, transport in both gas and solution, phenomenology, mechanisms of thermal and photochemical reaction, single-collision chemistry, and calculation of thermal rate constants. Numerous examples are included to illustrate general principles. 384 pp., illus., 1979, \$21.50

Alkaline Phosphatase

by **Robert B. McComb**, **George N. Bowers, Jr.**, and **Solomon Posen**

This book brings together some of the vast amount of information that has accumulated over the last seventy years about the group of hydrolytic enzymes generally referred to as alkaline phosphatases. It is an excellent reference tool for clinical chemists, physicians, veterinarians, biochemists, biologists and workers in adjacent areas. 916 pp., illus., 1979, \$75.00



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ELECTION RESULTS

Results of the 1980 elections are:

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CHAIRMAN-ELECT:

69 WILLIAM GUTKNECHT

68 Kathryn MacLeod

SECRETARY:

79 SLAYTON EVANS

59 Richard Neeley

TREASURER:

123 ROBERT IZYDORE

ALTERNATE COUNCILOR:

61 Robert Ghirardelli

78 MONICA NEES

COUNCILOR:

90 MARCUS HOBBS

40 Charles Moreland

MICROANALYSES

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Trace analyses and molecular weights

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AREA SEMINARS

- Jan 7 Dr. ROALD HOFFMAN, Cornell University, "Theoretical Organometallic
25 Chemistry," (a lecture series), Venable Hall, UNC-CH
- 17 Dr. ROALD HOFFMAN, Cornell University, "Bonding Capabilities of
Transition Metal Carbonyl Fragments," 3:30 pm, Room 124 Dabney, NCSU.
- 18 Dr. M. D. WINSTEAD, Bucknell University, "Scintigraphic Bio-distributional
Studies ^{14}C -labeled Compounds," 3:30 pm, Room 103 Gross Chemical Lab,
Duke.
- 25 Dr. R. RILL, Florida State University, "Approaches to the Molecular
Structure and Function of Chromatin," 3:30 pm, Room 103 Gross Chemical
Lab, Duke.
- 31 Dr. PATRICK THADDEUS, Goddard Institute for Space Studies, "Carbon
Chains and Other Large Molecules in Interstellar Gas," 11:00 am, Room
308 Venable Hall, UNC-CH.
- Feb 1 Dr. S. JACKELS, Wake Forest University, "Topic to be announced",
3:30 pm, Room 103 Gross Chemical Lab, Duke.
- 7 Dr. ROBERT T. McIVER, JR., University of California, Irvine, "Acidities
and Reduction Potentials in the Absence of Solvation," 11:00 am,
Room 308 Venable Hall, UNC-CH.

Two ACS Congressional Fellowships Available To Begin Fall 1980

The objectives of the fellowship program are:

- To provide an opportunity for scientists to gain firsthand knowledge of the operations of the legislative branch of the federal government,
- To make available to the government an increasing amount of scientific and technical expertise, and
- To broaden the perspective of both the scientific and governmental communities regarding the value of such scientific-governmental interaction.

For further information call
(202) 872-4383.

Applications should be submitted by February 29, 1980 to:

Dr. Annette T. Rosenblum
Department of Public Affairs
American Chemical Society
1155—16th St., N.W.
Washington, D.C. 20036

Applications consist of a letter of intent, resume, and two letters of reference. The letter of intent should include a description of the applicant's experience in public-oriented projects in which scientific or technical knowledge was used as a basis for interaction and a statement that tells why they have applied for the Fellowship and what they hope to accomplish as an ACS Congressional Fellow. The resume should describe the candidate's education and professional experience and include other pertinent personal information. Letters of reference should be solicited from people who can discuss not only the candidate's competence but also the applicant's experience in public-oriented projects. Arrangements should be made to send the letters of reference directly to ACS.

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