

Tar^{He}lium



NORTH CAROLINA SECTION
AMERICAN CHEMICAL SOCIETY

Vol. 8, No. 1

Raleigh, N. C.

September, 1977

"THE CHEMICAL INDUSTRY INSTITUTE OF TOXICOLOGY"

Speaker: Dr. Leon Golberg, President
Chemical Industry Institute of Toxicology

Date: Tuesday, September 20, 1977

Place: University of North Carolina
Chapel Hill, North Carolina

Time: 5:30 Happy Hour
Ranch House
Airport Road, Chapel Hill

6:30 *Dinner
Ranch House (\$6.50 including tip
Student members half price)

8:00 Lecture
UNC-CH, 308 Venable Hall

*Please make reservations by Friday, September 16, 1977. In Chapel Hill call Joe Templeton 966-1566; in Durham call Bill Gutknecht 684-2414; and in Raleigh call Bill Switzer 737-2545.

Dr. Leon Golberg is President of the Chemical Industry Institute of Toxicology (CIIT), a research organization established in April, 1975, to advance toxicological methodologies and to train toxicologists. CIIT, which is supported by 27 chemical companies, has temporary facilities in Raleigh until completion of permanent headquarters in the Research Triangle Park. Dr. Golberg came to CIIT in February, 1976 from Albany Medical College, where he was Research Professor of Pathology and Scientific Director of the Institute of Comparative and Human Toxicology. For six years prior to joining Albany Medical College (in 1967), he was Director of the British Industrial Biological Research Association. He also has served as Medical Research Director of Benger Laboratories, Ltd. (now Fisons Pharmaceuticals, Ltd.).

Dr. Golberg received his Ph.D. in organic chemistry from the University of Oxford, his D.Sc. degree in biochemistry from South Africa's Witwatersrand University, and his M.D. from the University of Cambridge. He is a Fellow of the Royal Society of Medicine, the Royal Institute of Chemistry and the Royal College of Pathologists. He is President-Elect of the Society of Toxicology.

DEADLINES FOR THE TAR HELIUM

For those wishing to place announcements in the Tar Helium, the deadline for receipt of copy is normally four (4) weeks prior to the next meeting. These deadlines are September 20, October 18, November 8, December 13, January 17, February 21, and March 21. The one exception is the deadline for the January issue, which is five (5) weeks prior to the meeting.

Please send copy to William L. Switzer. The address appears on the address page of each TarHelium. He may also be reached by phone at 737-2545 in Raleigh.

REPORT FROM THE NOMINATING COMMITTEE
ELECTION OF OFFICERS

At the September meeting of the Section, the Nominating Committee will report their nominations for the various offices to be filled this year. These offices include Chair-Elect, Treasurer (2-year term), Councilor (3-year term) and Alternate Councilor (3-year term). Additional nominations will be accepted from the floor at the September meeting or by letter to the Nominating Committee. Those making such nominations should: 1) make sure that their nominee is willing to serve and 2) provide to the Nominating Committee with a biography of the nominee for inclusion in the mailing of the ballot. Nominations and biographies should be mailed to Dr. Howard G. Clark, Department of Biomedical Engineering, Duke University, Durham, N. C. 27706. These should be received by September 20, 1977.

This year's nominees are:

Chair-Elect	Eric Wiechert
Treasurer	Forrest Getzen Derek Hodgson
Councilor	Ernest Eliel
Alternate Councilor	Richard J. Thompson Halbert Carmichael

SHORT COURSE ANNOUNCEMENT

The Section is again offering a non-credit short course this fall. The details are given on pages 4 and 5. Please note that the fee should accompany the registration information. Registration deadline is Monday, October 3, 1977. If ACS members are suggesting that non-members attend, please point out that they may save \$10 by joining the ACS. Have them contact the treasurer (address given on the registration form) about membership.

SELECTED TOPICS IN NATURAL PRODUCT CHEMISTRY:

Prostaglandins, Steroids, Alkaloids, and Synthesis of Chiral Natural Products

DATES: Mondays and Wednesday , October 10 through November 2, 1977.

TIME: 5:15 to 6:15 p.m.

PLACE: Burroughs Wellcome Auditorium

REGISTRATION

DEADLINE: October 3, 1977

TEXT: None. Handouts will be provided.

COURSE

DESCRIPTION: The course will consist of two lectures on each of four topics. Each topic will be covered by a different lecturer. PROSTAGLANDINS (October 10, 12, Dr. Ned Porter): The biosynthesis and chemical synthesis of prostaglandins (PGs), thromboxanes and prostacycline will be discussed. Cyclic peroxides and lipid hydroperoxides as PG biosynthetic intermediates and as inhibitors of PG biosynthesis will receive particular attention. STEROIDS (October 17, 19, Dr. Ed Cooke): The general background and biosynthesis of steroids will be introduced and the synthesis and modification of steroids as well as their interactions with macromolecules such as receptors and antibodies will be emphasized. Changes in structure versus the biological effect will be discussed. ALKALOIDS (October 24, 26, Dr. Peter Jeffs): The chemistry of alkaloids will be discussed with primary emphasis on examples which illustrate the elucidation of structure, synthesis and biosynthesis of important alkaloids. CHIRAL NATURAL PRODUCTS (October 31, November 2, Dr. James Coke): The total synthesis of chiral natural products will be discussed with emphasis on methods which give good optical purity, are of preparative scale and have general synthetic potential. Recent methods will be surveyed with application to as many classes of natural products as time permits. The biological contrast between enantiomers will be illustrated with examples.

INSTRUCTORS:

DR. NED PORTER (Ph.D. 1969, Harvard University); Associate Professor of Chemistry at Duke University; Area of Interest: Free radicals and free radicals in biology. DR. ED COOKE (Ph.D. 1961, University of North Carolina); Director for Life Science and Bio-Organic Chemistry at Research Triangle Institute (came to RTI in 1962); Area of Interest: Synthetic chemical applications to biological problems. DR. PETER JEFFS (Ph.D. 1961, University of Natal); Professor of Chemistry at Duke University (came to Duke in 1964); Area of Interest: Natural Products in the areas of alkaloids and marine chemistry. DR. JAMES COKE (Ph.D. 1960, Wayne State University); Professor of Chemistry at University of North Carolina (came to UNC in 1961); Area of Interest: Mechanistic and natural product chemistry.

Enclosed is a check payable to the North Carolina Section of the American Chemical Society as registration fee for SELECTED TOPICS IN NATURAL PRODUCT CHEMISTRY. A check must accompany the registration. Billing cannot be arranged. Non-members may contact the treasurer about joining the Society and receiving the members discount.

_____ \$30 - ACS Member;

_____ \$40 - not ACS member

NAME: _____ HIGHEST DEGREE: _____

BUSINESS ADDRESS _____

_____ PHONE _____

SEND TO: Dr. Forrest W. Getzen
Treasurer, North Carolina Section ACS
c/o Department of Chemistry
North Carolina State University
Raleigh, North Carolina 27607

IOTA SIGMA PI ANNOUNCES AWARD

Iota Sigma Pi, National Honor Society for Women in Chemistry, is soliciting nominations for The Iota Sigma Pi National Undergraduate Award for Excellence in Chemistry. Senior women chemistry students from accredited colleges and universities are eligible. For details write to Dr. Anne Sherren, Department of Chemistry, North Central College, Naperville, Illinois 60540. The deadline for nominations for the 1978 Award is February 1, 1978.

Iota Sigma Pi membership is open to women chemistry students, and professional women who meet the membership qualifications. For details write to Dr. Anne Sherren.

The 1977 Iota Sigma Pi National Award for Excellence in Chemistry was presented to Michele Moisio Thomas who was nominated by Kenyon College of Gambier, Ohio.

Ms. Michele Moisio Thomas is now pursuing graduate studies in chemical engineering at the University of Illinois at Urbana.

Violet M. Diller, Ph.D.
National President
IOTA SIGMA PI

PROPOSED NAME CHANGE FOR TARHELIUM

The editor is considering changing the name of this publication to WOLFRAM PACKIUM. The new name is highly appropriate, since this publication is the tung(sten) of the Section and is always packed with information. Comments received by mail will be appreciated.

FUTURE LOCAL SECTION MEETINGS

The meeting dates, speakers and locations for the 1977/78 season of the North Carolina Section of the ACS are given below:

<u>Date</u>	<u>Speaker</u>	<u>Location</u>
Oct. 18	Prof. Barnett Rosenberg	Duke
Nov. 15	Prof. Susan S. Schiffman	NCCU
Dec. 6	Dr. Arthur A. Patchett	Meredith
Jan. 17	Dr. Frederick Gamble	NCSU
Feb. 14	Morehead Planetarium	UNC
March 21	Prof. Murray Goodman	Burroughs- Wellcome
April 18	Prof. Alan G. McDiarmid (Meeting-in-Miniature)	Duke

AREA SEMINARS

- UNC, 11:00 am, Room 308 Venable Hall
- Sept. 7 L.M. Stephenson, Case-Western Reserve University
 - Sept. 14 G.L. Geoffroy, Pennsylvania State University
 - Sept. 21 Edel Wasserman, Allied Chemical
 - Sept. 28 Roger Kornberg, Harvard University
 - Oct. 5 J.H. Sinfelt, EXXON Research and Engineering Company
 - Oct. 12 Y. Pocker, University of Washington
- Duke, 3:30 pm, Room 103 Gross Chemical Laboratory
- Sept. 16 R.F. Colman, University of Delaware
 - Oct. 7 R.G. Salomon, Case-Western Reserve University
- NCSU, 4:00 pm, Room 124, Dabney Hall
- Sept. 12 P.R. Griffiths, Ohio University
 - Sept. 19 W.M. Egan, National Institutes of Health
 - Sept. 26 P. Gütlich, Johannes Gutenberg-Universität
 - Oct. 3 W.S. Brey, University of Florida

EXECUTIVE COMMITTEE

Suzanne Purrington (NCSU), Chairman
Richard Palmer (Duke), Chairman-Elect
Kathy MacLeod (EPA), Secretary
Forrest Getzen (NCSU), Treasurer
Marcus Hobbs (Duke), Councilor
Maurice Bursey (UNC), Councilor
Ernest Elie (UNC), Councilor
Robert Ghirardelli (ARO), Alternate Councilor
Sally M. Horner (Meredith), Alternate Councilor
Richard J. Thompson (EPA), Alternate Councilor
and Past Chairman
Monica Nees (NCSTRC), Past Chair
Maurice Bursey (UNC), Past Chairman

COMMITTEE CHAIRMEN

Awards - Derek Hodgson (UNC)
Certification - Richard J. Thompson (EPA)
Education - James L. Coke (UNC)
Hospitality - William Gutnecht (Duke)
Membership - Lawrence Bowen (NCSU)
Nominating - Howard Clark (Duke)
Program - Richard Palmer (Duke)
Publication - Halbert Carmichael (NCSU)
Public Relations - Marcus Hobbs (Duke)
Safety - Edward Tyczkowski (Armageddon)
Scholarship - David Yeowell (BW)

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