AOCS SHORT COURSE ON GLYCOLIPIDS

June 6-8, 1975 – Aspen, Colorado

GENERAL CHAIRMAN: LLOYD A. WITTING,
2514 EMERSON
DENTON, TEXAS 76201

June 6
SESSION I: Chairman, John R. Wherrett

Nomenclature of Glycosphingolipids
Robert M. Burton, associate professor, Department of Pharmacology, Washington University School of Medicine, St. Louis, Mo.

Extraction and Analysis of Materials Containing Sialic Acid
Eric G. Brunngraber, administrative research scientist, Illinois Department of Mental Health, Chicago, Ill.

Nervous System Gangliosides
Robert Ledeen, associate professor of biochemistry, Neurology Department, Albert Einstein College of Medicine, Bronx, N.Y.

Gangliosides of Nonnervous Tissue
John R. Wherrett, associate professor, Department of Medicine (Neurology) University of Toronto, Toronto, Canada

SESSION II: Chairman, Lloyd A. Witting

Studies on the Distribution of Gangliosides in Tissues by Immunological Techniques
Donald M. Marcus, associate professor, Department of Medicine, Albert Einstein College of Medicine, Bronx, N.Y.

Glycolipids Turnover in Tissue Culture
Michel Philippart, associate professor, Neuropsychiatric Institute, University of California, Los Angeles, Calif.

Synthetic Inhibitors of Glycosphingolipid Metabolism
Norman S. Radin, research biochemist, Mental Health Research Institute, University of Michigan, Ann Arbor, Mich.

Enzyme Replacement Therapy for Gaucher's Disease: A New Dimension in Sphingolipidoes Research
Peter G. Pentchev and Roscoe O. Brady, Developmental and Metabolic Neurology, NINDS, National Institutes of Health, Bethesda, Md.

June 7
SESSION III: Chairman, Alan D. Elbein

The Metabolism and Function of Phosphoglycosyl Diglycerides
Ronald Pieringer, associate professor, Department of Biochemistry, Temple University School of Medicine, Philadelphia, Pa.

Sulfatides: Major Glycolipids of Chordate Testis and Spermatozoa
R.K. Murray, University of Toronto, Toronto, Canada

Structure of Extracellular Glycolipids Produced by Yeast
Alexander P. Tulloch, Prarie Regional Research Laboratory, National Research Council, Saskatoon, Sask., Canada

SESSION IV: Chairman: Alan D. Elbein

Biosynthesis of Steryl Glucosides and Acylated Steryl Glucosides in Plants
Alan D. Elbein, professor, Department of Biochemistry, University of Texas Health Science Center, San Antonio, Tex.

The Role of Mono- and Oligosaccharide-Dolichol Derivatives in the Biosynthesis of Mammalian Glycoproteins
Edward Heath, professor and chairman, Department of Biochemistry, University of Pittsburgh School of Medicine, Pittsburgh, Pa.

Metabolism of Sugar Polyprenols in Plants
W.T. Forsee, Department of Biochemistry, University of Texas Health Science Center, San Antonio, Tex.

June 8
SESSION V: Chairman, John M. McKibbin

Structure Studies on Human and Canine Intestinal Fucolipids
John M. McKibbin, professor and chairman, Department of Biochemistry, University of Alabama, Birmingham, Ala.

Gastric A- and B-Active Glycolipids: Micro- and Macroheterogeneity
Martin I. Horowitz, professor, Department of Biochemistry, New York Medical College, Valhalla, N.Y.

Specific Microanalysis of Intact Fucolipids and Other Glycolipids by Mass Spectrometry
Karl A. Karlsson, Department of Medical Biochemistry, University of Goteborg, Goteborg, Sweden

SESSION VI: Chairman, John M. McKibbin

Blood Group Glycolipids in Normal and Tumor Tissue
Sen-Itiroh Hakomori, professor, Department of Pathobiology, University of Washington, Seattle, Wash.

Fucolipids and Viral Transformation
Sheldon Steiner, Department of Virology and Epidemiology, Baylor College of Medicine, Houston, Tex.

Biosynthesis in vitro of Neutral Glycosphingolipids in Normal Tissues and Cultured Cells
Subhash Basu, Department of Chemistry, University of Notre Dame, Notre Dame, Ind.

Studies on the Use of Carbohydrate Containing Ligands in the Affinity Chromatrography of Neutral Glycosphingolipid Hydrolases
Charles C. Sweeley, professor, Department of Biochemistry, Michigan State University, East Lansing, Mich.

REGISTRATION FEES

	Preregistration	On-site
Nonmembers	$175	$200
Members	150	175
Students	50	75

Registration forms and more information about the Short Course on Glycolipids are available from: AOCS, 508 S. Sixth St., Champaign, Ill. 61820.

AIChE announces new officers and directors

At its 67th Annual Meeting held last month, the American Institute of Chemical Engineers announced the election of officers and four new directors.

Those elected were: President, Kenneth E. Coulter, Dow Chemical Company; Vice-President, Klaus D. Timmerhaus, University of Colorado; Secretary, F.J. Van Antwerpen, AIChE executive secretary; Treasurer, A. Sumner West, Rohm and Haas Company; and Directors, John B. Butt, Northwestern University, Albert V. Caselli, Shell Development Company, Charles C. Neas, Union Carbide, and John W. Prados, University of Tennessee. ■

Federation of Societies for Paint Technology changes name

The name of the Federation of Societies for Paint Technology has been changed to the Federation of Societies for Coatings Technology. The new name was approved during the federation's Annual Meeting in November.

The change from "paint" to "coatings" was made to more adequately describe the scope of federation activities in the industry it serves.

In other business, AOCS member Francis Scofield, consultant, Washington, D.C., was appointed chairman of the Heckel Award Committee. Roy W. Tess, Shell Chemical Co., Houston, Tex., was reelected president of the Paint Research Institute. Tess is a member of AOCS.

J.C. Leslie, Tnemec Co., Inc., became the fifty-third president of the federation during the meeting. William Dunn, Dumar Paints & Chemicals, Ltd., was named president-elect, and Neil S. Estrada, Reichhold Chemicals, Inc., was elected treasurer. ■

All Day Symposium sponsored by North Central Section

Six papers were presented at the All-Day Symposium sponsored by the North Central Section of AOCS. The symposium was held at the O'Hare International Tower in January.

James P. Van Meter, Chemistry Division Research Labs, Eastman Kodak Co., presented a paper on "Liquid Crystals: Once Over Lightly," which included a discussion of the preparation, structure, and physical properties of liquid crystals. The use of liquid crystals in electro-optical devices and the mechanism of these effects also were covered.

"Antioxidant Activity and Stability of 6-Hydroxychroman-2-carboxylic Acids," was the topic presented by Winifred M. Cort, group leader, Product Development Department, Hoffmann-LaRoche, Inc. The comparative antioxidant activity of a number of 6-hydroxychromas to currently used food-grade antioxidants was reported. In addition, antioxidant activity, solubility, assay, stability, synergistic reactions, and a possible mode of action of 6-hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid were presented.

Discussing "Lipid Oxidation in Peanuts and Peanut Products," Allen J. St. Angelo, Protein Properties Research, Oilseed and Food Laboratory, Southern Regional Research Center, covered enzymatic and nonenzymatic causes of lipid oxidation in peanut butter and raw and roasted peanuts that may possibly affect shelf life stability. The role of lipid-protein interaction in deoiled meals and in proteins extracted from raw and roasted whole peanuts and peanut butter also was discussed.

Tom H. Applewhite, manager, Edible Oil Products Laboratory, Kraftco Corp., discussed "Dietary *Trans* Fatty Acids and Cardiovascular Disease." This presentation included a review of past studies aimed at the relationships between *trans* fatty acids and cardiovascular disease. A number of animal studies and some human work are germane to this end, he noted. This work and related animal work on essential fatty acid, protein, and fat requirements would provide adequate background to put some of the recent work into perspective.

"Triticale: Man-Made Food Crop for a Hungry World," was the topic of a presentation by Bruce E. McDonald, professor, Faculty of Home Economics, The University of Manitoba. This presentation covered: (A) a brief overview of the development of triticale, including a simple statement describing what triticale is from a botanical point of view; (B) a discussion of breeding programs presently in progress and reasons for optimism for the crop; (C) a brief summary of the chemical composition and biologically assessed nutritive value of triticale compared to other cereals; and (D) a summary of the future role of triticale in helping feed an ever expanding world population.

Discussing "Application of Modified Food Starches in Food Systems," Richard R. Hahn, A.E. Staley Co., explained the uses of modified food starches in terms of their properties and how these effects are useful in food applications, such as canning. The development of starch technology was discussed with the objective of overcoming problems of retort stability, heat tolerance, freeze-thaw stability, and viscosity control in food systems. ■