Subcellular Particulates Short Course Scheduled for June 16-19

Video-Taped Lab Demonstrations Planned Subcellular Particulates: Medical and Biochemical Applications course program is complete. Emphasis is placed on Pathology, Isolation Techniques, Identification, Characterization and Lipid Composition as applied to Normal and Pathological Tissues.

The first AOCS short course to be scheduled at a medical institution is planned for the week of June 16–19. Another first for the AOCS will be the use of prerecorded videotaped laboratory demonstrations in connection with this course. Indiana University Medical Center, Indianapolis, Indiana will be the host institution. Organized by A. N. Siakotos, Sidney Fleischer and Wolfgang Zeman.

The program will include an outstanding group of biologists, pathologists, biochemists and virologists, including Wolfgang Zeman, Fritiof S. Sjostrand, Sidney Goldfischer, Nicholas K. Gonatas, William Smith, Dante G. Scarpelli, Sidney Fleischer, A. N. Siakotos, David Brown, John Gerin, and George Rouser.

This AOCS short course is intended for medical research workers, chemists, and biologists. The basic goal is to survey normal, pathological and experimental organelle systems amenable to subcellular fractionation technology. Major problems of interest to the pathologist will be brought to the attention of other research workers. Efforts will be made to present the latest developments in methods of organelle separation and characterization which are applicable to the study of such problems in pathology. Latest techniques in subcellular isolation methodology will be demonstrated including differential, density gradient and zonal centrifugation. Other techniques will include foam fractionation, filtration, and flotation methods. Subcellular procedures, including virus isolation, will be presented for brain, heart, kidney, liver and culture cells. Nuclei, endothelial cells, mitochondria, mitochondrial subparticles, myelin, microsomes, ribosomes, lipofuscin, and virus particles will be emphasized, but other particles also will be considered. Emphasis will be placed on the isolation, electron and phase microscopic identification, lipid composition, and biochemical characterization of particulates from normal and pathological tissue.

The program has been completed and is as follows. TITLE: Subcellular Particulates: Medical and Biochemical Applications. Chairmen: A. N. Siakotos and Sidney Fleischer

Day I
Morning Session:

1. Introduction. Wolfgang Zeman, M.D., Division of Neuropathology, Indiana University Medical Center.
2. Critical Evaluation of Ultrastructural Phenomena, Fritiof S. Sjostrand, Ph.D., Department of Zoology, University of California
3. "Marker" Enzymes and Identification of Subcellular Organelles for Light and Electron Microscopy. Sidney Goldfischer, M.D., Department of Pathology, Albert Einstein College of Medicine, Yeshiva University.

Afternoon Session:

4. Neuropathology: problems and potential applications. N. K. Gonatas, M.D., Department of Neuropathology, University of Pennsylvania Medical School.
5. Pigment Ultrastructure in Septic Granulomatosis. William Smith, M.D., Department of Pathology, University of Southern California-Los Angeles County Medical Center.
6. Problems in experimental and general pathology. Dante Scarpelli, M.D., Department of Pathology, University of Kansas Medical Center.

Day II
Morning Session:

7. Particulate isolation technology for heart, liver, and kidney. Sidney Fleischer, Ph.D., Department of Molecular Biology, Vanderbilt University.
8. Subcellular isolation methodology as applied to brain. A. N. Siakotos, Ph.D., Department of Pathology, Indiana University Medical Center.
9. The isolation of subcellular particulates by zonal centrifuge techniques. David Brown, Ph.D., Molecular Anatomy Section, Oak Ridge National Laboratories.

Afternoon Session:

10. The isolation and characterization of virus particles from tissues. John Gerin, Ph.D., National Institute of Allergic and Infectious Diseases, National Institutes of Health.
11. Hereditary disorders in humans and animals: A general chemical study from the standpoint of subcellular particulates. George Rouser, Ph.D., Department of Neurobiology, City of Hope Medical Center.

Day III
Demonstrations

Day IV
Demonstrations

Meetings and demonstrations will be held at the Medical Sciences Building. Present plans are to allow each lecturer 60 minutes or more for formal lecture. On the final two days of the course, demonstrations and detailed discussions will be presented so that the participants may gain a working knowledge of the techniques and gain proficiency in interpretations of the results. Demonstrations of the centrifruge procedures will be pre-recorded on video tape and details will be shown in the proper perspective—with close-ups, etc.

The registration fee has been set at $100. Rooms are available for the four days at $7–14 per day. For further information contact Dr. A. N. Siakotos, Department of Pathology, Indiana University Medical Center, Indianapolis, Indiana 46202.

Dr. VanderWal Retires from Armour and Company

R. J. VanderWal ('45) is retiring from Armour and Company, Food Research Division, on March 1, 1969 completing nearly 33 years of service.

R. J. Vander Wal

Dr. VanderWal is well known to members of the American Oil Chemists' Society for his active work in the Society: Journal Technical Correspondent, 1949–55; Advertising, 1951; Publicity Chairman for two National Conventions, 1953, 1956; Journal Committee, 1956–63; Education Committee, 1964–; Biochemistry and Nutrition Committee, 1964–; Head of Lipids Award Canvassing Committee, 1968.

He joined Armour and Company in 1936 as a member of a pioneering research team directed toward solving the utilization problem of inedible fats and oils. The outcome of the work of this group resulted in the establishment of a multi-million dollar industry. Dr. VanderWal is perhaps best known for his theoretical work on glyceride structure. His theory of 1, 3 random, 2 random distribution, which he initiated as a means of explaining glyceride composition, has received international interest. Dr. Vander Wal has 20 patents issued in his name and has published 30 papers in the scientific literature, including two book chapters.

After retirement, Dr. VanderWal expects to continue research in the food science area at Central College, Pella, Iowa where he has accepted a position as Professor of Chemistry.