

In continuing my work I hope to discover preventions of congenital malformations which may be of great benefit to mankind.

Bibliography

- D'Amour, F. E. and Blood, F. R., "Manual for Laboratory Work in Mammalian Physiology", University of Chicago Press, 1956
- Griffith, J. Q., Jr. and Farris, E. T., "The Rat in Laboratory Investigation", J. B. Lippincott Co., 1942
- Ingalls, T. H. "Congenital Deformities", Scientific American (Oct. 1957), 109-116.
- Warkany, J., "Congenital Malformations", Pediatrics, Vol. 19, Part II, No. 4 (April 1957) 719-792.

THE TENTH ANNUAL FISK UNIVERSITY INFRARED SPECTROSCOPY INSTITUTE

The Tenth Annual Fisk University Infrared Spectroscopy Institute will be held in Nashville, Tennessee, at Fisk University, August 24-29, 1959.

The Fisk Infrared Institute is designed to provide chemists, physicists, engineers and medical scientists with sufficient background training to make effective use of infrared spectroscopy in their laboratories.

The faculty this year includes:

- Elkan R. Blount, Polaroid Corporation
- Norman B. Colthup, American Cyanamid Company
- Lamar Field, Vanderbilt University
- Nelson Fuson, Fisk University
- William Galloway, Beckman Instrument Company
- Ernest A. Jones, Vanderbilt University
- James R. Lawson, Fisk University
- Henry W. Morgan, Oak Ridge National Laboratory
- Philip Sadtler, Sadtler Research Laboratories
- Clara D. Smith, Smith Consulting Laboratory
- Van Zandt Williams, Perkin-Elmer Corporation

The Institute program is organized so that each morning two general lectures and discussions are held on the theory, techniques, and application of infrared spectroscopy. The afternoons are reserved for laboratory work, a workshop devoted to the interpretation of infrared spectra, and for individual conferences with the Institute faculty. The Institute has two laboratory programs. The first or "basic" program is planned so that participants with no previous experience will gain a working knowledge of infrared instrumentation, accessories, techniques, and practical experience in the interpretation of spectra. The second, more flexible laboratory program is available for experienced participants wishing to concentrate on particular instruments, accessories, or techniques or who wish to work on a specific application with the Institute facilities.

In the evenings, the facilities of the laboratories will be made available to the participants to investigate problems of special interest to them. The Institute faculty will be available for consultation at these sessions. Laboratory facilities will include more than a dozen infrared spectrophotometers from prominent instrument companies. Also on hand will be the latest sampling accessories and other necessary devices to provide training in the various laboratory techniques.

Besides being introduced to the methods and scope of infrared spectroscopy, Institute participants will have ample opportunity during the week to discuss problems of their own particular interest with the Institute faculty.

As a result of the widespread acceptance of gas chromatography as an analytical tool that complements as well as supplements the information provided by infrared spectroscopy, a special session devoted to gas chromatography has been scheduled for a four day period preceding the Infrared Institute. This session, extending from the 19-22 of August will provide instruction in the theory, applications and techniques of gas chromatography. There will be available for use in the laboratory several gas chromatography units manufactured by the leading instrument companies. Institute participants may at their option elect to attend this course.

Further information as well as application forms may be obtained by writing Nelson Fuson, Director, Infrared Spectroscopy Institute, Fisk University, Nashville 8, Tennessee.

NEWS OF TENNESSEE SCIENCE

Dr. Royal E. Shanks of the UT Botany Department is spending his fifth consecutive summer in Alaska. He is being accompanied by John J. Koranda, and will study soils and vegetation at elevations of 2,000 feet on the north side of the Brooks Mountains. These studies are being aided by a grant from the Arctic Institute of North America.

Dr. Howard F. L. Rock of the UT Botany Department is directing a study on the revision of the *Tetradus* section of *Helenium*, a genus of American herbs. Specimens will be collected in Mexico and the Southwestern United States. This study is being aided by a \$9,900 grant from the National Science Foundation.

A Workshop in Science for outstanding high school boys will be held at the University of Tennessee, June 15-July 24, 1959. This is being financed by a \$17,000 grant from the National Science Foundation, and is open to high school boys from Tennessee and to those from Kentucky, Georgia, Alabama, North and South Carolina within a 200-mile radius of Knoxville. The orientation course will consist of lectures by science professors, group discussions, laboratory experiments and trips to nearby industrial plants and research laboratories. During the final two weeks each boy will work on a special project which is of particular interest to him. The boys will be offered a broad program in the physical sciences. Dr. J. H. Wood, Professor of Chemistry, is director of the program.

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