

Special Course in Statistics To Precede 58th Spring Meeting

"Introduction to Statistical Methods for Chemists," is the title of a special short course sponsored by the AOCS Education and Statistics Committee. It will be held just prior to the 58th Annual Convention at the Roosevelt Hotel in New Orleans, May 6-7, 1967. Its purpose is to provide an understanding of the usefulness of statistics as it is applied to industrial, chemical and engineering problems. Instructors will be H. P. Andrews and R. D. Snee of Rutgers University Statistics Center.

The course has been designed for chemists and chemical engineers engaged in research, development, production and control, in the fat, oil and related chemical process industries. No prior training in statistics nor higher mathematics will be assumed.

Two days of a combination of lecture-discussion and laboratory workshop sessions will provide instruction and actual experience in using the statistical methods which have been found widely applicable to problems in industry. Although the basic concepts will be adequately explained, the course will be problem-oriented with major emphasis on practical application of the useful statistical techniques.

The intent is to provide a basic appreciation for and understanding of *where-and-how* statistics can be used in the problems which chemists and engineers encounter in industry. Participants in this course will achieve a mastery of some valuable, but easy-to-use, statistical methods which can be immediately applied in their work. Special emphasis will be placed on the use of simple plotting and other graphical techniques.

Course Content

Concepts: The role of statistics in experimentation and decision making, uncertainty and the nature of variability.

Normal Distribution Statistics: Frequency distribution, central tendency and dispersion, mean and standard deviation, probability limits, other indices.

Behavior of Means: Central limit theorem, "t" distribution for small samples, confidence intervals, tests of significance, relationship to control charts, etc.

Comparison of Means: Tests of significance "t" and "F." Analysis of variance, multiple comparisons.

Simple Linear Correlation and Regression: What it may or may not indicate.

Introductory Design of Experiments: Analysis and interpretation.

Evolutionary Operation: Simple experimentation in the production environment.

Instructors

H. P. Andrews is Associate Professor of Statistics at Rutgers, the State University of New Jersey. He is Chairman of the Statistics Committee of the AOCS and has for several years served as statistical consultant to many of the Society's Technical Committees. He was for many years Chief Statistician for Swift & Company's Research Laboratories. His undergraduate degree was in Agricultural Biochemistry at North Carolina State University and his graduate degrees were in Agricultural and Biological Chemistry with minors in Statistics from North Carolina and Pennsylvania State Universities. He has been a frequent lecturer in applied and experimental statistics in this country and has taught and lectured in India and Mexico.

R. D. Snee is on the faculty of the Statistics Center at Rutgers University where he will receive his PhD degree in June 1967. He earned his BA degree in Mathematics at Washington and Jefferson College and his MS degree in Statistics at Rutgers. His training and interests are in applied and experimental statistics, and at present he is the consulting statistician to Rutgers' College of Agriculture and Environmental Science. He has worked with the Applied Statistics group at Jones & Laughlin Steel Com-

pany and recently lectured with Dr. Andrews in an Advanced Seminar on Statistics for Research and Quality Control in Industry in Mexico City.

The course will begin at 9:00 AM Saturday, May 6 in the Creole Suite—Room D of the Roosevelt Hotel. It will continue, with coffee breaks and luncheon, until 5:00 PM. On Sunday, May 7, the same schedule will be used, concluding in time for the Convention's "Early Arrivals" schedule (not before 4:00 PM).

Luncheons will be provided and hotel reservations, via the AOCS convention procedures, are recommended.

Regular fees will be \$75; fee for nonmembers is \$100. This fee includes tuition, supplies and equipment, coffee and luncheons. Registrations will be limited to 40 and will be accepted as they are received.

The AOCS reserves the right to cancel the course in the event that insufficient registrations are not received. If such cancellation is necessary the registration fee will be returned promptly.

ISF Registration Now for 1968; Chicago Is 1970 Meeting Site

Advance notice has been given of the convening of the IXth Congress of the International Society for Fat Research. This meeting will be held in Rotterdam, The Netherlands, Sept. 16-21, 1968.

The program, devoted to fats and their derivatives, will consist of lectures by invited speakers and presentation of approximately 120 papers (partly in parallel sessions).

The sections will include: *Lipids*—Biochemistry and Nutrition; *Oils and Fats*—Analysis, Structure and Synthesis; *Oils and Fats*—technology; *Soaps and Detergents*—Physical Chemistry, Analysis and Technology; *Chemicals*—Fatty Acid Derivatives, Detergent Raw Materials.

Preliminary registration has already begun, and should be completed before June 15, 1967. For further information write to the Secretariat, IXth ISF Congress, Unilever Research Laboratory, P.O. Box 114, Vlaardingen, The Netherlands.

Chicago has been designated as the meeting site for the ISF 1970 meeting.

Emphasis on Protein Foods at India Research Institute

The International Symposium on Protein Foods and Concentrates will be held at the Central Food Technological Research Institute in Mysore, India, from June 27 to July 4, 1967. Processing, consumer acceptance and marketing in the countries of South and Southeast Asia will be the primary concerns of the meeting. Topics of the technical sessions are as follows: 1) General Aspects of Protein Foods; 2) Economic Resources; 3) Public Health and Clinical Aspects; 4) Amino Acid Production and Supplementation; 5) Toxicology; 6) Protein Concentrates and Isolates—Technology and Economics of Production; 7) Consumer Acceptance and Marketing.

The symposium is sponsored by the Council of Scientific and Industrial Research, New Delhi, India; the National Institutes of Health, USA; and the Association of Food Technologists, India. Other international agencies are being invited to join as co-sponsors. Speakers and discussants from many countries and international organizations have been requested to participate. The Symposium is open to all interested persons.

For further information contact: B. L. Alma and T. N. R. Rao, Organizing Secretaries, International Symposium on Protein Foods and Concentrates, Central Food Technological Research Institute, Mysore-2, India.