



R. T. O'Connor
General Chairman

850 Hear 100 Papers at 55th Annual Meeting

**Convention Committee, Staff
Surprised by Large Attendance**



H. P. Dupuy
Technical Program

The AOCS Annual (Spring) Meetings have normally brought 450-550 people together. To exceed a total attendance of 600 was very rare. This year, past performance simply was not to be relied upon.

The first hint of the proportions the New Orleans Meeting would reach came upon completion of the Technical Program. There were nearly 100 papers scheduled for delivery. In the past, attendance at AOCS Meetings has with few exceptions been approximately eight times the number of papers on the Program. The New Orleans Committee discussed the matter with the Chicago Office, and it was cautiously concluded that this year would be one of those exceptions. Then pre-registrations began to arrive, and eyes began to open!

Ten days before the Meeting was to begin, over 700 people had registered.

Adjustment of virtually every planned function was necessary. Eight hundred and fifty people attended this Annual Meeting. R. T. O'Connor and the New Orleans Committee are to be commended for the remarkable manner in which they provided for nearly twice as many people as might have been expected. The Roosevelt Hotel management also is to be complimented for their unselfish attitude in placing additional staff and facilities at our disposal with little or no notice.

Those not fortunate enough to attend and participate in this exceptional Annual Meeting are offered the following glimpse of activities through the eye of the AOCS camera.



GOVERNING BOARD

First to "roll up their sleeves" in New Orleans were the AOCS Governing Board members (left photo), who convened on Sunday, April 19 at 1:00 p.m. A detailed commentary on the work appeared in the June issue, page 8. Attending the meeting were (clockwise from left): L. O. Leenerts, National Program and Planning Committee Chairman; J. C. Harris; M. W. Formo, Minneapolis Fall Meeting Chairman; 1963-64 President W. O. Lundberg; R. T.



MIXER

O'Connor; J. C. Cowan; A. E. MacGee; R. W. Bates; N. D. Embree; A. R. Baldwin; C. W. Hoerr; C. H. Hauber; 1964-65 President R. C. Stillman; and K. E. Holt. Center background: N. H. Kuhrt, Education Committee Chairman; and George Rouser, Awards Committee Chairman.

The Board adjourned just in time to join several hundred early registrants at the Pre-Convention Mixer held in the Roosevelt Hotel's Grand Ballroom that evening (right).



OPENING BUSINESS SESSION

The 55th Annual Meeting officially convened Monday, April 20, at 9:30 a.m. R. T. O'Connor, General Chairman (left photo), welcomed the AOCS to New Orleans in the name of the local Convention Committee, as AOCS President W. O. Lundberg, Treasurer A. F. Kapecki and Secretary C. W. Hoerr await their turns at the podium. President Lundberg delivered his address, entitled "A Bright Future in Steady Growth" (published in the June issue, page 6), after which he introduced AOAC President C. V. Marshall. Dr. Marshall addressed the convention body, emphasizing the continued need for close inter-society cooperation. Drs. Lundberg and Marshall are seen discussing



matters of common interest (center photo) soon after the Opening Session ended. New Orleans Mayor V. H. Shiro found AOCS members most receptive to his warm welcome, and received applause of approval as he named Dr. Lundberg an Honorary Citizen of his city (right photo). Reports of the Secretary and Treasurer offered much of the information reported in the commentary on Governing Board activities. The final highlight of the Opening Session was the Report of the Nominating and Elections Committee, delivered by A. E. MacGee, and certification of the new Officers, as reported in the May issue.

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• Industry Items

UNION CARBIDE CORP., New York, N.Y., now has in production a plant at Texas City, Texas, for producing raw materials for new, soft, biodegradable detergents. Operating under the corporation's Olefins Div., the new plant has the capacity to satisfy their own needs and also enable them to supply these materials to industry.

BORDERS ELECTRONICS Co., INC., Pennsauken, N. J., has been appointed distributor for Evans Electro Selenium, Ltd., London, through an arrangement with International Sales Co. Evans produces a quality line of colorimeters, photometers, absorptiometers, electrophoresis equipment and other photo-electric, scientific measuring instruments.

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New Orleans Highlights . . .

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TECHNICAL SESSIONS



COMMITTEE MEETINGS



The three-day series of Technical Sessions and Committee Meetings began as the Opening Session ended. Among the outstanding Sessions of the day were the two which made up the Symposium entitled "Analysis of Unusual and Minor Constituents." Morning Session participants (left photo, left to right) were: B. N. Stuckey; I. A. Wolff; R. T. O'Connor, Chairman; and George Rouser. Afternoon papers were delivered by (right photo, left to right) T. H.

Applewhite; R. A. Stein; G. Maerker; L. S. Silbert; and L. A. Goldblatt, Chairman. The Education Committee (center photo) met Monday afternoon to discuss the 1964 Symposium (which supplants the annual Short Course) "Quantitative Methodology in Lipid Research," additional plans for the AOCS-ASQC Short Courses and to discuss tentative scheduling for 1965 as well. Committee Chairman N. H. Kuhrt is shown at the head table, leading discussions.



PAST PRESIDENTS' DINNER



The Past Presidents of the AOCS met for their Annual Dinner on Monday evening in the Petit Salon of the Royal Orleans Hotel. Before dinner, they gathered for an enjoyable hour of reminiscing about "the old days" and discussion of days to come as well. Upper left photo (left to right): N. D. Embree (1959-60) and R. R. King (1945-46) find obvious enjoyment in looking about them at their colleagues who represent decades of AOCS administration. Upper right photo: Mrs. R. H. Fash, widow of the late 1926-27 AOCS President, was the uncontested "Belle of the Ball" at the Past Presidents' Dinner. All expressed the

hope that she will consent to brighten many more of these annual affairs in the future. Lower left photo (left to right): R. W. Bates (1960-61), J. R. Mays, Jr. (1950-51) discuss the difference a decade has made in the AOCS, as W. O. Lundberg, retiring President, listens in. Lower right photo: When asked to pose for the photographer, H. C. Dormitzer (1939-40) gathered A. E. MacGee (1962-63) and A. R. Baldwin (1961-62) in to flank him. Drs. MacGee and Baldwin were obviously proud to be a part of this photo.

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Glycerine Production Down

According to the U.S. Dept. of Commerce, production of crude glycerine (including synthetic) for the month of April was 27.4 million lb, down 1.7 million lb from March, and up 5.7 million lb from April last year.

At the end of April producers' stocks of crude and refined glycerine totalled 43.0 million lb, down 3.9 million lb from the end of March, and down 5.9 million lb from April 1963.

APRIL
(Million lb)
PRELIMINARY

Glyceride 100% basis	Factory production		Producers' stocks	
	Apr. 1964	% Change from Mar. 1964	End of Apr. 1964	% Change from Mar. 1964
Crude	27.4*	-5.8	16.5	-14.5
Refined, all grades	28.5	0	26.5	-4.0
			43.0	-8.3

* Includes synthetic glycerine.

New Orleans Highlights

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JOURNAL COMMITTEE

The AOCS began to stir quite early Tuesday morning, for the Journal Committee Breakfast was scheduled for 8:00 a.m. This turned out to be one of the most important gatherings at the Annual Meeting, as the Committee, under the direction of JAOCS Editor A. R. Baldwin, considered such important subjects as subscription rates, advertising rates, Journal format and cover design. The photographer

found the Committee engrossed in a discussion between Dr. Baldwin and G. C. Cavanagh on the subject of coordinating review of manuscripts. Clockwise from extreme left: C. W. Hoerr, J. C. Harris, A. F. Kapacki, C. H. Hauber, J. C. Cowan, F. W. Quackenbush, Dr. Baldwin, Raymond Reiser, R. A. Reiners, Mr. Cavanagh, George Rouser, R. T. O'Connor and L. A. Goldblatt.

TALL OIL

TECHNICAL SAFETY



The unusually diversified Tall Oil Symposium prompted industry-wide interest. The Monday Afternoon Session of the day-long Symposium presented (left photo, left to right) R. E. Thrush, L. E. Najder, E. W. Eckey and W. M. Kraft; while those attending the Tuesday Morning Session heard (top photo, left to right) R. O. Austin; R. H. Leonard; L. D. Metcalfe; S. E. Hanan; E. H. Stoll; H. N.

Haberstrok; J. P. Krumbein, Chairman; G. H. Eick; S. T. Bauer; and W. M. Kraft.

The Technical Safety Committee presented its semi-annual Technical Session on Tuesday Morning (lower right photo). Session Chairman N. H. Moore (left) poses with two of his scheduled speakers, L. W. Smalling and W. L. Hampton.

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THE POPE TESTING LABORATORIES Analytical Chemists

2618½ Main

P.O. Box 903

Dallas, Tex.

• New Literature

CITY CHEMICAL CORP. has issued a 352-page, 30,000 list chemical catalog, designed to serve all industry. This new Giant Catalog of Chemicals becomes a valuable reference guide; it also states prices for small and large quantities, indexed. (132 W. 22nd St., New York, N.Y. 10011)

DIAMOND ALKALI CO. now has available a 20-page brochure, "An Informal Introduction to Diamond Chlorinated Solvents." It describes their use as refrigerants, with many others; and the discovery, history and use is interestingly treated with wood cuts, copies of old ads and photos. (Public Relations Dept., 300 Union Commerce Bldg., Cleveland, Ohio 44114)

FOSTORIA CORP. has released a 6-page illustrated brochure that describes its line of solid-state devices for the proportional control of electrical power in the full range of voltage and current ratings, called Fostol Power Controllers. (Industrial Electronics Div., Fostoria, Ohio)

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mg%) is found in natives of Ethiopia whose diet is low in fat content; and the cholesterol-ester titer is often depressed. X-ray findings show that aortic atherosclerosis is widespread among Ethiopians and electrocardiographic findings reveal a high incidence of diffuse cardiosclerosis. Of diseases predisposing to atherosclerosis, hypertension and diabetes mellitus are most prevalent in Ethiopia.

ATHEROSCLEROSIS IN CHRONIC NONSPECIFIC LUNG DISEASES. M. A. Shalevich and G. E. Sarankin (Dept. of Pathological Anatomy, Moscow Clinical Hospital No. 4 and Chair of Propedeutics of Internal Diseases of the Pediatric Faculty, Pirogov Second Moscow Institute of Medicine). *Federation Proc.* 22, T857-860 (1963). (*Terapevticheskiy Arkhiv* 34(9), 38, 1962). The general pattern of the spread of atherosclerosis in different vascular beds of the aorta and the arteries of the heart and brain, as well as the general age and sex characteristics of atherosclerosis, applies in the case of patients with chronic nonspecific lung diseases. The reasons for the unusual development and course of atherosclerosis in patients with nonspecific lung diseases may well be the hypochlosteremia arising as a result of intensified lipid metabolism in the lungs and the hypotension frequently observed in these patients. Chronic hypoxia probably inhibits the development of atherosclerosis.

ARTERIOVENOUS DIFFERENCE IN BLOOD CHOLESTEROL LEVELS IN DIFFERENT FUNCTIONAL STATES OF THE CEREBRAL CORTEX. K. G. Karagezyan and M. G. Urgandzhyan (Inst. of Biochem., Armenian SSR Academy of Sciences). *Federation Proc.* 22, T973-975 (1963). (*Fiziologicheskii Zhurnal SSSR imeni I. M. Sechenova*, 48(11), 1377, 1962). Under normal conditions the brain releases free cholesterol into the peripheral blood. Electrocutaneous ("pain") excitation causes a marked increase in the free cholesterol level of the blood flowing out of the brain and somewhat lowers the cholesterol level of the blood flowing into the brain. There is a positive arteriovenous difference in the free cholesterol level after deep conditioned inhibition, i.e., the level increases in the arterial blood and decreased in the venous blood. Hence, during deep inhibition the brain absorbs free cholesterol from the peripheral blood instead of releasing it.

PHOSPHOLIPID AND PLASMALOGEN CHANGES DURING FUNCTIONAL DIFFERENTIATION OF ADIPOSE TISSUE IN THE NEWBORN RAT. G. A. Morrill and M. M. Rapport (Depts. of Physiol. and Biochem., The Albert Einstein College of Med., Yeshiva Univ., N. Y. 61, N. Y.). *J. Biol. Chem.* 239, 740-42 (1964). The changes in the aldehyde hydrogenic lipid, phospholipid, total lipid, nucleic acid and water content (expressed per mg of tissue DNA phosphorus) of developing adipose tissue of newborn rats have been followed during the first 8 days of life. The results indicate that the rate of deposition of total lipid referred to the DNA content of the tissue rises rapidly in the first 2 days post-natally, whereas the water content per cell does not decrease until the 3rd day. As the adipose tissue fills with lipid, the concentration of both plasmalogen and phospholipid increase with respect to DNA content, suggesting a net synthesis of phospholipid per cell during the period of accelerated lipid deposition. Plasmalogen, however, accumulates less rapidly than the total phospholipid, indicating a differential accumulation of nonaldehyde hydrogenic phospholipids. A characteristic of developing adipose tissue is the constant value for the RNA:DNA ratio.

THE EFFECT OF A PHTHALANILIDE DERIVATIVE ON LIPIDE METABOLISM IN L1210 LEUKEMIA CELLS. A. Gellhorn, M. Wagner, M. Rechler, Z. Koren and W. Benjamin (Dept. of Med. and Inst. of Cancer Res., College of Physicians and Surgeons, Columbia Univ., New York, N. Y.). *Cancer Res.* 24, 400-8 (1964). An active anti-leukemic phthalanilide, 2-chloro-4'-4"-di-2-imidazolyl-2-ylterephthalanilide (NSC-60339) markedly inhibited the *in vitro* incorporation of acetate into lipides of L1210 cells after *in vivo* administration. The depression of lipide biosynthesis is considered to be the primary mechanism of anti-leukemic action of this class of compounds because a) it is not found when an inactive congener is injected into tumor-bearing mice, b) there is only partial inhibition of lipide metabolism in the phthalanilide-resistant L1210 tumor following treatment, c) the drug inhibits fatty acid and cholesterol synthesis to a significantly greater extent than protein synthesis, d) methotrexate, 6-mercaptopurine, 5-fluorouracil, cyclophosphamide, and a nitrosourea derivative, all therapeutically effective against L1210, fail to depress lipide biosynthesis significantly and e) the effect of the phthalanilide on fatty acid synthesis in normal adipose tissue is an irregular inhibition in contrast to a regular and profound depression of lipide metabolism in L1210 cells.

BIOSYNTHESIS OF SKIN STEROLS. VI. ENZYMATIC DEMETHYLATION OF LANOSTEROL AND LANOSTA-7,24-DIEN-3 β -OL BY HOMOGENATES OF RAT LIVER. J. L. Gaylor (Graduate School of Nutrition, Cornell Univ., Ithaca, N. Y.). *J. Biol. Chem.* 239, 756-61 (1964). Bucher homogenates of rat liver convert (demethylate) lanosterol and lanosta-7,24-dien-3 β -ol to C₂₇-sterols. The maxi-

New Orleans Highlights

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LADIES' ACTIVITIES



Tuesday was a big day for the ladies as well. They began with a Continental Breakfast at the Roosevelt Hotel, boarded busses for a tour of the Ponchartrain Lakefront, parks, fountains and outstanding residential areas. Luncheon at Vista Shores Country Club (Bayon St. John) was followed by shopping and preparation for the Annual Banquet that evening. The New Orleans Ladies' Committee (left photo) is to be congratulated for the fine program that awaited the record number of ladies who attended the 55th Annual Meeting. They are (left to right): Mrs. J. P. Hughes; Mrs. J. J. Ganucheau; Mrs. R. O. Feuge; Mrs. L. E. Brown; Mrs. Joseph Pominski; Mrs. N. B. Knoephler; Mrs. H. L. E. Vix, Chairman; Mrs. S. D. Jones; Mrs. J. J. Shadaro; Mrs. H. K. Gardner; and Mrs. R. T. O'Connor.

Among the Committees convening on Tuesday to shape the year ahead were the National Program and Planning



SYMPOSIA COMMITTEES



Committee, whose formidable task it is to coordinate nationwide efforts to plan major portions of the AOCS Technical Programs presented each year. Center photo (clockwise from extreme left): R. J. Buswell; S. C. Miksta; R. T. O'Connor; R. A. Reiners (only hand showing); L. O. Leenerts, Chairman; Raymond Reiser; H. P. Dupuy; N. H. Moore; D. C. Porter; and T. P. Matson.

A highlight of both Monday and Tuesday Technical Programs was the Biodegradable Detergents Symposium. Many of the authors who participated in this major presentation are to be found in the above right photo, left to right: L. J. Garrison; W. A. Sweeney; J. Rubenfeld; F. J. Coughlin; Eric Jungermann, Chairman; R. D. Swisher; C. A. Brunner; E. S. Pattison; R. L. Huddleston; E. C. Steinle; and J. H. McFarland. Papers of this Symposium will be published in a later issue. (Continued on page 43)

New Products

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THE V. D. ANDERSON Co., Cleveland, Ohio, announces the availability of a small Float Trap of complete stainless steel construction, engineered for corrosive applications where continuous and automatic drainage is essential. The size No. 81 Trap is also available.

THE MERIAM INSTRUMENT Co., Cleveland, Ohio, announces their new Model 34FB2 Micromanometer, designed as a

primary standard of utmost accuracy, high sensitivity and ease of operation. Recommended laboratory applications include calibration and testing of low pressure or vacuum gauges, draft gauges, inclined manometers, low pressure diaphragm or bellow controls, etc.

LIMIT RESEARCH CORP., Darien, Conn., announces a heated IR gas cell for all spectrophotometers, where spectra of gases from ambient temperature to 250C can be studied. GH-7 allows vapor spectrum of many substances which are solid or liquid at room temperature to be studied.

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New Orleans Annual Meeting Highlights

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The Annual Banquet was a resounding success. As a climax to the sumptuously-prepared and smoothly-served dinner, the band struck up "Sweet Georgia Brown." The waiters danced into the ballroom, whistling to the music, and holding the baked Alaska dessert on high (left photo). Past President A. E. MacGee, Toastmaster for the social highlight of the year (center photo), introduced an array of talented singers and dancers who made up the floor show.



ANNUAL BANQUET RESOUNDING SUCCESS

R. T. O'Connor and Mrs. R. C. Stillman look on. One warm and serious moment will be remembered by those who attended this gala affair (right photo). Dr. MacGee introduced A. R. Baldwin, right, who presented the traditional Felix Paquin Key to retiring President W. O. Lundberg in recognition of his year of service as leader of the AOCS. Dr. MacGee, right, and R. T. O'Connor indicate their approval.



AWARDS COMMITTEES TECHNICAL

Wednesday, the final day of the 55th Annual Meeting, was no less busy than those preceding. By far the largest group ever to attend the Annual Awards Luncheon (left photo) was greeted by the 1964-65 AOCS President R. C. Stillman, who introduced his Officers and Governing Board. AOAC President C. V. Marshall spoke to the group, complimenting the Society on what he found to be one of the finest technical meetings he had ever attended. Past President R. W. Bates presented Honorary Membership Awards to J. J. Gannecheau and T. H. Hopper (see May issue, page 7). Bond Award Committee Chairman R. R. Allen announced that Bond Gold Medal winner R. K. Downey was unable to attend the Annual Meeting. His medal will be presented to him at the 38th Fall Meeting in Chicago next October. Honorable Mention Certificates were presented to second and third place papers. Details are to be found elsewhere in this issue. In the absence of Smalley Committee Chairman W. J. Miller, R. T. Doughtie presented the Smalley Award Certificates to those receiving top efficiency



ratings in the various series of the competition. See *JAOCs* 41, 452 (1964) for a complete listing of winners. M. C. Mague, Gold Outing Chairman, was assisted by G. M. Kreutzer in distributing the many fine awards earned by golfers this year.

A full schedule of committee meetings met on Wednesday. Among them was the Membership Committee (upper right photo) whose discussions on foreign membership, membership dues and turn-over in membership were of basic importance to the new Governing Board which convened that afternoon. Left to right: F. H. Smith; R. T. Doughtie; C. W. Hoerr; J. C. Harris, 1964-65 Chairman; R. C. Stillman, 1963-64 Chairman; Raymond Reiser; E. I. Marshack; J. P. Krumbein; and G. C. Cavanagh.

The Wednesday Symposium was entitled "Thermal Oxidation and Polymerization," presenting (lower right photo, left to right) L. A. Wishner; R. G. Krishnamurthy; C. M. Gooding; D. H. Wheeler; H. Kaunitz; M. R. Sahasrabudhe, Chairman; C. D. Evans; and E. G. Perkins.