

SOCIAL

Atlanta
Plans for
You-all!



54th ANNUAL MEETING ATLANTA, GA.

TECHNICAL

Preview
Abstracts
Released!

Atlanta: Romantic Past, Dynamic Future

Many visitors find Atlanta a City of contrasts. Once geared to the economy of the cotton-growing Piedmont, the surrounding red hills are now seldom planted in cotton. Industry has pushed out in an ever-widening circle to occupy ground that produced cotton for many years. Intermingled with new buildings and new construction are markers which are constant reminders of the historic past. The City of "Gone With The Wind," while vitally concerned with the present, never loses sight of the past.

Along with commercial and industrial development, cultural growth is also evident. Thousands of students are enrolled in the several colleges. There is a growing interest in art and the City has been an enthusiastic music center for years.

April is one of the best months for a visit to Atlanta. The AOCS Spring Meeting will afford a fine opportunity to make that visit.

Interesting Features to Balance Program

In addition to the Technical Program discussed on this page, plans for other events at the 54th Spring Meeting in Atlanta, Georgia, April 22-24, 1963, promise interesting and instructive features for those in attendance. General Chairman D. L. Henry announces that social activities will begin with a Mixer at the Biltmore Hotel, Sunday Evening, April 21, at 7:00 P.M. This Mixer and Early Bird Reception will begin the program for the Ladies also, according to Mrs. G. C. Henry, who heads the Ladies Entertainment Committee.

The Opening Session of the formal program will begin at the Biltmore Hotel, Monday, April 22 at 9:30 A.M. After introductions, announcements, and the Presidents' address, the technical sessions will begin at 10:00 A.M.

Ladies Program Announced

On Monday, the Ladies Program will begin with Coffee on the Mezzanine of the Biltmore from 9:00-9:45 A.M. Then at 10:00 A.M. they will go on a bus tour of the beautiful Northside residential area. A short stop will be made at the Art Museum, then some outstanding homes and gardens will be visited. Lunch will follow at 1:00 P.M. at Yohannans, in Atlanta's famous shopping center, Lenox Square. After lunch there will be time for shopping at the smart places in this Center.

On Tuesday, the Ladies Program begins with Coffee at the Biltmore, 9:00-9:30 A.M. and then a Complimentary Continental Breakfast, at Rich's, Atlanta's well known Department Store. In the afternoon a visit will be made to the historic Cyclorama, which depicts in pictorial detail a phase of the Battle of Atlanta. This will be followed by the Annual Dinner Dance which is scheduled at 7:30 P.M. at the Biltmore.

On Wednesday, at 10:00 A.M., Mrs. Henry will lead the group to the Top of the Mart for Coffee and for the wonderful view of the Metropolitan area which this spot affords. A tour of the Merchandise Mart will begin at 11:00 A.M.

In addition to these plans for the Ladies, other events scheduled are: the Past President's Dinner on Monday

(Continued on page 42)

Quality, Versatility Earmark Program

Though a conflict in schedules and deadlines has caused publication of the final Atlanta Technical Program to be delayed until the April issue, a precedent-setting preview of manuscripts to be delivered has been arranged by Program Chairman E. J. Drobka. AOCS Members and other interested parties will be provided with a Program Outline containing titles, authors, dates and times. Inquiries with regard to the final program will be placed on a special mailing list to receive the Outline. AOCS Members need not inquire, as each will receive a copy.

In the following paragraphs, representative abstracts from major areas of interest are offered for the reader's review. Though all abstracts could not be gathered for this issue, those presented leave no doubt as to the quality and versatility of the April 22-24 Atlanta Technical Program.

Source Materials

SEARCH FOR NEW INDUSTRIAL OILS: A PROGRESS REPORT

R. W. Miller and F. R. Earle, Northern Regional Research Laboratory, Peoria, Ill.

Seed of four species of the genus *Cuphea* were found to contain oil consisting mainly of fatty acids of intermediate chain length. Oil from *C. ignea* had over 80% capric acid and was essentially like that originally reported from *C. llavea*. In contrast, oil from two recently obtained species contained about 70% caprylic acid, and oil from a fourth species had 57% lauric and 17% capric acids, substantially identical in composition to coconut oil.

Comprehensive coverage of the genus *Limnanthes* was accomplished by analysis of seven species and four botanical varieties within these species. Oils from all contained at least 95% (mixed acid basis) of acids longer than C₁₅. The proportion of the major component, *cis*-5-eicosenoic acid, ranged from 50-75%, and the C₂₂ acids showed a corresponding inverse variation.

Broad coverage was also obtained of the tribe Calenduleae in the family Compositae. Dimorphecolic acid occurred in six species of *Dimorphotheca*, one of *Castalis*, and five of *Osteospermum* in amounts ranging from 34-75% (glyceride basis). Oils from all other species of the tribe analyzed to date, including 14 species of *Osteospermum*, 2 of *Calendula*, and 2 of *Chrysanthemoides*, contained a conjugated trienoic acid in amounts from 16-60%.

Analytical evidence indicated the presence of a hitherto unknown en-yinic acid, which comprises 60% of the total fatty acids in the seed oil of *Crepis foetida*, a wild plant from Turkey.

Fatty Acids

SOME MINOR FATTY ACIDS IN TALL OIL

H. Albrecht and J. J. McBride, Jr., Development Laboratory, Arizona Chemical Company, Panama City, Fla.

This paper presents an investigation of the minor fatty acids found in the more volatile fractions of tall oil fatty acids from southern pine.

These fatty acids were investigated by gas chromatography in conjunction with hydrogenation and the use of mercuric acetate adducts.

Among the fatty acids identified to date are all the saturated straight chain acids both odd and even from C₆ to C₁₈ and C₁₄, C₁₅, C₁₆ and C₁₇ straight chain monounsaturated acids. There is evidence for the presence of C₁₈ and C₁₉ saturated iso-acids. In addition several unsaturated acids have been found which do not appear to fit into the classifications above.

STUDIES OF THE ROSIN ACID FRACTION IN UNMODIFIED AND MALEIC MODIFIED TALL OIL FATTY ACIDS

R. L. Stephens and R. V. Lawrence, Naval Stores Res. Stn., U.S.D.A. Olustee, Fla.

Of special interest to alkyd producers has been the presence of rosin acids in tall oil fatty acids. This interest has been intensified where specifications on the alkyd vehicle has stated that no rosin be present as demonstrated by the Liebermann-Storch Test. Since the use of this test does not offer conclusive evidence for the presence of rosin acids in tall oil fatty acids, studies were undertaken of the rosin acid fraction of tall oil fatty acids containing 5 percent rosin or less. The object of the studies was to provide a quantitative method to measure the rosin acid content of maleic modified tall oil fatty acids and alkyds.

(Continued on page 17)