

ery was satisfactory, evidently because of difficulties in quantification of the extraction procedure.

Several of the collaborating teams attempted preliminary tests involving an alternate approach to greatly increased sensitivities through the use of a graphite furnace with carbon rods or a carbon tube atomizer. Since these techniques do not involve extraction, they are more precise and rapid. If a sufficient number of collaborators possessing the required graphite furnace with carbon rods or a carbon tube atomizer can be found, a collaborative investigation of this technique will be conducted.

#### **GAS CHROMATOGRAPHY SUBCOMMITTEE**

S.F. Herb, Subcommittee chairman, has resigned, since his new work assignment will not be concerned with fat, oil, or lipid research. Also resigning were J.L. Iverson, chairman of a task group to investigate a procedure involving programmed temperature analysis of fatty acid composition designed to modify or augment AOCS Tentative Method Ce 1-62 Rev. 1970, and B.D. Thomas who had taken over activities to investigate and evaluate gas liquid chromatographic (GLC) methods for determining resin acid in rosin and of turpentine. These resignations will require an almost complete reorganization and restructuring of the Gas Chromatography Subcommittee if the objectives (as outlined in the previous report (5)), all involving collaborative effort, are to be achieved. See Table I. Major activities within this Subcommittee during the coming year will probably be confined to this reorganization and will include the appointment of a new Subcommittee chairman and new collaborative investigation or task group leaders.

#### **NMR SPECTROSCOPY SUBCOMMITTEE**

AOCS has not found a member willing to accept appointment as chairman of the NMR Spectroscopy Subcommittee. This vacancy has handi-

capped the progress of this group, particularly in establishing a collaborative task group to investigate published methods and select a preferred technique for the determination of total oil in oilseeds by wide-line NMR spectroscopy.

A.J. Haighton, Unilever Research, Vlaardingen, The Netherlands, has served as chairman of a task group established to study a method for the determination of solid/fat index by NMR. Despite the handicap of distance, he has made considerable progress with the task group. (See "Report of the Instrumental Techniques Committee 1971-72" for a summary of earlier collaborative tests [5]). This collaborative testing has been international with 2 collaborative teams from the USA, 3 from the UK, and 1 each from Sweden, Holland, Canada, and Switzerland.

In a report of latest collaborative investigation, Haighton stated that the instrumental precision was satisfactory and that the method could readily include procedures permitting the use of wide-line or pulsed-source instruments. A collaborator pointed out one "great advantage of the NMR instrument, namely that measurement can be made on texturized fat without altering the sample's crystalline state." These collaborative studies have demonstrated that the NMR procedures have advantages over the dilatometric techniques (AOCS tentative method Cd 10-57) in precision, scope, and time of analysis. However, the studies are revealing that precision is related to the method of tempering. Since tempering affects the solid/fat index, precision can be obtained among collaborators if, and only if, the method includes a precise, detailed description of a recommended method of tempering. Thus far there has been little, or no, agreement regarding the preferred method. An additional collaborative effort is being organized to test the method when a specific tempering procedure is followed. Collaborators will be asked to follow the method whether or not the tempering proce-

dures agree with that customarily used in their respective laboratories. Hopefully this method will reveal agreement among collaborators and can be recommended to the Uniform Methods Committee for inclusion as a standard or official method of the Society.

R.T. O'CONNOR, chairman  
R.R. ALLEN, subcommittee chairman  
K.M. BROBST, subcommittee chairman  
S.F. HERB, subcommittee chairman

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#### **• JAACS News Feature. . .**

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lis, Minn.; P.L. Maiers, Doty-Wilhoit Labs, Inc., Minneapolis, Minn.; P.L. Maiers, Doty-Wilhoit Labs, Inc., Minneapolis, Minn.; D.C. Melear, Jr., Southwestern Labs, Fort Worth, Texas; J. Ridlehuber, Plains Cooperative Oil Mill, Lubbock, Texas; J.K. Thomas, USDA, ARS, Russell Research Center, Athens, Ga.; and B.D. Deacon, USDA, ARS, AMRI, Beltsville, Md.

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# Call for Papers

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**AOCS 48TH ANNUAL FALL MEETING**  
**DEADLINE: MAY 3, 1974**

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The Technical Program Committee has issued a call for papers to be presented at the AOCS Fall Meeting, September 29-October 2, 1974, in the Sheraton Hotel, Philadelphia, Pennsylvania. Papers on lipids, fats, and oils and all related areas are welcome. Submit three copies of a 100-300 word abstract with title, authors, and speaker to: Gerhard Maerker, Eastern Regional Research Center, U.S. Department of Agriculture, 600 East Mermaid Lane, Philadelphia, Pennsylvania 19118. ■