



**TECHNICON**

**Internal Memo**

Jan 14, 1987

DISTRIBUTION

D A Burns

Next Issue of The Council Newsletter

Attached is an advance copy of material for the February issue of the newsletter from The Council For Near-Infrared Spectroscopy.

Note the involvement of Rob Lodder in the creation of a BB, and Dave Honigs' involvement with an NIR bibliography. TIS will stay up to date by attending the meeting of this group as well as the ASTM subcommittee at the forthcoming Pitts Conf.

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## THE COUNCIL FOR NEAR-INFRARED SPECTROSCOPY ELECTION RESULTS

The Council mail balloting for membership approval of the Constitution and Bylaws and election of the 1987 officers and members of the Governing Board resulted in unanimous ratification of the Constitution and Bylaws. This important step completes the formal organization of the Council which, in turn, allows filing for Federal tax exemption under section 501c(3) of the internal revenue code.

The 1987 officers of the Council elected are:

### **President**

Edward Stark  
KES Analysis  
1 80 West End Avenue  
New York, NY 1 0023  
(212) 787-3858

### **Vice President**

Karl Norris  
Instrumentation Research Laboratory  
USDA BARCW  
Beltsville, MD 20705  
(301) 344-3650

### **Secretary (1987-1989)**

W. Fred McClure  
North Carolina State University  
Box 7625  
Raleigh, NC 27695-7625  
(919) 737-3101

### **Treasurer (1 987-1 988)**

Patrick Cooper  
Pacific Scientific  
2431 Linden Lane  
Silver Spring, MD 20910  
(301) 495-7000

Five Delegates at Large were elected to the 1987 Governing Board:

Donald Burns  
Technicon Industrial Systems  
511 Benedict Avenue  
Tarrytown, NY 10591  
(914) 631-8000

David Funk  
DICKY-john Corp.  
P.O. Box 1 0  
Auburn, IL 62615  
(217) 438-3371

Dave Wetzel  
Dept. of Grain Science and Industry  
Kansas State University  
Manhattan, Kansas 66506  
(913)532-6161

Lois Weyer  
Hercules Incorporated  
Research Center  
Wilmington, DE 19894  
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The Council Newsletter Editor also serves as a nonvoting member of the executive committee. Newsletter items should be sent to the Editor:

Emil Ciurczak  
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(201)386-8855

## **THE COUNCIL FOR NEAR-INFRARED SPECTROSCOPY**

### **ACTIVITIES**

The Council met at FACSS to discuss immediate activities and to form committees to carry out these programs:

#### **Bibliography of NIR References**

All present agreed that a bibliography service was of particular importance for near-infrared spectroscopy because the references are spread over so many journals and NIR involves so many disciplines. These factors also make access to the literature a problem. During the discussion, it was agreed that the Council would organize a bibliography service and, if possible, provide copies of articles at a nominal charge. The bibliography will be made available on floppy disk, formatted for IBM PC/XT/AT and compatibles operating with MS-DOS. A number of existing lists of NIR references were identified which the Council will attempt to get and utilize to insure completeness of the Council bibliography. David Honigs was appointed to chair the bibliography committee with the assistance of Michael Lams, Jim Psotka, and Jerry Workman. Dave Honigs reports that the committee expects to have the bibliography operational in time for demonstration at the Pittsburgh Conference! Those interested in helping should immediately contact Dave Honigs, Department of Chemistry BG-10, University of Washington, Seattle WA 98195, (206) 543-0713.

#### **Library of NIR Spectra**

A library of digitized NIR spectra was the second major need identified at this meeting. Karl Norris will make available his library of over 450 spectra, however he emphasized the need to include industry in the effort to expand the library. All present agreed on the need to establish a standard format for retaining and exchanging spectra. The proposed JCAMP-DX format will be considered and, if necessary, extensions or modifications proposed to meet the needs of the NIR community. Standards for the quality of the spectra must also be established. Karl Norris agreed to chair the spectral library committee. Those interested in helping, either in developing the formats and standards or by providing reference quality spectra, should immediately contact Karl Norris, Instrumentation Research Laboratory, Beltsville Agricultural Research Center West, Beltsville, MD 20705, (301) 344-3650.

#### **Bulletin Board**

A computer bulletin board for the exchange of information among NIR practitioners will be established. The suggestion was made that anyone with a question could "post" it on the bulletin board for anyone to read and answer. The BBS would also serve as a suggestion box for future Council activities. Robert Lodder volunteered to look into setting up a BBS for the Council. Use of the SAS BBS will also be investigated. Anyone interested in helping should immediately contact Robert Lodder, Department of Chemistry, Indiana University, Bloomington, IN 47405, (812) 335-2189.

#### **Pittsburgh Conference Meetings**

The Council Governing Board will meet in Atlantic City Wednesday evening at 7:30 PM. The location will be announced in the Conference Program and at the SAS booth at the exhibit. The meeting is open to everyone interested in - the Council and its activities.

The ASTM Task Group on Near Infrared Spectroscopy will meet Monday evening from 7:00 to 10:00. Those interested are invited to observe and participate in the discussions of standards for NIR.

## **THE COUNCIL FOR NEAR-INFRARED SPECTROSCOPY FUTURE NEAR-INFRARED MEETINGS**

### **The Pittsburgh Conference and Exposition 9-13 March 1987, Atlantic City, NJ**

Two near-infrared sessions are scheduled for the Pittsburgh Conference this spring, the first Monday afternoon, presided by J.G. Grasselli, and the second Thursday afternoon, presided by P.P. Griffiths. In addition, related papers are being presented Monday morning in the Reflectance Infrared Spectroscopy Symposium and the Chemometrics and Special Data Handling Methods session, Wednesday morning in Infrared ((-Quantitative Analysis, Wednesday afternoon in New Spectroscopy Instrumentation, Thursday morning in Biomedical Pharmaceutical I and Characterization of Polymers I.

### **ACS National Meeting, April 5-10 1987 Symposium on Near-Infrared Analysis April 8, 1987, Executive Tower Inn, Denver, CO**

This symposium organized by David Honigs includes an overview by Honigs and papers on oil and fat (R.B. Roy), silicone coating weights (C.M. Paralusz), on-line NIR techniques (L.G. Weyer), Fourier self-deconvolution (P.R. Griffiths), Fourier Transforms in NIR analysis (W.F. McClure), scatter-absorbance interactions (E.W. Stark), "Interactance" (K. Norris), discriminant analysis (H. Mark), spectral searching and matching (P.J. Cooper), and the effects of wavelength search on calibrations (B. Tenge)

Spectroscopy Across the Spectrum: Analytical Applications of Spectroscopy  
The First International Near-Infrared Spectroscopy Conference  
12-17 July 1987, University of East Anglia, Norwich, UK

The International Committee for Near-Infrared Spectroscopy has organized the First International Near-Infrared Spectroscopy Conference in association with the Royal Society of Chemistry Analytical Division meeting Spectroscopy Across the Spectrum: Analytical Applications of Spectroscopy to be held July 12 to July 17 at the University of East Anglia, Norwich, UK. Karl Norris will open Spectroscopy Across the Spectrum Sunday evening with his plenary address. Fred McClure will discuss the use of Fourier transforms and Edward Stark will present a paper on calibration techniques in the morning plenary sessions Tuesday and Wednesday. Invited NIR papers will be presented each afternoon in parallel with the sessions on other technologies. Monday Dr. Karoly Kaffka (Hungary) will chair the session on General NIR Spectroscopy, Tuesday Dr. Vadim Krischenko (USSR) will chair the session on Agriculture and Food Applications, and Wednesday Edward Stark (USA) will chair the session on Industrial and Pharmaceutical Applications. Poster papers will be presented all three days.

The First International Near-Infrared Spectroscopy Conference will continue Thursday July 13 with an all day session of contributed papers. Friday morning, two workshops are planned covering the vital topics of Sample Preparation and Calibration. To receive additional information on these conferences, contact Dr. C. S. Greaser, School of Chemical Sciences, University of East Anglia, NORWICH NR4 7TJ, UK indicating your area of interest (NIR or other) and whether you wish to present a poster paper. Abstracts of contributed papers for the Thursday NIR session should be sent to Mr. A.M.C. Davies, Food Research Institute, Colney Lane, NORWICH NR4 7UA, UK.

## **FUTURE NEAR INFRARED COURSES**

### **Near-Infrared Reflectance Instrumentation**

**February 10-11, 1987 at Holiday Inn Toronto Airport, Ontario, Canada**

Sponsored by the American Association of Cereal Chemists, this short course is designed to help laboratory personnel better understand the principles, application, and interpretation of NIR technology. Faculty: Philip Williams, William Hruschka, Karl Norris, and Edward Stark. Contact: Dotty Ginsburg, AACC, 3340 Pilot Knob Road, St. Paul, MN 55121 (612) 454-7250.

### **Near-IR Analysis: A New Industrial Tool**

**March 7-8, 1987 at the Pittsburgh Conference, Atlantic City, NJ**

Sponsored by the American Chemical Society, this short course is designed for practicing chemists and spectroscopists who are responsible for methods development or routine analyses. Faculty: Donald A. Burns and David L. Wetzel. Contact: Karen McIlvaine, Registrar, ACS Short Courses, ACS, 1155 Sixteenth Street, N.W., Washington, DC (202) 872-4508.

### **Near Infrared Spectroscopy: An Overview**

**March 13, 1987 at the Pittsburgh Conference, Atlantic City, NJ**

Sponsored by the Pittsburgh Conference, this morning Mini-Course will provide a brief overview of NIR, instrumentation, sample presentation techniques, methods development, and illustrative applications for those interested in an introduction to modern near-infrared analysis. Faculty: Edward Stark. Contact: Pittsburgh Conference, Mini-Course Registration, 12 Federal Drive, Suite 322, Pittsburgh, PA 15235, (412) 795-7110.