

# **THIRD INTERNATIONAL DIFFUSE REFLECTANCE CONFERENCE**



**WILSON COLLEGE  
CHAMBERSBURG, PA**

**AUGUST 17-22, 1986**

## **ACKNOWLEDGEMENT**

THE ORGANIZING COMMITTEE OF THE THIRD INTERNATIONAL DIFFUSE REFLECTANCE CONFERENCE GRATEFULLY ACKNOWLEDGES THE GENEROUS CONTRIBUTIONS OF PACIFIC SCIENTIFIC CORPORATION, TECHNICON INSTRUMENTS CORPORATION AND TREBOR INDUSTRIES, INC.

F. E. BARTON, II

W. R. HRUSCHKA

Final Program

Third International Diffuse Reflectance Conference  
Technical Sessions  
Meeting Times and Partial List of Speakers

MONDAY, AUGUST 18, 1986

8:30 a.m. - 12:00 p.m.

Instrumentation - Chairman - Ed Stark, Instrumentation Consultant

Don Webster, Pacific Scientific  
Mark Westerhaus, Infracsoft International  
Lois Weyer, Hercules, Inc.  
Keith Snail, Naval Research Lab.

7:00 p.m. - 10:00 p.m.

Lab Automation - Chairman - P. C. Williams, Canadian Grain Commission

R. Wehling, University of Nebraska  
C. Shoemaker, University of California  
A. King, Perkin Elmer  
L. Carreria, University of Georgia  
P. Calvi, Tecatur Inc.  
J. Antoniszyn, Canadian Grain Commission

TUESDAY, AUGUST 19, 1986

8:30 a.m. - 12:00 p.m.

Physics, Chemistry & Surface Effects of Moisture - Chairman - K. Norris,  
USDA/ARS

Ed Stark, Instrumentation Consultant  
John Shenk, Pennsylvania State University  
William Windham, USDA/ARS  
Ian Murray, University of Aberdeen, Scotland  
Karoly Kaffka, Central Food Research Institute, Hungary

7:00 p.m. - 10:00 p.m.

Data Processing - Chairman - W. F. McClure, North Carolina State Univ.

Steven M. Bucu, Louisiana State University  
A. M. C. Davies, Food Research Institute, Norwich, England  
Ian A. Cowe, Scottish Crop Research Institute, Scotland  
William Hruschka, USDA/ARS

WEDNESDAY, AUGUST 20, 1986

8:30 a.m. - 12:00 p.m.

Industrial Applications - Chairman - Don Webster, Pacific Scientific

Peter Griffiths, University of California  
Lois Weyer, Hercules, Inc.  
Roy Weedon, Technicon  
Pat Cooper, Pacific Scientific  
Robert Taylor, Clemson University  
Francis Dennis, Masonite Corporation  
Richard Whitefield, Upjohn

7:00 p.m. - 10:00 p.m.

Automated Spectral Interpretation - Chairman - L. A. Carreria, Univ. of GA

Jim DeHaseth, University of Georgia  
Mark Westerhaus, Penn State University  
Franklin E. Barton, II, USDA/ARS

THURSDAY, AUGUST 21, 1986

8:30 a.m. - 12:00 p.m.

Agricultural and Food Applications - Chairman - Don Burns, Technicon

Jerome Workman, Technicon  
John Duffee, R. J. Reynolds Tobacco  
George Anderson, Pillsbury Co.  
Patrick Cooper, Pacific Scientific

7:00 p.m. - 10:00 p.m.

Spectroscopy - Chairman - D. S. Himmelsbach, USDA/ARS

Fred McClure, North Carolina State University  
Paul Yang, NRC Canada  
John Ferraro, Loyola University

FRIDAY, AUGUST 22, 1986

8:30 a.m. - 12:00 p.m.

Experimental Hardware - Chairman - D. L. Wetzell, Kansas State University

Peter Griffiths, University of California  
Gabor Kemeny, Kansas State University  
James Callis, Washington State University  
Jonathan Perkins, Washington State University

POSTER SESSIONS WILL BE MANNED AFTER LUNCH AND BEFORE DINNER MONDAY THROUGH THURSDAY  
AFTERNOONS

THIRD INTERNATIONAL DIFFUSE REFLECTANCE CONFERENCE

Poster Session Program

Authors/Title	Date/Time
1. Stephen Delwiche (USDA/ARS) NIR Spectra of Sugars.	Aug 19/1:30-2:00 3:30-4:00
2. William Hruschka (USDA/ARS) Rare Earth Wavelength Standards for the NIR.	Aug 19/1:30-2:00 3:30-4:00
3. Karl Norris (USDA/ARS) A Method for Obtaining NIR Spectra Without Water Absorbtion Bands.	Aug 19/1:30-2:00 3:30-4:00
4. John Madasci (USDA/ARS) Frederick Parrish Peter Schott Henry Marshall Near Infrared Analysis of Constituents in Barley Grain	Aug 19/1:30-2:00 3:30-4:00
5. Ian Cowe (Scottish Crop Res. Inst.) The Use of Principal Components for Measuring Noise in Spectrophotometers.	Aug 20/1:30-2:00 3:30-4:00
6. Karoly Kaffka Determining Amino Acids in Lupine by Near Infrared Reflectance Spectroscopy.	Aug 20/1:30-2:00 3:30-4:00
7. Sherman Faught (USDA/ARS) Understanding a Sample Property to NIRA Relationship, Cellulose to Cotton Fiber Maturity.	Aug 20/1:30-2:00 3:30-4:00
8. Nicholas Hill (U. Ga.) Detection of the Endophyte in Tall Fescue Seed Using NIRS.	Aug 20/1:30-2:00 3:30-4:00
9. N. J. Harrick (Harrick Scientific) Diffuse Reflectance and other IR-VIS-UV Spectroscopy Accessories.	Aug 20/1:30-2:00 3:30-4:00