

Rocky Mountain Conference on Magnetic Resonance

Volume 5 *5th Annual Rocky Mountain Spectroscopy Conference*

Article 1

8-6-1962

5th Annual Rocky Mountain Spectroscopy Conference Program

Follow this and additional works at: <https://digitalcommons.du.edu/rockychem>

 Part of the [Chemistry Commons](#), [Materials Science and Engineering Commons](#), and the [Physics Commons](#)

Recommended Citation

(1962) "5th Annual Rocky Mountain Spectroscopy Conference Program," *Rocky Mountain Conference on Magnetic Resonance*: Vol. 5, Article 1.

DOI

<https://doi.org/10.56902/RMCMR.1962.5.1>

Available at: <https://digitalcommons.du.edu/rockychem/vol5/iss1/1>



This work is licensed under a [Creative Commons Attribution 4.0 International License](#).

This Conference Proceeding is brought to you for free and open access by Digital Commons @ DU. It has been accepted for inclusion in Rocky Mountain Conference on Magnetic Resonance by an authorized editor of Digital Commons @ DU. For more information, please contact jennifer.cox@du.edu, dig-commons@du.edu.

5th Annual Rocky Mountain Spectroscopy Conference Program

Abstract

Program from the 5th annual meeting of the Rocky Mountain Spectroscopy Conference, sponsored by the Rocky Mountain Section of the Society for Applied Spectroscopy. Held in Denver, Colorado, August 6-7, 1962.

Copyright Statement / License for Reuse



This work is licensed under a [Creative Commons Attribution 4.0 International License](https://creativecommons.org/licenses/by/4.0/).

Publication Statement

Copyright is held by the Rocky Mountain Conference on Magnetic Resonance. User is responsible for all copyright compliance.



PROGRAM

Fifth Annual

Rocky Mountain

Spectroscopy Conference

Sponsored by

Rocky Mountain Section

Society For Applied Spectroscopy

THE OLIN HOTEL

Denver, Colorado

August 6 - 7, 1962

GENERAL INFORMATION

The Olin Hotel

The Olin Hotel is located at 1420 Logan Street, Denver 3 Colorado, within easy walking distance of Denver's famous Civic Center and the downtown business district. All of the hotel's rooms have been remodeled, and present handsome accommodations for the nominal rates of \$6.50 single and \$10.00 double rooms plus tax. The hotel features a new swimming pool and convenient Conference facilities.

Registration

Registration will be held on the morning of August 6, starting at 8:00 A.M., and continuously throughout the Conference. The fees are as follows:

Technical Sessions Only.....	\$6.00
Banquet.....	4.00

Total.....\$10.00

Registration materials will be available at the Conference Registration Desk at the Olin Hotel.

Banquet and Social Hour

Monday evening, August 6, there will be a social hour from 6:00 to 7:00 P.M. and a banquet at 7:00 P.M. Featured speaker at the Banquet will be Dr. Wallace R. Broce, Former Scientific Advisor to the Secretary of State, Former Associate Director of the National Bureau of Standards, and President of the Society of the Sigma Xi, one of America's outstanding scientists. His subject will be "Colorful Americans", a description of the use of natural coloring materials and dyes employed by the American Indians.

Wives will be welcome at the banquet, and they should enjoy Dr. Brode's presentation. Banquet tickets for wives may be purchased at the Registration desk until 3:00 P.M. Monday.. August 6.

About the Conference

An air of informality prevails at this Conference, and the Conferees have ample opportunity for mixing with one another and discussing mutual problems, vacation plans, etc.

All of the panel discussions will be tape recorded, in the hope that a possible publication might result after the tapes have been edited and approved by each of the participants.

Three instrument manufacturers will exhibit some of their equipment in rooms adjacent to the Conference area.

ROCKY MOUNTAIN SECTION of the SOCIETY FOR APPLIED SPECTROSCOPY

Officers 1962

President:

M. W. Skougstad
U. S. Geological Survey, Denver, Colorado

President Elect:

M. L. Salmon
Fluo-X-Spec Analytical Lab., Denver, Colo.

Secretary:

Nancy M. Conklin
U. S. Geological Survey, Denver, Colo.

Treasurer:

L. Kahn
Shell Chemical Company, Denver, Colo.

1962 Conference Committee

Francis S. Bonomo, Denver Research Institute,
Denver, Colo.

Fred N. Ward, U. S. Geological Survey, Denver, Colorado

In addition to appreciation for the efforts by the officers of the Society, the Conference Committee wishes to express its thanks to Martha Daiss of the Denver Convention and Visitors Bureau, William Singer of the Olin Hotel, Dorothy Husbands and Mary Lou Higgins of the Denver Research Institute for their assistance in preparation for the Conference.

The Conference Committee also wishes to thank A. Tennyson Myers of the U. S. Geological Survey for his untiring assistance.

ROCKY MOUNTAIN SPECTROSCOPY CONFERENCE

August 6—Monday Morning

PAPERS

Presiding—Richard L. Beno,
Dow Chemical Company, Rocky Flats, Colo.

Time	Title and Speakers-Authors
9:00 AM	Introductory Address, Marvin Skougstad, President
9:05 AM	"Elemental Analysis by Neutron and Photon Acti- vation," L. M. Cartwright, P. Gray and D. J. Veal, Phillips Petroleum Co.
9:25 AM	"Electron Spin Resonance Study of Radiation Dam- age in Magnesium Hypophosphite Hexahydrate," James Perry and Melvin W. Hanna, University of Colorado
9:45 AM	"Instrumentation and Some Typical Applications in the Grazing Incidence Ultraviolet." A. J. Mitteldorf, Spex Industries
10:00 AM	Coffee
10:25 AM	"Advances in Far Ultraviolet Spectroscopy," Wilbur Kaye, Beckman Instruments, Inc.

10:45-11:55 AM Panel Discussion on "Applications of the
Vacuum Ultraviolet Region"

Speakers

Chairman—Dr. Wilbur Kaye, Beckman Instruments, Inc.

Panel Members—Dr. Paul M. McPherson,
McPherson Instrument Corporation
Dr. Edward P. Todd, Director
Department of Physics
Space Physics Laboratory
University of Colorado
Dr. A. J. Mitteldorf
Spex Industries
Robert Alvord
Jarrell-Ash Company

12:00-1:30 PM Lunch

August 6—Monday Afternoon

PAPERS

Presiding—Joseph Haffty,
U. S. Geological Survey, Denver, Colorado

Time	Title and Speakers-Authors
1:30 PM	"A Nuclear Magnetic Resonance Study of Hydrogen Bonds to Nitrogen," Peter J. Berkeley and Melvin W. Hanna, University of Colorado
1:50 PM	"The Use of Various Ion Sources in a Double Focusing Mass Spectrograph for Organic Solids Analysis," William Baun, Materials Central, Wright-Patterson AFB, Neil Hodgson, Monsanto Research Corporation, Michel Desjardins, University of Cincinnati
2:10 PM	"A Comparison of the Infrared Spectra of Benzo [b] Thiophenes and Benzenes," Francis R. McDonald and Glenn L. Cook, United States Department of the Interior, Bureau of Mines
2:30 PM	Coffee
2:50 PM	"Infrared Analysis of Normal and Pathologic Blood Serum by Statistical Methods Using a Small Computer," D. S. Erley, Dow Chemical Company
3:10-4:30 PM	Panel Discussion on "Techniques of Biological and Biochemical Analysis"

Speakers

Chairman-- Dr. Leopold May, Editor-in-Chief,
APPLIED SPECTROSCOPY
Associate Professor of Chemistry,
The Catholic University of America

Panel Members—Dr. D. S. Erley,
Dow Chemical Company
Dr. Oscar K. Reiss
Webb-Waring Institute and
Department of Biochemistry
University of Colorado Medical School
Father William T. Miller, S.J.
Regis College

August 6—Monday Evening

6:00 PM Social Hour

7:00 PM Banquet—Speaker: Dr. Wallace R. Brode
Former Scientific Advisor to
Secretary of State
Title—"Colorful Americans"

August 7—Tuesday Morning

PAPERS

Presiding—Blair Roberts
Bear Creek Mining Co., Denver, Colorado

Time Title and Speakers-Authors

8:50 AM "Mineralogical Analysis of Rocks by Reflected Infra-
red Radiation," R. J. P. Lyon, Stanford Research
Institute

9:10 AM "Infrared Investigation of the Olivine Group Miner-
als," David A. Duke, University of Utah and James
D. Stephens, Kennecott Copper Corporation

9:30 AM "Chemical Composition of Old-Time Smelter Slags
from Sites in Colorado," A. R. Ronzio, Radiological
Research Institute, Inc., and M. L. Salmon, Fluo-X-
Spec Laboratories

9:45 AM "Correlation of Chemical Composition and Color of
Turquoise Specimens," A. R. Ronzio, Radiological
Research Institute, Inc., and M. L. Salmon, Fluo-X
Spec Laboratories

10:00 AM Coffee

10:25-11:55 AM Panel Discussion on "Techniques of Mineral-
ogical Analysis"

Speakers

Chairman—Dr. W. M. Tuddenham, Kennecott Copper
Corporation

Panel Members—Dr. M. E. Wadsworth,
University of Utah
Dr. R. J. P. Lyon,
Stanford Research Institute
Dr. Russell M. Honea,
University of Colorado
Merlyn L. Salmon,
Fluo-X Spec Laboratories

12:00-1:30 PM Lunch

August 7—Tuesday Afternoon

PAPERS

Presiding—David Conway
Ohio Oil Company, Littleton, Colo.

Time	Title and Speakers-Authors
1:30 PM	"Research and Development Using Photoelectric Spectrometric Equipment," John A. Norris, Oak Ridge National Laboratory, U. S. Atomic Energy Commission
1:50 PM	"A Direct Reading Spectrometer of Modern Design" Harold F. Emery, Research & Control Instruments, Inc.
2:10 PM	"Some Factors Involved in Flame Photometric Analysis for Trace Elements in Biological Materials," W. G. Schrenk, Kansas State University
2:30 PM	"The Determination of Trace Elements Using the Vacuum Cup Solution Technique," Carl J. Leistner, United Carbon Products Company
2:50 PM	Movie (15 Min.)—"The Use of Atmospheres in Emission Spectroscopy," Spex Industries, Inc.
3:05 PM	Coffee

Speakers

3:30-4:45 PM Panel Discussion on "Methods of Trace Analysis"

Chairman—Dr. William G. Schrenk, Kansas State University

Panel Members—Fred Ward,

U. S. Geological Survey

Dr. Harold Walton,

Department of Chemistry

University of Colorado

Dr. Alvin Schalge,

The Ohio Oil Company

The following corporations will exhibit some of their instruments in rooms adjacent to the Conference area:

Applied Physics Corporation.....Room 206

Beckman Instruments Inc.—

Van Waters & Rogers Inc.....Room 219

The Perkin-Elmer Corporation.....Room 312