

Rocky Mountain Conference on Magnetic Resonance


Volume 6 *6th Annual Rocky Mountain Spectroscopy Conference*

Article 1

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6th Annual Rocky Mountain Spectroscopy Conference Program

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6th Annual Rocky Mountain Spectroscopy Conference Program

Abstract

Program from the 6th 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 12-13, 1963.

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PROGRAM

Sixth Annual

Rocky Mountain
Spectroscopy Conference

Sponsored by

The Rocky Mountain Section

Society For Applied Spectroscopy

THE ALBANY HOTEL

Denver, Colorado

August 12 -13,1963

GENERAL INFORMATION

The Albany Hotel:

The Albany is located at 17th and Stout Street, Denver 2, Colo., within the downtown business district. All rooms including the conference and banquet facilities are air-conditioned. Single accommodations range in price from \$6.50 to \$9.50, and doubles, \$9.50 to \$13.00, plus tax. Arrangements should be made directly with The Albany or with other nearby hotels.

Registration:

Registration will be held on the morning of August 12, starting at 8 a.m., and continuously throughout the conference. The fees are as follows-

Technical sessions	only.....\$6.00
Banquet.....	5.00

Total	\$11.00
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Registration materials will be available at the Conference Registration Desk at The Albany.

Banquet and social hour:

On Monday evening, August 12, there will be a social hour from 6 to 7 p.m., and a banquet at 7 p.m. The featured speaker at the banquet will be Mr. Robert E. Michaelis of the Spectrographs Standard Samples Division of the Spectrochemistry Section, Analytical and Inorganic Chemistry Division of the National Bureau of Standards, Washington, D.C. Bob will be speaking on The new \$104 million NBS research facility, now under construction at Gaithersburg, Maryland. His talk will be of a non-technical nature and wives and friends will be welcome at the banquet. Banquet tickets may be purchased at the registration desk until 12:00 noon, Monday, August 12.

About the conference:

An air of informality prevails at this conference, and the conferees will have ample opportunity for mixing with one another discussing mutual problems, vacations, etc. A number of 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, 1963

President:

Merlyn L. Salmon,
Fluo-X-Spec Analytical Laboratories, Denver,
Colo

President Elect:

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

Secretary:

Francis S. DeRose,
Coors Porcelain Company, Golden, Colo.

Treasurer,

Blair Roberts,
Bear Creek Mining Company, Denver, Colo.

1963 Conference Committee

Fred Ward,
U.S. Geological Survey, Denver, Colo.

Blair Roberts,
Bear Creek Mining Company, Denver, Colo.

In addition to appreciation for the efforts of the officers of the society, the Conference Committee wishes to express its thanks to Mr. Harry Litzenberger, Denver Convention Visitors Bureau, and Mr. Henry Schmidt of the Albany Hotel.

**ROCKY MOUNTAIN SPECTROSCOPY
CONFERENCE**

August 12—Monday Morning

Papers

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

Time	Title and Speakers-Authors
9:15 AM	Introduction—M. L. Salmon, President
9:20 AM	"Infrared Spectrographic Analysis of Ion Exchange Resins," D. M. Hausen, Union Carbide Nuclear Company.
9:40 AM	"An Infrared Study of the C=N Stretching Vibration in Azine Derivatives of Aldehydes and Ketones," L. D. Frederickson, Jr., Spectran Laboratories, Inc.
10:00 AM	"The P:S P-S-C Stretching Frequencies in Organophosphates," Lloyd Kahn and Cooper Wayman, U.S. Geological Survey.
10:20 AM	Coffee Recess.
10:50 AM	"Mineral Analysis by Thermally Emitted Infrared Radiation," R. J. P. Lyon and Eugene A. Burn, Stanford Research Institute.
11:15 AM	"Infrared Absorption Spectra Applied to the Determination of Mineral Composition and Structure," Hans H. Adler, U.S. Atomic Energy Commission
11:40-1:30 PM	Lunch

August 12—Monday Afternoon

Papers

Presiding—O. H. Willoughby, Jr.
Dow Chemical Company, Denver, Colo.

Time	Title and Speakers-Authors
1:30 PM	"Dual Grinding and X-ray Analysis of Rocks to Obtain True Composition," A. Volborth, University of Nevada.
1:50 PM	"Detection Limits in Analytical Atomic Absorption Spectroscopy," David C. Manning, The Perkin-Elmer Corporation.
2:20 PM	"Mechanisms of the Interactions of Alkali and Alkaline Earth Elements in Flame Photometry," Russell W. Johnson and W. G. Schrenk, Kansas State University.
2:40 PM	Coffee Recess
3:10-4:30 PM	Panel Discussion on "Techniques of Geologic and Mineralogical Analysis." Panel Members— Dr. Marvin Skougstad, U. S. Geological Survey A. Chodas, California Institute of Technology Dr. A. Volborth, University of Nevada A. T. Myers, U. S. Geological Survey

August 12—Monday Evening

6:00 PM	Social Hour
7:00 PM	Banquet- Speaker: Mr. Robert E. Michaelis, National Bureau of Standards Title: "The New NBS Research Facility "

August 13—Tuesday Morning

Papers

Presiding—G. A. Schreiber
Dow Chemical Company, Denver, Colo.

Time	Title and Speakers-Authors
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9:00 AM	' Biotite and Deformation Effects in X-ray Spectrographs Analysis of Pressed Rock Powders," A. Volborth, University of Nevada.
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9:25 AM	The Laser Microprobe," Frederick Brech, Jarrell-Ash Company.
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10:15 AM	Coffee Recess
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10:35 AM-12:00 Noon	Panel Discussion on "Applications of Gas Chromatography."
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Panel Members -

Dr. Paul E. Urone, Chairman,
University of Colorado

Dr. Keene P. Dimick,
Wilkens Instrument & Research,
Inc.

Dr. Peter Taussig,
The Marathon Oil Company

Dr. Glenn Organ
The Marathon Oil Company

Miss Jerry Ann Tillotson
Fitzsimons General Hospital

12:00-1:30 PM	Lunch
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August 13—Tuesday Afternoon

Papers

Presiding—Bill McCarty,
Marathon Oil Co., Littleton, Colo.

Time	Title and Speakers-Authors
1:30 PM	"Design Features of a Maximum Versatility Optical Spectrometer," Graham Wright, Research and Control Instruments, Inc.
1:50 PM	"Fluorescence Spectroscopy," Wilbur Kaye, The Beckman Company.
2:10 PM	"Application of Direct Reading Spectrometry for Determination of Trace Elements in Silicate Rocks," A. T. Myers, R. G. Havens, and N. M. Conklin, U.S. Geological Survey.
2:30 PM	Coffee Recess
3:00 PM	"The Use of the Vacuum-Cup Electrode in the Spectrographs Analysis of Calcium and Magnesium in Aqueous Solutions," Irwin D. Smith, Army Msl. Test and Eval. Dir., White Sands Missile Range, N. M.
3:20-4:45 PM	Symposium on "Where Next? Spectroscopy 1964-1974." Panel Members— Dr. John A. Norris, Chairman, Oak Ridge National Laboratory, U. S. Atomic Energy Commission A. T. Myers, U. S. Geological Survey Joseph Haffty, U. S. Geological Survey Dr. Alvin Schalge, The Marathon Oil Company