

# Rocky Mountain Conference on Magnetic Resonance

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Volume 1 *Rocky Mountain Spectroscopy Conference*


Article 1

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## Rocky Mountain Spectroscopy Conference

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## Rocky Mountain Spectroscopy Conference

### Abstract

Program from the Rocky Mountain Spectroscopy Conference, sponsored by the Rocky Mountain Spectroscopy Society. Held in Denver, Colorado, August 11-12, 1958.

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# ROCKY MOUNTAIN SPECTROSCOPY CONFERENCE

1958

11-12 August  
Farmers Union Building  
1575 Sherman Street  
Denver, Colorado



Sponsored by  
The Rocky Mountain  
Spectroscopy Society

REGISTRATION INFORMATION:

Registration will be held at the auditorium of the Farmers Union Building, 1575 Sherman Street.

FEES:	
All Sessions	\$10.50
(Includes technical sessions, luncheon both days, banquet, and all social functions)	
Technical Sessions Only	\$3.00
Monday Luncheon Only	\$1.75
Monday Banquet Only	\$4.50
Tuesday Luncheon Only	\$1.75

MONDAY, 11 AUGUST 1958

9:00 A.M. Registration

9:55

Welcome by the President of R.M.S.S., William Gullikson, Ohio Oil Company, Littleton, Colorado

Chairman: Billy Bickley, Dow Chemical Company, Denver, Colorado

10:00

Some Preliminary Experiments in the Applications of Time Resolved Spectroscopy. Frederick Brech, Jarrell-Ash Company, Newtonville, Mass.

10:35

The Sustained Arc and Its Application. E. W. Rebol and D. R. Moore, National Spectrographs Laboratories, Miami, Fla., and Cleveland, Ohio

1 1:10

A Direct Reading Attachment for Twenty Inch Camera Three Meter Concave Grating Spectrograph. L. O. Eikrem and E. J. Forgeron, Baird-Atomic Inc., Cambridge, Mass.

11:45 Luncheon

Chairman: Edward Vejvoda, Dow Chemical  
Company, Denver, Colorado

1:30 P.M.

Qualitative Spectrochemical Analysis. Werner  
Hartmann, Bell Telephone Laboratories  
Inc., Murray Hill, New Jersey

1:55

The Direct Reading Spectrograph and Its  
Use at the Pueblo Plant, the Colorado Fuel  
and Iron Corporation. William Fernald and  
M. E. Mador, Colorado Fuel and Iron Corp-  
oration, Pueblo, Colorado

2:20

Sampling for and Calibration of the Direct  
Reading Spectrograph for Routine Control at  
the Pueblo Plant, Colorado Fuel and Iron  
Corporation, E. N. Kissinger, Colorado Fuel  
and Iron Corporation, Pueblo, Colorado

2:45 Recess

Chairman: Robert Reinke, Dow Chemical  
Company, Denver, Colorado

3:15

Spectrochemical Analysis with the D.C. Arc.  
A. T. Myers, U. S. Geological Survey, Den-  
ver, Colorado

3:45

Spectroanalysis in the Forensic Laboratory.  
J. F. Moomaw, Denver Police Department  
Laboratory, Denver, Colorado

4:10

Analysis of Plain Carbon and Low Alloy  
Steel with the ARL Quantovac. G. Anderman  
and J. L. Odom, Applied Research Labor-  
atories, Glendale, California

6:00 Social Hour

7:00 Banquet

Guest Speaker: Dr. E. U. Condon  
Head, Physics Department  
Washington University

"Remarks on the History of  
Quantum Mechanics"

TUESDAY, 12 AUGUST 1958

Chairman: Paul Barnett, U. S. Geological Survey, Denver, Colorado

9:00 A.M.

Photoelectric Comparator for Relative Distance and Intensity Measurements of Spectrograms. D. W. Steinhaus, Los Alamos Scientific Laboratory, Los Alamos, New Mexico

9:25

Vaporization of Electrode Material in the Spectroscopic D.C. Arc Technique. W. A. Garee and J. Weinard, National Carbon Company, Fostoria, Ohio

10:00 Recess

Chairwoman: Pauline Dunton, Ohio Oil Company, Littleton, Colorado

10:15

Spectrographic Analytical Considerations and Relation of Graphite Electrodes. Dik Sarnowski and W. E. Allsopp, United Carbon Products, Bay City, Michigan

10:50

A "Vacuum" Cup Electrode for the Spectrochemical Analysis of Solutions. T. H. Zink, Armour Research Foundation, Chicago, Ill.

11:15

NMR as a Tool for Research. C. R. Bruce, Ohio Oil Company, Littleton, Colorado

11:45 Luncheon

Chairman: Fred Ward, U. S. Geological Survey, Denver, Colorado

1:30 P.M.

Mass Spectrometry of a Nitrogen-Compound Concentrate from Shale-Oil Gas-Oil. G. L. Cook, H. B. Jensen and G. U. Dinneen, U. S. Bureau of Mines Petroleum & Oil-Shale Experiment Station, Laramie, Wyo.

1:55

Infrared Spectra of Oil Shale. William Gulikson, Ohio Oil Co., Littleton, Colorado

continued

TUESDAY, 12 AUGUST 1958    continued

2:20 P.M.

Infrared Spectra of Some Fluorine-Containing Polymers. L. D. Frederickson, Jr., Spectran Laboratories, Denver, Colorado

2:45

The Combined Use of Gas Chromotography and Infrared Spectrophotometry in Quantitative Analysis. J. E. Stewart, T. Johns, R. O. Brace, and W. F. Ulrich, Beckman Instruments, Inc., Fullerton, California

3:10    Recess

Chairman: Gerhardt Podolski, Braun-Knecht-Heimann, Denver, Colorado

3:40

Open Discussion Period (Meeting summary and evaluation, short technical notes, unscheduled papers, or other discussion of interest to the majority of the group. These should be scheduled at the registration desk by 11:00 A.M. Tuesday, 12 August 1958).

R.M.S.S. Officers 1957-8

President: William Gullikson  
Vice President: A. T. Myers  
Secretary: L. D. Frederickson, Jr.  
Treasurer: Merlyn L. Salmon

1958 Conference Committee

Paul Barnett, U. S. Geological Survey  
Billy Bickley, Dow Chemical Company  
Andrew J. Frank, Denver Research Inst.  
Joe Moomaw, Denver Police Department  
Merlyn Salmon, Fluo-X-Spec Laboratory  
Dick Thompson, Braun-Knecht-Heimann  
Fred Ward, U. S. Geological Survey

Refreshments served during the recess periods, registration and the social hour were available through the courtesy of the following industrial sponsors:

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In addition to appreciation for efforts by the officers and members of R.M.S.S. and the financial cooperation noted above, the conference committee wishes to express its thanks to William Thacker and Martha Daiss of the Denver Convention and Visitors Bureau and Kathleen Kelly of Ohio Oil Company for their assistance in preparation for the conference.