August 1962

5th Annual Rocky Mountain Spectroscopy Conference Program

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5th Annual Rocky Mountain Spectroscopy Conference Program

Abstract

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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

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
9:25 AM "Electron Spin Resonance Study of Radiation Damage 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

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<tr>
<th>Time</th>
<th>Title and Speakers-Authors</th>
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<tbody>
<tr>
<td>1:30 PM</td>
<td>&quot;A Nuclear Magnetic Resonance Study of Hydrogen Bonds to Nitrogen,&quot; Peter J. Berkeley and Melvin W. Hanna, University of Colorado</td>
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<tr>
<td>1:50 PM</td>
<td>&quot;The Use of Various Ion Sources in a Double Focusing Mass Spectrograph for Organic Solids Analysis,&quot; William Baun, Materials Central, Wright-Patterson AFB, Neil Hodgson, Monsanto Research Corporation, Michel Desjardins, University of Cincinnati</td>
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<tr>
<td>2:50 PM</td>
<td>&quot;Infrared Analysis of Normal and Pathologic Blood Serum by Statistical Methods Using a Small Computer,&quot; D. S. Erley, Dow Chemical Company</td>
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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 Infrared Radiation," R. J. P. Lyon, Stanford Research Institute

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


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 Mineralogical 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.

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