August 1963

6th Annual Rocky Mountain Spectroscopy Conference Program

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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:

<table>
<thead>
<tr>
<th>Service</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical sessions</td>
<td>$6.00</td>
</tr>
<tr>
<td>Banquet</td>
<td>$5.00</td>
</tr>
</tbody>
</table>

Total $11.00

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,

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.

<table>
<thead>
<tr>
<th>Time</th>
<th>Title and Speakers-Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:15 AM</td>
<td>Introduction—M. L. Salmon, President</td>
</tr>
<tr>
<td>10:20 AM</td>
<td>Coffee Recess.</td>
</tr>
<tr>
<td>11:40-1:30 PM</td>
<td>Lunch</td>
</tr>
</tbody>
</table>
**August 12—Monday Afternoon**

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

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1:30 PM</td>
<td>&quot;Dual Grinding and X-ray Analysis of Rocks to Obtain True Composition,&quot; A. Volborth, University of Nevada.</td>
</tr>
<tr>
<td>2:40 PM</td>
<td>Coffee Recess</td>
</tr>
</tbody>
</table>
| 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**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00 PM</td>
<td>Social Hour</td>
</tr>
<tr>
<td>7:00 PM</td>
<td>Banquet—Speaker: Mr. Robert E. Michaelis, National Bureau of Standards</td>
</tr>
<tr>
<td></td>
<td>Title: &quot;The New NBS Research Facility&quot;</td>
</tr>
</tbody>
</table>
August 13—Tuesday Morning

Papers

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

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>9:00 AM</td>
<td>&quot;Biotite and Deformation Effects in X-ray Spectrographs Analysis of Pressed Rock Powders,&quot; A. Volborth, University of Nevada.</td>
</tr>
<tr>
<td>10:15 AM</td>
<td>Coffee Recess</td>
</tr>
<tr>
<td>10:35 AM-12:00 Noon</td>
<td>Panel Discussion on &quot;Applications of Gas Chromatography.&quot;</td>
</tr>
<tr>
<td></td>
<td>Panel Members:</td>
</tr>
<tr>
<td></td>
<td>Dr. Paul E. Urone, Chairman, University of Colorado</td>
</tr>
<tr>
<td></td>
<td>Dr. Keene P. Dimick, Wilkens Instrument &amp; Research, Inc.</td>
</tr>
<tr>
<td></td>
<td>Dr. Peter Taussig, The Marathon Oil Company</td>
</tr>
<tr>
<td></td>
<td>Dr. Glenn Organ, The Marathon Oil Company</td>
</tr>
<tr>
<td></td>
<td>Miss Jerry Ann Tillotson, Fitzsimons General Hospital</td>
</tr>
<tr>
<td>12:00-1:30 PM</td>
<td>Lunch</td>
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August 13—Tuesday Afternoon

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

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<td>&quot;Design Features of a Maximum Versatility Optical Spectrometer,&quot; Graham Wright, Research and Control Instruments, Inc.</td>
</tr>
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<td>2:30 PM</td>
<td>Coffee Recess</td>
</tr>
<tr>
<td>3:00 PM</td>
<td>&quot;The Use of the Vacuum-Cup Electrode in the Spectrographs Analysis of Calcium and Magnesium in Aqueous Solutions,&quot; Irwin D. Smith, Army Msl. Test and Eval. Dir., White Sands Missile Range, N. M.</td>
</tr>
</tbody>
</table>
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 |