



THE AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS  
P. O. Box 979  
Tulsa, Oklahoma 74101

Pecora Symp. file  
IC 9-79

September 9, 1977

TO: Coordinating Committee  
FROM: Sherry Linville  
SUBJECT: Pecora III Symposium - Program Outline

(distributed  
9-13-77)

Action	METZ	✓
Info Copies		
Watkins		✓
Landis		
Metz		
Reeves		
AO		
DPB		
CSB		
SDB		
AAB		✓
Comm. Aff.		
Cost. Rel.		
Taranik		✓

OC 9-9  
9/12/77  
Graham

The final program for the Pecora III Symposium is now being compiled and enclosed is a rough copy of events and papers scheduled for the three-day meeting. As you can see, the presiders for all sessions are indicated and I need to be advised the person(s) presiding over any technical sessions, if other than Jon Davidson or Michel T. Halbouty, by the end of the month. Also, copy of background information on the EROS Data Center and/or U. S. Geological Survey should be sent to me by the end of the month in order to get this into the program.

Fifteen commercial booths have been contracted as of this date. Sufficient space remains for a display by the U. S. Geological Survey to complete the exhibits area.

Advance registration has picked up greatly over the last couple of weeks and we do expect a good turnout for this meeting. Look forward to seeing you in Sioux Falls.

*SMY*  
*HOW ABOUT*  
*HAVING FISCHER*  
*AT PRESIDENTIAL SESSION?*  
*ALSO A TARANIK*  
*AND OTHERS.*  
*SL*  
*9/12/77*

SL/mn  
Enclosure  
Copies to:

- M. T. Halbouty
- J. W. Davidson
- W. A. Fischer
- J. V. Taranik
- A. Watkins ✓

CURRENT TECHNOLOGY

MONDAY MORNING  
9:00 Rushmore Hall

Presiding: Michel T. Halbouty, General Chairman, Independent Producer  
and Operator, Houston, Texas

Welcoming Address: The Honorable Richard F. Kneip, Governor of the State  
of South Dakota

Opening Remarks: The Honorable V. E. McKelvey, Director, U. S. Geological  
Survey, Reston, VA

CHARACTERISTICS OF LANDSAT SYSTEM FOR MINERAL AND PETROLEUM  
EXPLORATION - ~~James V. Taranik~~, EROS Data Center, Sioux Falls, S. D.  
STAFF OF THE

MONDAY LUNCHEON  
Howard Johnson's Motor Lodge

Toastmaster: Al Schock

Guest Speaker  
The Honorable Harrison "Jack" Schmitt  
U. S. Senator from New Mexico

MONDAY AFTERNOON  
2:00 Rushmore Hall

Presiding: ~~James V. Taranik~~, EROS Data Center, Sioux Falls, S. D.  
DON LAVER

PRINCIPLES OF COMPUTER PROCESSING OF LANDSAT DATA FOR MINERAL  
AND PETROLEUM EXPLORATION - ~~James V. Taranik~~, EROS Data Center,  
Sioux Falls, S. D. STAFF OF THE

AVAILABILITY OF LANDSAT DATA FOR MINERAL AND PETROLEUM EXPLORATIO  
STAFF OF THE EROS DATA CENTER, SIOUX FALLS, S. D.

~~STATUS OF LANDSAT DATA TO ACQUISITION AND AVAILABILITY OF LANDSAT  
DATA FOR MINERAL AND PETROLEUM EXPLORATION~~

MONDAY EVENING

OPENING RECEPTION  
Rushmore Hall  
6:30 - 8:00

## LANDSAT TECHNOLOGY

### TUESDAY MORNING

8:30 Rushmore Hall

Presiding: Jon W. Davidson, The Superior Oil Co., Houston, Texas

DETECTION OF PETROLEUM-RELATED SOIL ANOMALIES FROM LANDSAT -  
Ronald W. Marrs and Barney Kaminsky, University of Wyoming, Laramie, Wyoming

INTEGRATION OF LANDSAT AND GEOPHYSICAL DATA FOR PETROLEUM  
EXPLORATION IN NORTHEAST ARIZONA - S. I. Gutman and G. A. Heckmann,  
Santa Fe Engineering Services Co., Orange, California

LANDSAT-USEFUL PETROLEUM EXPLORATION TOOL IN IDAHO-WYOMING  
THRUST BELT - J. F. Conrad, Don Erickson and W. V. Trollinger, Trollinger  
Geological Associates, Inc., Denver, Colorado

SATELLITE-REMOTE SENSOR EXPLORATION OF WEST TEXAS TEST SITE -  
H. R. Hopkins, R. L. Kite and J. O. Bennett, Exxon Production Research Co.,  
Houston, Texas

MARINE-NAVIGATION AND ENGINEERING-HAZARD MAPPING TO AID  
EXPLORATION AND IMPROVE OPERATIONAL LOGISTICS USING LANDSAT  
DATA - Paul Harrison and Mike McGuire, Cities Service Oil Co., Tulsa, OK

CONTRIBUTION OF LANDSAT IMAGERY TO GEOLOGIC PROSPECTING OVER  
IBERIAN PENINSULA - Jean-Claude Rivereau, BEICIP, Rueil, Malmaison, France

SUDAN INTERIOR EXPLORATION MAPPING PROJECT - PLANIMETRY AND  
GEOLOGY - John B. Miller and J. Vandenakker, Chevron Overseas Petroleum  
Inc., San Francisco, CA

### TUESDAY AFTERNOON

1:00 Rushmore Hall

Presiding: Jon W. Davidson, The Superior Oil Co., Houston, Texas

USE OF LANDSAT DIGITAL DATA AT HIGH RESOLUTION IN EXPLORATION FOR  
URANIUM IN SOUTH POWDER RIVER BASIN - R. J. P. Lyon, Stanford University,  
Stanford, CA

REMOTE SENSING AND BASE-METAL EXPLORATION MODELS - A. F. H. Goetz,  
Jet Propulsion Laboratory, South Pasadena, CA and L. J. Miller, Texas Gulf Inc.,  
Golden, Colorado

### KEYNOTE ADDRESS

2:00 Rushmore Hall

Presiding: Michel T. Halbouty, General Chairman, Independent Producer and  
Operator, Houston, Texas

Guest Speaker

The Honorable Robert A. Frosch

Administrator, National Aeronautics and Space Administration

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DISCRIMINATION OF HYDROTHERMAL ALTERATION USING SPECTRAL DATA -  
M. Abrams and L. Rowan, Jet Propulsion Laboratory, South Pasadena, CA

USE OF LANDSAT DATA IN EXPLORATION FOR LITHIUM-RICH BRINES IN  
EVAPORITE BASINS - W. D. Carter, U. S. Geological Survey, Reston, VA

FIELD EXPLORATION, USING LANDSAT IMAGES FOR LEAD-ZINC AND URANIUM,  
NORTHWESTERN CANADIAN MOUNTAINS - J. Haig Deb. Farris, Ventures West  
Ltd., Vancouver, B. C., Canada

TUESDAY EVENING

6:30 Reception  
Rushmore Hall

7:30 Banquet  
Rushmore Hall

Toastmaster: Michel T. Halbouty, General Chairman, Independent Producer and  
Operator, Houston, Texas  
Guest Speaker  
The Honorable Ted Stevens  
U. S. Senator from Alaska

WEDNESDAY MORNING

8:30 Rushmore Hall

Presiding: Jon W. Davidson, The Superior Oil Co., Houston, Texas

LANDSAT-SLAR IMAGERY COMBINATION FOR GEOLOGIC EXPLORATION OF  
ALASKA - P. Jan Cannon, University of Alaska, Fairbanks, Alaska

APPLICATIONS OF LANDSAT AND ENHANCEMENT TECHNIQUES TO HYDRO-  
CARBON EXPLORATION: A SUBJECTIVE GEOSTATISTICAL MODEL - Ralph  
N. Baker, General Electric Company, Beltsville, Maryland

RECONNAISSANCE GEOLOGIC MAPPING IN THE CHAGAI HILLS, BALUCHISTAN,  
PAKISTAN BY COMPUTER PROCESSING OF LANDSAT DIGITAL DATA - Jon D.  
Dykstra and Richard W. Birnie, Dartmouth College, Hanover, N. H.

URANIUM SEARCH IN LAKE ATHABASKA REGION BY IMAGE PROCESSING  
OF LANDSAT DATA - Carl L. Kober, DEMEX, Littleton, CO

LANDSAT APPLICATIONS IN METALLIC MINERAL EXPLORATION - Alan F.  
Smith, General Electric Space Division, Beltsville, MD

SATELLITE IMAGE ANALYSIS IN MINERAL EXPLORATION IN COMPLICATED  
STRUCTURAL TERRAINS, GREAT NORTHERN PENINSULA, NEWFOUNDLAND -  
Andrew Stancioff, Consulting Geologist, Frederick, MD and Patrick A. Hill,  
Carleton University, Ottawa, Ontario, Canada

GEOLOGIC REMOTE SENSING IN THERMAL INFRARED WAVELENGTH REGION -  
Robert K. Vincent, GeoSpectra, Ann Arbor, Michigan  
NEW AND FUTURE DEVELOPMENTS

WEDNESDAY AFTERNOON

1:00 Rushmore Hall

Presiding: Jon W. Davidson, The Superior Oil Co., Houston, Texas

EARTH RESOURCES OBSERVATORY -A CONCEPT - R. A. Hodgson, Gulf  
Oil Corp., Pittsburgh, PA

LOOKING INWARD-NOW AND IN THE FUTURE - John M. Denoyer, U. S.  
Geological Survey, Reston, VA

GEOSAT-REMOTE SENSING SYSTEMS OF THE FUTURE - Frederick B.  
Henderson III, Geosat Committee Inc., San Francisco, CA

PANEL DISCUSSION: "WHAT USERS NEED VERSUS WHAT TECHNOLOGY  
CAN OFFER"

INFORMAL DISCUSSION  
Harvest Room