

USRA

lunar & planetary information bulletin

Number 46

February 1987

LUNAR AND PLANETARY SCIENCE CONFERENCE XVIII

16-20 March 1987

The **EIGHTEENTH LUNAR AND PLANETARY SCIENCE CONFERENCE** will begin Sunday March 15 at 6:00 p.m. with registration and an open house at the Lunar and Planetary Institute. The registration fee for the conference is \$35.00. A shuttle bus will run between NASA area hotels and the LPI from 5:45 to 10:00 p.m. Registration will continue throughout the conference on the 2nd floor of the Gilruth Center at the Johnson Space Center. All conference activities, technical sessions, exhibits, poster sessions, etc., unless otherwise listed, will be at the Gilruth Center.

From a total of 584 abstracts accepted for publication in *Lunar and Planetary Science XVIII*, the Program Committee has constructed 29 technical sessions and one special session. The general structure of the program is as follows:

MONDAY AM, MARCH 16

Venus Tectonic Styles, Surface Structures and Geologic History
Carbonaceous Chondrites: Inclusions and Matrix
Impact Phenomena: Terrestrial Observations

MONDAY PM, MARCH 16

Venus Interior, Models and Surface Geochemistry
Carbonaceous Chondrites, Chondrules and the Nebula
Space Utilization
Impact Phenomena: Theory and Experimentation

TUESDAY AM, MARCH 17

Symposium: Lunar Geoscience Observer (LGO) and Future Lunar Exploration
Halley and Comet Exploration
Mars Geology and Geomorphology

TUESDAY PM, MARCH 17

Lunar Mare Basalts and Geology
Nucleosynthesis: Isotope Anomalies
The Outer Solar system

WEDNESDAY AM, MARCH 18

Mars and Other Remote Sensing
Planetary Differentiation and Crustal Genesis
Cosmic Dust

WEDNESDAY PM, MARCH 18

Mars Channels and Volatiles
Eucrites and Associates
Extinct-nuclide Chronology; Primitive Components

WEDNESDAY EVENING, MARCH 18, SPECIAL SESSION

Onset Of Accretion

THURSDAY AM, MARCH 19

SNC Meteorites
The Solar Nebula and Planetary Origins
Lunar and Asteroidal Regoliths

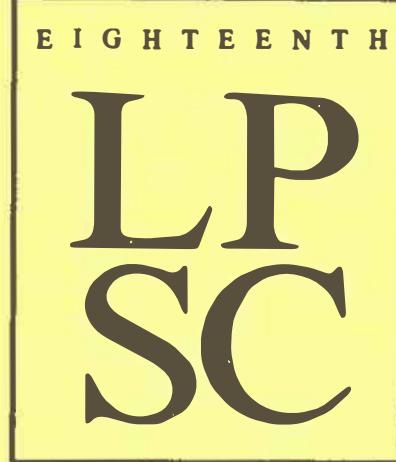
THURSDAY PM, MARCH 19

Lunar Highlands
Asteroids and Comets
Ureilites and Iron Meteorites
Cosmic Rays

FRIDAY AM, MARCH 20

Planetary Geologic Processes
Ordinary Chondrites
Planetary Physics

The preliminary program included in this issue reflects plans for the conference as they exist early in February. Minor changes may yet occur before the Conference itself. (See Appendix to this Bulletin)



CONFERENCE HIGHLIGHTS

POSTERS entered in the Technical Poster Session will be highlighted each day of the Conference in the Gilruth Center. Approximately 20-30 posters will be displayed each day. Presenters of the day's display will have the opportunity to present and discuss their material during an informal cash bar session from 5-6:30 p.m. each evening.

The *LPI Image Processing Facility* will conduct an open house throughout the conference in McGethchin Hall at the LPI. Check the registration desk for times. For additional information contact Mr. Kin Leung at 713-486-2165 or Ms. Sharon Allen at 713-486-2181.

The on-line and remote access capabilities of the *LPI Geophysical Data Facility* will be demonstrated at the LPI

Exhibit in the Coffee area, Gilruth Center, during the regular conference hours.

The *Combined Publishers Exhibit* will be on display in the coffee area of the Gilruth Center from Monday through Friday noon. Several publishers have already indicated an intent to participate. Among them are American Institute of Aeronautics and Astronautics, Astromedia, Cambridge University Press, Columbia University Press, Doubleday, National Space Society, D. Reidel Publishing Co. and University of Arizona Press.

Monday - March 16

Special session sponsored by the Planetary Society will be held Monday evening at 8:00 p.m. in the Johnson Space Center Auditorium, Building 2. The topic of the symposium will be: *FUTURE EXPLORATION OF MARS*. The participants will be:

Dr. V. Barsukov, Vernadsky Institute for Geochemistry and Analytical Chemistry, U.S.S.R.
 Dr. V.E. Moroz, Institute for Space Research, U.S.S.R.
 Dr. B. Murray, Professor of Planetary Science, California Institute of Technology; former Director of the Jet Propulsion Laboratory, Vice President of the Planetary Society
 Dr. H. Masursky, U.S. Geological Survey, Branch of Astrogeology.
 Moderator will be Dr. Louis Friedman, Executive Director, The Planetary Society.

This session is open to the public.

Tuesday - March 17

Tuesday morning in the Gilruth Center a *Symposium on Lunar Geoscience Observer (LGO) and Future Lunar Exploration* will convene as a regular technical session. The program for this session can be found in the Program Appendix included in this issue of *LPIB*.

A special session, *Planetary Exploration in the 1990's and Beyond*, will be held in the JSC Building 2 Auditorium at 8 p.m. The prospects for an expanded planetary exploration program in the 1990's are being seriously explored as a response to the recent reports of the Solar System Exploration Committee and the National Commission on Space. This session will examine current NASA thinking with respect to such missions as Mars Sample Return and the potential for eventual human exploration of the Moon and Mars.

Wednesday - March 18

The JSC Astronomer's Brownbag Lunch Club will present Paul Weissman, Jet Propulsion Laboratory in the Conference Room, Room 193, Building 31 at Noon. The topic for discussion will be *Comet Showers and Biological Extinctions*.

A symposium on *Terraforming* will be the topic of a meeting to be convened by James Oberg, in the Berkner Room, LPI, at 7:00 p.m. The discussion will concern planet-wide artificial climate modification on Earth and other planets. Long range prospects for redesigning the planets will be

included. The symposium should help the participants take the topic of Terraforming from the realm of science fiction to future technology.

A special session on *Onset of Accretion* which will focus on processes and phenomena related to the earliest stages in the growth of solids in the protoplanetary nebula, will convene at 8:00 p.m. in Room 104 at the Gilruth Center. Jeff Cuzzi, NASA-Ames, is convenor and moderator for this session.

Thursday - March 19

Thursday evening is *Tex-Mex Fiesta* time. Heraldng a new tradition, this social event will be held on the grounds of the LPI from 6:30 to 10:00 p.m. Activities will include beer and nacho appetizers, a Tex-Mex fiesta dinner, Country-Western Band in the early evening and a performance by our locally well-known "BAGS" from 9:30 until Paid registrants of the Conference are welcomed at the Fiesta. Tickets for guests and other non-conference registrants will be available at the Registration Desk during the Conference.

ABSTRACTS—

Lunar and Planetary Science XVIII

A staple-bound copy of abstracts will be sent before the conference to the corresponding author of an abstract. A copy is being sent to the foreign corresponding authors also. However, in the case of the foreign authors, if this mailing would result in multiple copies to one institution, only one will be sent. It is suggested that this copy be shared among the author's colleagues.

Abstract volumes will be distributed to conference attendees who have paid the \$35.00 registration fee. For those who cannot attend the conference but wish to have the abstracts, a supply will be available after the conference at the cost of postage and handling. **Note:** New prices are in effect for mail orders on the LPSC abstracts. Please be sure to refer to the order form included in this Bulletin and mail with payment to the LPI ORDER DEPT. at the LPI.

Summaries of the main topics discussed at the Conference will be published in the June issue of *Geotimes*.

ERRATA: LPSC XVIII INFORMATION

A typo occurred in the conference information brochure which has been mailed to those indicating an interest in LPSC XVIII. The toll free number for Continental Airlines is: 1-800-445-0632. The master file number for the reduced rates is: Z677. We regret any inconvenience which this may have caused conference attendees in attempting to make airline reservations.

Publication of 18th Proceedings

We are very pleased to announce satisfactory completion of an agreement between LPI and the Cambridge University Press for joint publication of the 18th Proceedings as a

hardcover book. Graham Ryder will be Proceedings editor and will be assisted by a team of distinguished associate editors.

Full information including detailed instructions for prospective authors will be available at the conference registration desk. Please contact LPI Publications for more detailed information if you need it before mid-March.

NASA AND TELESCOPE INSTITUTE DEVELOP PLANETARIUM PROJECT

NASA and the Space Telescope Science Institute (Baltimore), recently awarded a grant to the Davis Planetarium, Baltimore, for the development and distribution of *First Light*, a planetarium program based on the Hubble Space Telescope.

The grant from NASA's Educational Affairs Division and the Space Telescope Science Institute Associates Program, assists with the development of the planetarium program by the staff of the Davis Planetarium, provides the project with technical consultation and makes possible the distribution of the program to all interested planetariums.

The 33-minute program was designed for effectiveness in both school and public planetariums regardless of the extent of their auxiliary projection equipment.

First Light premiered at the Davis Planetarium in November and will continue for 6 months. Program distribution will begin in the late spring of 1987 and will extend beyond the launch of the Hubble Space Telescope, scheduled for November 1989.

Because NASA funding is involved, American planetariums may borrow the program production materials without cost. Planetariums in other countries also can acquire the production kit at a modest cost which will be determined by the Davis Planetarium at a later date. Planetariums wishing to reserve the program production package should write to Dan Zirpoli, Director, Davis Planetarium, 630 Light Street, Baltimore, Maryland 21230 or call 301/685-2370.

NASA Release "Note to Planetarium Directors"
January 6, 1987

NASA, MARTIN MARIETTA SET TO BEGIN MAGELLAN ASSEMBLY TESTS

According to the NASA program manager for the Magellan Project, William Piotrowski, subsystem integration and assembly tests of the Magellan spacecraft are scheduled to begin in March. The Magellan spacecraft which will map the surface of Venus, is scheduled for launch aboard the Shuttle in April 1989.

Spacecraft contractor Martin Marietta Denver Aerospace will begin integrating completed spacecraft subsystems including electrical, communications, solar panels and gyros, and will integrate other components from subcontractors as they are completed, Piotrowski reported.

The synthetic aperture radar, the only science instrument on Magellan, is being built by Hughes Aircraft and will acquire radar imagery of Venus' surface. An early test of the radar with the spacecraft is scheduled for this summer, Piotrowski told The AEROSPACE DAILY in a telephone interview. It won't be a flight model, "but it will contain some flight units," he said.

Spacecraft and radar integration should be completed by this fall and will be followed by "a number of tests" through the remainder of 1987 and 1988, Piotrowski said, leading up to the 1989 launch, a one-year delay caused by the Challenger accident.



Apollo 204
January 27, 1967

Challenger
January 28, 1986

The new launch date adds about a year to the spacecraft's travel time to Venus because of the new trajectory (type 4) which requires a trip around the Sun on the way, Piotrowski said. The original trajectory (type 2) is available only every 19 months, and the next window would have been November 1989. That would reduce the travel time to about six months.

But that timeframe has been set aside by NASA for either the Ulysses or Galileo mission. Piotrowski said that "since there was another type of trajectory launching at a different time to Venus, when one considers the overall planetary program schedule, it was more advantageous for Magellan to go in April 1989."

Excerpted from AEROSPACE DAILY v.141 no. 10,
January 15, 1987.

COBE TO BE LAUNCHED ON DELTA ROCKET

NASA has announced plans to launch the Cosmic Background Explorer (COBE) satellite on a Delta expendable launch vehicle rather than the Space Shuttle. This decision will further NASA's effort to pare the backlog of science payloads that cannot be accommodated on a timely basis by the Shuttle.

The COBE, designed, integrated and tested at NASA's Goddard Space Flight Center, Greenbelt, Md., will be launched into a 560-statute-mile, sun-synchronous orbit from Vandenburg Air Force Base, Calif., in early 1989.

Carrying three scientific instruments, COBE is designed to study the "Big Bang," the primeval explosion that started the expansion of the universe 15 billion years ago.

Originally scheduled for deployment from the Space Shuttle in July 1988, COBE is one of several science payloads awaiting launch as a result of the Challenger accident and the decision to defer activation of the West Coast Shuttle launch site until the early 1990s.

The switch from Shuttle to Delta will mean a reduction in the weight of COBE from 10,500 pounds to 5,000 pounds and a reduction in size from 15 feet to 8 feet in diameter. Scaling down of the spacecraft will require a redesign of the spacecraft's primary structure, a reconfiguration of its solar arrays, thermal shield and the differential microwave radiometer receiver. The Delta launch vehicle carries the usual complement of nine strap-on solid rocket boosters. However, the boosters on this version of the Delta have a higher thrust rating, allowing it to accommodate the weight of the COBE.

NASA Press Release 87-1, January 5, 1987

AROUND-THE-WORLD IN 15 DAYS: NASA BALLOON FLIGHTS

Officials at NASA's Goddard Space Flight Center, Greenbelt, Md., have announced plans to launch two large,

unmanned balloons on around-the-world flights. The flights are expected to be launched during January and February from a site in Alice Springs, Australia.

According to Harvey Needleman, chief, Balloon Projects Branch, Goddard-Wallops Flight Facility, Wallops Island, Va., "The southern hemisphere is about the only place that we can conduct long duration flights of this type."

"To circumnavigate the globe, the balloons require strong, persistent winds to maintain proper latitude with minimum deviation. We expect that the flights will experience winds between 50 and 75 knots enabling the balloons to circle the Earth in 12 to 18 days," he continued.

The balloons will go around the Earth at about 23 degrees south latitude varying probably no more than 5 degrees from that course. Countries along the 23rd parallel south include New Zealand, Chile, Peru, Argentina, Bolivia, Paraguay, Botswana, Zambia, South Africa, Zimbabwe, Mozambique and Madagascar.

If favorable weather prevails, the first balloon could be launched as early as January 19. The second balloon will be released no less than 3-4 days later to minimize any potential operational interference between the two flights. In case of a weather delay, the launches could be accomplished anytime within the month of February.

The helium-filled, 28 million-cubic-feet volume balloons are taller than the Washington Monument and will carry payloads, weighing 3,000 pounds, to an altitude of 130,000 feet. These are the first balloons manufactured from a newly-developed material, called "Astrofilm," to be used in a global application.

Satellites play important roles in the success of both flights. Two U.S. polar-orbiting satellites, carrying French ARGOS instruments, will track the balloon flights. Four meteorological satellites, orbiting over the equator at different longitudes, will be used to relay to the ground the data acquired. Two of the satellites are U.S.-operated GOES satellites, the others belong to the European Space Agency and Japan.

The flights are being conducted by NASA for the University of California (U. of Calif.), Berkeley and San Diego branches, and carry a joint experiment by Louisiana State University (LSU) and the University of Washington.

Dr. Robert Lin is principal investigator for the U. of Calif. experiment studying microflares and solar flares. Microflares have been discovered to occur more frequently than the classic solar flare. The energy produced by these microflares is now believed to be significant and may explain some phenomenon like the heating of the sun's corona. Results of these studies may be very useful to an understanding of the micro-scale structure of the sun and other similar stars.

The principal investigator for the experiment flying on the second balloon is Dr. John Wefel of LSU. His experiment will utilize an emulsion chamber that will be exposed to the primary cosmic rays to study nuclear interactions and cosmic ray composition.

In addition to the scientific experiments, each balloon will carry electronic instrumentation developed to meet the special requirements of long duration flight. The electronic system will be powered by batteries with daily recharging provided by arrays of solar cells.

When each balloon nears the end of its around-the-world flight, technicians in Australia will terminate the flight by radio signal to effect land recovery in a safe location during daylight hours. When transmitted, the signal will fire a charge that releases the payload from the balloon, allowing the payload to descend by parachute. Once recovered, the payloads will be prepared for shipment back to the U.S. where they will be refurbished for future flights.

Excerpted from NASA Press Release 87-4, January 16, 1987.

NEW PUBLICATIONS



Some of the following publications are available from the Superintendent of Documents, Government Printing Office, Washington DC 20402. Although this agency requires prepayment on all orders, they will accept Mastercard or VISA credit cards. Just include the account number and expiration date on your order to them. Some of the publications may be available from the GPO bookstores which are found in major cities around the U.S. Check your city directory for a local listing.

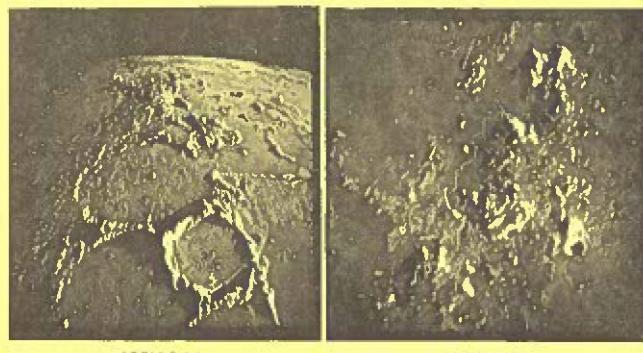
Several of the GPO publications are being offered by other distributors at widely varying prices. It pays to shop and compare.

PLEASE do not send orders for these publications to the LPI (unless listed as an LPI publication). We are not a distribution center and this will only delay your order. If you are interested in obtaining any of the items in the **New Publications List** do contact the publisher or supplier listed with each item. Inclusion of publications and other products in this Bulletin is not to be considered an endorsement by the LPI.

LPI OFFERS NEW SLIDE SET

Apollo Landing Sites

This set of 40 slides provides photographic coverage of the regional setting for the six Apollo landing sites. It has been compiled by Dr. James Zimbelman, staff scientist at the LPI. Dr. Zimbelman has selected a series of photographs for each of the sites. The photos show the sites at a variety of scales ranging from Earth-based telescopic views spanning hundreds of kilometers of the lunar surface to high-resolution photographs taken from lunar orbit. Descriptive text giving geological details for each area is included in the booklet which accompanies the slide set.



APOLLO 14

APOLLO 15

The slide set should be useful for both educators and researchers who wish to show the regional setting of samples and photographs returned by the Apollo missions.

This pre-publication announcement offers the 40-slide set and booklet for \$15.00 to U.S. requestors; \$20.00 for foreign orders. The set will be available in mid-March 1987. Orders may be placed using the LPI Order Form included in this Bulletin.

AGU ANNOUNCES AVAILABILITY OF PROCEEDINGS OF THE 17TH LPSC

Proceedings of the 17th Lunar and Planetary Science Conference 1986 are available from the American Geophysical Union. Part 1 was published in November 1986; Part 2 will be available in Spring 1987. 1986 subscribers to *Journal of Geophysical Research, Solid Earth and Planets* will receive Part 1 of the 17th Conference. 1987 subscribers will receive Part 2.

Pricing of the Proceedings varies. Members of AGU may obtain Parts 1 and 2 for \$20.00 softbound; and \$35.00 hardbound. Members of the Meteoritical Society, Geochemical Society, and the Division for Planetary Sciences of the American Astronomical Society receive a special price of \$23.00 softbound; \$38.00 hardbound. For institutions and other individuals the list price is \$70.00 softbound, \$100.00 hardbound.

Orders or other inquiries should be directed to:

American Geophysical Union
2000 Florida Avenue NW
Washington DC 20009
Phone: 1-800-424-2488 toll-free
202-462-6903 (in D.C. area or outside contiguous U.S.)

TERSCH ENTERPRISES OFFERS SLIDE SETS

Two slide sets on Halley's Comet are being offered by this firm. The first is entitled *Halley's Comet (1986) Pre-Perihelion*, Slide set 210 (18 color slides shipped postpaid for \$15.00). This set shows closeup and wide angle photos of the comet as seen from Tiara Observatory in South Park,

Colorado. The second set is entitled *Halley's Comet (1986 Post-Perihelion)*, Slide Set 213 (44 color slides shipped postpaid for \$32.50). This set goes from March through May and shows wide angle and closeup views of the comet. Included in this set are 15 views taken from Moorea, French Polynesia. All slides are done by professionals and special attention was given to the proper color balance for each slide.

The company overs a catalog to educators and scientists free of charge. The catalog contains over 4100 selections of astronomical slides. Institutional purchase orders are accepted. Contact:

Tersch Enterprises
P.O. Box 1059
Colorado Springs CO 80901
Phone: 303-597-3603

ASTRONOMICAL SOCIETY OF THE PACIFIC - NEW RELEASES

Voyager Uranus Slide Set

A new slide set showing 15 of the best images obtained during the Voyager spacecraft flyby of the planet Uranus has just been released. The set includes color and black-and-white views of the rotation of the Uranus cloud layers, the complex ring system, and the major satellites, as well as several close-ups of the bizarre terrain found on the satellite Miranda. The dramatic images were selected to display the richness and variety of astronomy and geology revealed by the historic first mission to the seventh planet.

The set is accompanied by a 20 page booklet giving a thorough introduction to the Voyager mission and the Uranus system, detailed nontechnical explanations of each slide, and a reading list of articles and books about our new understanding of Uranus. The set is available for \$14.95 (including postage and handling).

Astronomical Software List

An annotated list of astronomical software for home computers includes 89 different commercially available programs for such popular microcomputers as Apple, Macintosh, IBM, Commodore, Atari, TRS-80, and Hewlett-Packard. The software ranges from simple calculational programs to elaborate home planetarium and space travel simulations.

This list prepared by A.S.P. includes a brief description of each piece of software, the computers for which it is available, the retail price, and the full address of the manufacturer. Also included are brief reviews of 13 introductory books and articles on astronomical computing.

To obtain a copy of the 8-page guide send \$2.00 with your name and address to A.S.P.

Clyde Tombaugh Videotape

A 39-minute videotape in which Clyde Tombaugh explains the work that led to his finding the planet Pluto in 1930 has been released by A.S.P. The tape shows a rare glimpse "behind-the-scenes" of a major astronomical discovery.

In 1985, Tombaugh, then age 79, returned to the Lowell Observatory where his discovery was made. The taping was done at Lowell and later at his home in New Mexico. Talking in an unassuming, nontechnical style and surrounded by the telescope and other equipment he used, Tombaugh tells the human and scientific story of the Kansas farmboy who came to Lowell as an amateur astronomer and stayed to make one of the epochal discoveries of 20th century astronomy.

The tape, made by Thomas Hockey of New Mexico State University, assumes little or no background in astronomy and can be enjoyed at home or in a classroom. It is available only in VHS format, comes in a protective box, and is accompanied by a twelve-page booklet written by Tombaugh. It is available for \$32.95 (includes postage and handling).

To obtain any of the materials from the A.S.P., send check, money order to:



Astronomical Society of the Pacific
1290 24th Avenue
San Francisco CA 94122
Phone: 415-661-8660

Because A.S.P. is a non-profit organization, they ask that foreign orders be accompanied by an additional 30% to cover postage and that remittance be in U.S. funds. California residents please add correct sales tax.

GPO OFFERS TEACHER'S KIT ON NUCLEAR ENERGY

The Department of Energy has released a new two-part teacher's kit on nuclear energy. *The Harnessed Atom* is a comprehensive middle school teacher's kit that provides students and teachers with unbiased, and up-to-date materials about nuclear energy. The text reviews the basic scientific principles that underlie nuclear energy and focuses on atoms, radiation, the technology of a nuclear powerplant, and the issues concerning nuclear energy. The kit contains written text and filmstrip, review exercises and activities for students in grades 6 through 8. The Teacher's Guide contains suggestions for using the materials, including ideas for a learning center. This kit also includes discussion questions, answers to review exercises and activities, a list of materials, and a list of additional resources. The student guide consists of four units, 18 separate reading lessons including summary and review exercises.

The Harnessed Atom—A Teacher's Guide, 425 pages, S/N 061-000-00677-0, \$18.00 is available from:

Superintendent of Documents
U.S. Government Printing Office
Department SSMC
Washington DC 20402
Phone: 202-783-3238

Orders must be prepaid but VISA or MasterCard is accepted.

NEW EDITION OF REMOTE SENSING BOOK PUBLISHED

Remote Sensing: Principles and Interpretation

Floyd Sabins' book on remote sensing has been a standard source book on the subject since it was first published in 1978. Much has happened in the field since then, and many new sensors have been brought into use, such as the Landsat Thematic Mapper, the French SPOT system; SEASAT and Shuttle imaging radars, and a variety of experimental multi-channel, narrow-band systems working in the infra-red. Clearly, then, there was a need for a new edition of the book, which Sabins has now provided.

Physically, the new book is closely similar to its predecessor with the same size and format. It is slightly longer, at 449 pages compared to 425 in the original. All of the original chapter headings have been retained, in the same order, and naturally much of the fundamental material remains unchanged—the section on aerial photography, for example, has only been lightly revised. The later chapters have all been extensively revised and brought up to date. For example, in the chapter on radar images, there is an excellent new chapter on SIR-A data, but little on SIR-B. There is one completely new chapter, on land use and land cover analysis, and a new appendix on "Basic geology for remote sensing." This seems rather a superfluous, almost frivolous addition. How much serious geology can one convey in a mere four pages, half of them devoted to figures? This minor reservation apart, the new edition of Sabins' book represents a timely revision of what was already an invaluable source book and teaching aid, and it will undoubtedly be valued by students of remote sensing for many years to come.

Floyd Sabins, *Remote sensing: Principles and Interpretation*, 2d edition, 1987. W.H. Freeman Publishing Co.
ISBN 0-7167-1793-X.

LPI ANNOUNCES SOUTH INDIA FIELD WORKSHOP

A field workshop and conference on "The Deep Continental Crust of South India" will be held on the

Precambrian Shield of India, during January 1988. The meeting will be sponsored by agencies in the U.S. and India, including the National Science Foundation (NSF), the National Aeronautics and Space Administration, the Lunar and Planetary Institute, and the Geological Society of India.

Major funding for the workshop will come from the U.S.-India Cooperative Science Program of NSF. Attendance is therefore limited to U.S.-based scientists, although U.S. citizenship is not a requirement. Due to the complex logistics involved, as well as space limitations of meeting facilities, the number of participants will be limited to 25. One of the principal criteria used to select participants is that the individual's participation could lead to active, cooperative research on the South India Shield. This premise should be demonstrated on applications due at LPI by 31 March 1987.

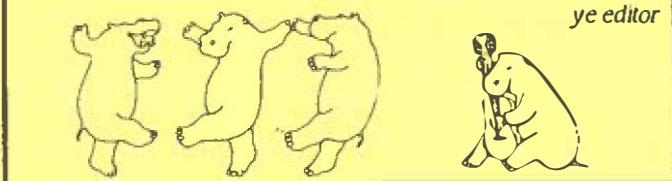
Members of the organizing committee are: Lewis D. Ashwal and Kevin Burke, Lunar and Planetary Institute, William C. Phinney, NASA Johnson Space Center, and Robert C. Newton, University of Chicago. The Conference Administrator is Pamela Jones, Lunar and Planetary Institute, 3303 NASA Road One, Houston, TX 77058, Phone: 713-486-2150.

NOTE TO OUR READERS:

PLEASE let us know when you move. Each change of address which we get through the postal service costs us \$.30-\$8.00 in return postage costs. Because of the high costs of postage, we will make the address change on our list but we will no longer mail another copy of the LPIB issue or whatever was contained in the envelope that we get back. Since the same mailing list is used for conference announcements and other LPI mailings you will miss whatever is mailed from the LPI in the interval that we do not have your address change.

If you want to be sure that you get all of your mailings from the Institute promptly, be sure to send a change of address to: Maillist, Lunar & Planetary Institute, 3303 NASA Road One, Houston, TX 77058-4399. It often takes the postal service 60-90 days to return an item to us with the address correction. We also often receive a notice on the returned envelope that the "forwarding order is expired." Under that circumstance, we have no alternative than to delete the name from the mailing list. Do yourself and us a service. Remember the LPI Mailing List when you move. Thanks.

ye editor

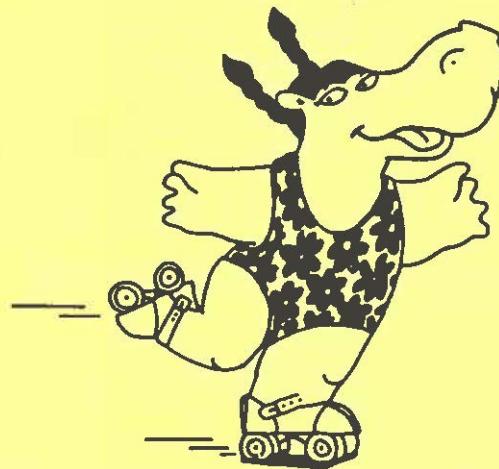


The LUNAR AND PLANETARY INFORMATION BULLETIN is published by the Lunar and Planetary Institute. There are usually three issues per year. It is distributed free on request to lunar and planetary scientists, educators, students, and their institutions.

The next issue will be in MAY. Copy deadline is APRIL 17, 1987. If you have any announcements which you would like to have printed in the **BULLETIN**, please send them to the Editor.

We reserve the right to select and edit copy.

Editor: Frances B. Waranus
 Lunar and Planetary Institute
 3303 NASA Road One
 Houston, TX 77058-4399
 Phone: 713/486-2135



CALENDAR

1987

March 10-14	Origin and Evolution of Planetary and Satellite Atmospheres Conference , Tucson, Arizona.	Sushil K. Atreya University of Michigan Space Research Building Ann Arbor MI 48109-2143
March 16-20	XVIIIth Lunar and Planetary Science Conference Houston, Texas.	
March 27-29	L-5 Society's 6th Space Development Conference Pittsburgh, Pennsylvania.	Pittsburgh L-5 Society P.O. Box 8391 Pittsburgh PA 15218-0391 Phone: 412-351-4973
April 10-15	European Geophysical Society, XII General Assembly , Strasbourg, France.	M.M. Cara Institut de Physique du Globe 5 rue R. Descartes F-67084 Strasbourg CEDEX France Phone: +33-88-604110
April 13-16	1987 European Union of Geosciences Biennial Meeting , Strasbourg	Organizing Committee EUG IV Dept. of Earth Sciences ETH-Honggerberg CH-8093 Zurich, Switzerland
May 5-7	Pecora XI: Satellite Land Remote Sensing - Current Programs and a Look to the Future , Sioux Falls, South Dakota.	Pecora XI Symposium EROS Data Center Sioux Falls, SD 57198

May 6-9	8th Biennial SSI/Princeton Conference on Space Manufacturing, Princeton, New Jersey.	Space Studies Institute Ms. Barbara Faughnan, Conference Coordinator P.O. Box 82 Princeton NJ 08540
May 10-15	Impact of VLBI on Astrophysics and Geophysics, Cambridge, Massachusetts. IAU Symposium no. 129.	J. Moran Center for Astrophysics Mail Stop 42 60 Garden Street Cambridge MA 02138
May 18-22	American Geophysical Union Spring Meeting, Baltimore, Maryland.	American Geophysical Union Spring Meeting 2000 Florida Avenue NW Washington DC 20009 Phone: 202-462-6903
June 7-9	1986 Houston Space and Telecomm Symposium Houston, Texas.	Space and Telecomm, Inc. P.O. Box 230192 Houston TX 77223 Phone: 713-225-1950
June 8-10	Twelfth Symposium on Antarctic Meteorites, National Institute of Polar Research, Tokyo, Japan.	Tatsuro Matsuda, Director-General National Institute of Polar Research 9-10 Kaga 1-Chome, Itabashi-Ku Tokyo 173 Japan Phone: (03)962-4711 - 4716
June 14-18	170th Meeting of the American Astronomical Society, Vancouver, British Columbia.	Harvey Richer Dept. of Geophysics and Astronomy University of British Columbia Vancouver BC V6T 1W5 Canada Phone: 604-228-4134
June 16-18	Uranus Conference, Pasadena, California.	Jay T. Bergstrahl, Organizer Mail Stop 183-301 Jet Propulsion Laboratory 4800 Oak Grove Drive Pasadena CA 91109 Phone: 818-354-2296
June 20-24	Contribution of Amateur Astronomers to Astronomy, Paris, France.	P. Simon Societe Astronomique de France 3, Rue Beethoven 75016 Paris, France Phone: 224.13.74
July 6-10	International Workshop Cryptoexplosions and Catastrophes in the Geological Record. Parys, South Africa	Organising Committee Cryptoexplosions Workshop Bernard Price Institute of Geophysical Research University of the Witwatersrand 1 Jan Smuts Avenue Johannesburg 2001 South Africa

July 6-11	Continental and Oceanic Lithosphere: Similarities and Differences , University of London, Royal Holloway and Bedford New College, England.	Steve Bergman Arco Exploration and Technology Corp. 2300 West Plano Pkwy. Plano TX 75075 Phone: 214-422-6264
July 13-17	Workshop on the Growth of Continental Crust , Oxford University, England.	Pam Jones Lunar and Planetary Institute 3303 NASA Road One Houston TX 77058-4399 Phone: 713-486-2150
July 14-16	99th Annual Meeting of the Astronomical Society of the Pacific, "Cool Stars and Galactic Structure" , Pomona College, Claremont, California.	Summer Meeting A.S.P. 1290 24th Avenue San Francisco CA 94122 Phone: 415-661-8660
July 15-16	Solar System—Chemical Clues to Its Origin , Royal Society of London, England.	Miss C.A. Johnson The Royal Society 6 Carlton House Terrace London SW1Y 5AG England
July 16-24	SPACEWEEK	Spaceweek National Headquarters P.O. Box 58172 Houston TX 77258 Phone: Lisa Ehrler 713-332-4968 or Roger Grape 713-271-5000
July 18-22	Case for Mars III: Strategies for Exploration , Boulder, Colorado.	Case for Mars III P.O. Box 4877 Boulder CO 80306 Phone: 303-494-8144
July 20-24	50th Annual Meeting of the Meteoritical Society , Newcastle upon Tyne, England.	Dr. D.W. Collinson School of Physics The University Newcastle upon Tyne NE1 7RU England Phone: 091-232-8511
August 9-22	XIXth General Assembly of the International Union of Geodesy and Geophysics , Vancouver, British Columbia, Canada	Conference Secretariat c/o Venue West #801 - 750 Jervis Street Vancouver, B.C., Canada V6E 2A9
August 9-22	Interdisciplinary Symposium 10 - Comparative Planetology - Sputnik Commemorative Symposium , Vancouver, British Columbia, Canada	Dr. James W. Head III Department of Geological Sciences Brown University, Box 1846 Providence RI 02912 Phone: 401-863-2526

August 17-21	7th International Conference on Basement Tectonics, Queen's University, Kingston, Ontario, Canada.	7th International Conference on Basement Tectonics c/o Events Management Inc. 4 Cataraqui Street, Suite 209 Kingston Ontario Canada K7K 1Z7 Phone: 613-547-5093
August 25-27	International Workshop on Time-Variable Phenomena in the Jovian System, Flagstaff, Arizona.	William A. Baum Lowell Observatory Mars Hill Road Flagstaff AZ 86001 Phone: 602-774-3358
September 6-11	15th Annual Meeting on Atmospheric Studies by Optical Methods (AMASOM), Granada, Spain.	Dr. J.J. Lopez-Moreno Instituto de Astrofísica de Andalucía P.O. Box 2144 18080 Granada Spain Phone: 121300
September 10-27	Evolution of Metamorphic Belts, Department of Geology, University College, Dublin, Ireland.	J.S. Daly Department of Geology University College, Dublin Belfield, Dublin 4, Ireland
September 14-16	Origin of Granites, Edinburgh, Scotland.	Meetings Secretary Royal Society of Edinburgh 22-24 George Street Edinburgh, Scotland EH2 2PQ

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THE MOON

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CLEVERLY,W.H. + JAROSEWICH,E. + MASON,B. (W. A. SCHOOL OF MINES, KALGOORLIE, WESTERN AUSTRALIA 6430): CAMEL DONGA METEORITE, A NEW EUCRITE FROM THE NULLARBOR PLAIN, WESTERN AUSTRALIA METEORITICS VOL. 21, 263-269 (1986)

COCKE,D.L. + ROWE,M.W. (DEPT. OF CHEMISTRY, TEXAS A AND M UNIV., COLLEGE STATION, TX 77843): PLASMA CHEMISTRY OF METEORITES -- 1. CLEANSING AND REDUCTION OF THE ODESSA IRON METEORITE METEORITICS VOL. 21, 315-317 (1986)

EVANS,J.C. + REEVES,J.H. + BOGARD,D.D. (BATTELLE, PACIFIC NORTHWEST LABS., RICHLAND, WA 99352): COSMOGENIC RADIONUCLIDES AND NOBLE GASES IN THE WETHERSFIELD (1982) CHONDRITE METEORITICS VOL. 21, 243-250 (1986)

FRANCHI,I.A. + WRIGHT,I.P. + PILLINGER,C.T. (PLANETARY SCIENCES UNIT, THE OPEN UNIVERSITY, MILTON KEYNES, MK7 6AA, UK): HEAVY NITROGEN IN BENCUBBIN--A LIGHT-ELEMENT ISOTOPIC ANOMALY IN A STONY-IRON METEORITE NATURE VOL. 323, 138-140 (1986)

GUIMON,R.K. + SEARS,D.W.G. + LOFGREN,G.E. (DEPT. OF CHEMISTRY AND BIOCHEMISTRY, UNIV. OF ARKANSAS, FAYETTEVILLE, AR 72701): THE THERMOLUMINESCENCE SENSITIVITY - METAMORPHISM RELATIONSHIP IN ORDINARY CHONDRITES: EXPERIMENTAL DATA ON THE MECHANISM AND IMPLICATIONS FOR TERRESTRIAL SYSTEMS GEOPHYSICAL RESEARCH LETTERS, VOL. 13, 969-972 (1986)

HEYMANN,D. (DEPT. OF GEOLOGY AND GEOPHYSICS, RICE UNIV., HOUSTON, TX 77251): BUCKMINSTERFULLERENE, ITS SIBLINGS, AND SOOT: CARRIERS OF TRAPPED INERT GASES IN METEORITES? PROCEEDINGS OF THE SEVENTEENTH LUNAR AND PLANETARY SCIENCE CONFERENCE, PART 1, JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 91, NO. B13, PAGES E135-E138, NOVEMBER (1986)

IZAKOV,M.N. (INST. FOR SPACE RESEARCH, ACADEMY OF SCIENCES OF THE USSR, PROFSOVUZNAYA 88, MOSCOW, USSR): FORMATION OF SOLID MATERIALS IN THE PREPLANETARY NEBULA AND THE COMPOSITION OF CHONDRITES SOLAR SYSTEM RESEARCH VOL. 20, 22-32 (1986)

KIRSCHBAUM,C. (DEPT. OF PHYSICS, UNIV. OF CALIFORNIA AT BERKELEY, BERKELEY, CA 94720): IDENTIFICATION OF COSMOGENIC ARGON COMPONENTS IN ALLENDE BY LASER MICROPROBE PROCEEDINGS OF THE SEVENTEENTH LUNAR AND PLANETARY SCIENCE CONFERENCE, PART 1, JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 91, NO. B13, PAGES E129-E133, NOVEMBER (1986)

KORNACKI,A.S. + FECLEY,B. (SHELL WESTERN E AND P. INC., P.O. BOX 831, HOUSTON, TX 77001): THE ABUNDANCE AND RELATIVE VOLATILITY OF REFRACTORY TRACE ELEMENTS IN ALLENDE CA, AL-RICH INCLUSIONS: IMPLICATIONS FOR CHEMICAL AND PHYSICAL PROCESSES IN THE SOLAR NEBULA EARTH AND PLANETARY SCIENCE LETTERS VOL. 79, 217-234 (1986)

MARVIN,U.B. (HARVARD-SMITHSONIAN CENTER FOR ASTROPHYSICS, CAMBRIDGE, MA 02138): METEORITES, THE MOON AND THE HISTORY OF GEOLOGY JOURNAL OF GEOLOGICAL EDUCATION VOL. 34, 140-165 (1986)

NIER,A.O. + SCHLUTTER,D.J. (SCHOOL OF PHYSICS AND ASTRONOMY, UNIV. OF MINNESOTA, MINNEAPOLIS, MN 55455): MASS SPECTROMETRIC STUDY OF THE MERCURY ISOTOPES IN THE ALLENDE METEORITE PROCEEDINGS OF THE SEVENTEENTH LUNAR AND PLANETARY SCIENCE CONFERENCE, PART 1, JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 91, NO. B13, PAGES E124-E128, NOVEMBER (1986)

PAPANASTASSIOU,D.A. (DIV. OF GEOLOGICAL AND PLANETARY SCIENCES, CALIFORNIA INST. OF TECH., PASADENA, CA 91109): CHROMIUM ISOTOPIC ANOMALIES IN THE ALLENDE METEORITE ASTROPHYSICAL JOURNAL VOL. 308, L27-L30 (1986)

RUBIN,A.E. (INST. OF GEOPHYSICS AND PLANETARY PHYSICS, UNIV. OF CALIFORNIA, LOS ANGELES, CA 90024): ELEMENTAL COMPOSITIONS OF MAJOR SILICIC PHASES IN CHONDRULES OF UNEQUILIBRATED CHONDRITIC METEORITES METEORITICS VOL. 21, 283-293 (1986)

SCOTT,E.R.D. + MCKINLEY,S.G. + KEIL,K. + WILSON,I.E. (INST. OF METEORITICS, UNIV. OF NEW MEXICO, ALBUQUERQUE, NEW MEXICO 87131): RECOVERY AND CLASSIFICATION OF THIRTY NEW METEORITES FROM ROOSEVELT COUNTY, NEW MEXICO METEORITICS VOL. 21, 303-308 (1986)

SCOTT,E.R.D. + TAYLOR,G.J. + KEIL,K. (INST. OF METEORITICS, UNIV. OF NEW MEXICO, ALBUQUERQUE, NM 87131): ACCRETION, METAMORPHISM, AND BRECCIATION OF ORDINARY CHONDRITES: EVIDENCE FROM PETROLOGIC STUDIES OF METEORITES FROM ROOSEVELT COUNTY, NEW MEXICO PROCEEDINGS OF THE SEVENTEENTH LUNAR AND PLANETARY SCIENCE CONFERENCE, PART 1, JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 91, NO. B13, PAGES E115-E123, NOVEMBER (1986)

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- STEELE,I.M. (DEPT. OF THE GEOPHYSICAL SCIENCES, UNIV. OF CHICAGO, CHICAGO, IL 60637): CATHODOLUMINESCENCE AND MINOR ELEMENTS IN FORSTERITES FROM EXTRATERRESTRIAL SAMPLES AMERICAN MINERALOGIST VOL. 71, 966-970 (1986)
- TESHIMA,J. + WASSERBURG,G.J. + EL GORESY,A. + CHEN,J.H. (THE LUNATIC ASYLUM OF THE CHARLES ARMS LAB., CALIFORNIA INST. OF TECH., PASADENA, CA 91125): A COMPARATIVE STUDY OF IRON METEORITES WITH ^{107}Ag ANOMALIES GEOCHIMICA ET COSMOCHIMICA ACTA VOL. 50, 2073-2087 (1986)
- VILAS BOAS,J.W.S. + PAES LEME,N.M. + RIZZO PIAZZA,L. + DA COSTA,A.M. + MACEDO MOURA,M.S.S. (INSTITUTO DE PESQUISAS ESPACIAIS, C.P. 515, 12.200-SAO JOSE DOS CAMPOS, SP, BRAZIL): LOCAL AND LONG-DISTANCE EFFECTS OF METEOR SHOWERS IN THE LOW IONOSPHERE JOURNAL OF ATMOSPHERIC AND TERRESTRIAL PHYSICS VOL. 48, 643-648 (1986)
- VOLOSHCHUK,YU.I. + KASHCHEEV,B.L. + NAZARENKO,N.B. (INST. OF RADIO ELECTRONICS, UKRAINIAN SSR, USSR): STRUCTURE OF A METEOR COMPLEX NEAR THE ORBIT OF THE EARTH. II. ESTIMATE OF THE SPATIAL-PROBABILITY CHARACTERISTICS SOLAR SYSTEM RESEARCH VOL. 20, 33-40 (1986)
- WESTPHAL,M. (LABORATOIRE DE PALEOMAGNETISME, INSTITUT DE PHYSIQUE DU GLOBE, 5 RUE DESCARTES, F-67084, STRASBOURG, FRANCE): NATURAL REMANENT MAGNETIZATION, THERMOREMANENT MAGNETIZATION AND RELIABILITY OF PALAEointensity DETERMINATIONS ON H CHONDRITES PHYSICS OF THE EARTH AND PLANETARY INTERIORS VOL. 43, 300-306 (1986)
- WIDOM,E. + RUBIN,A.E. + WASSON,J.T. (INST. OF GEOPHYSICS AND PLANETARY PHYSICS, UNIV. OF CALIFORNIA, LOS ANGELES, CA 90024): COMPOSITION AND FORMATION OF METAL NODULES AND VEINS IN ORDINARY CHONDRITES GEOCHIMICA ET COSMOCHIMICA ACTA VOL. 50, 1989-1995 (1986)
- MISCELLANEOUS (Cosmic Dust, Tektites, cretaceous tertiary event...)
- ABE,Y. + MATSUI,T. (GEOPHYSICAL INST., UNIV. OF TOKYO, BUNKYO-KU, TOKYO 113, JAPAN): EARLY EVOLUTION OF THE EARTH: ACCRETION, ATMOSPHERE FORMATION, AND THERMAL HISTORY PROCEEDINGS OF THE SEVENTEENTH LUNAR AND PLANETARY SCIENCE CONFERENCE, PART 1, JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 91, NO. B13, PAGES E291-302, NOVEMBER (1986)
- BAILEY,J.C. (INST. FOR PETROLOGY, COPENHAGEN UNIV., ØSTER VOLDGADE 10, DK-1350 COPENHAGEN K, DENMARK): FLUORINE AND CHLORINE CONTENTS OF TEKTITES METEORITICS VOL. 21, 295-301 (1986)
- BUTLER,J.C. (DEPT. OF GEOSCIENCES, UNIV. OF HOUSTON, TX 77004): THE ROLE OF SPURIOUS CORRELATION IN THE DEVELOPMENT OF A KOMATIITE ALTERATION MODEL PROCEEDINGS OF THE SEVENTEENTH LUNAR AND PLANETARY SCIENCE CONFERENCE, PART 1, JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 91, NO. B13, PAGES E275-E280, NOVEMBER (1986)
- CLAYTON,R.N. + MAYEDA,T.K. + BROWNLEE,D.E. (ENRICO FERMI INST., DEPT. OF CHEMISTRY, UNIV. OF CHICAGO, CHICAGO, IL 60637): OXYGEN ISOTOPES IN DEEP-SEA SPHERULES EARTH AND PLANETARY SCIENCE LETTERS VOL. 79, 235-240 (1986)
- HARTMETZ,C.P. + OSTERTAG,R. + SEARS,D.W.G. (DEPT. OF CHEMISTRY AND BIOCHEMISTRY, UNIV. OF ARKANSAS, FAYETTEVILLE, AR 72701): A THERMOLUMINESCENCE STUDY OF EXPERIMENTALLY SHOCK-LOADED OLIGOCLASE AND BYTOWNITE PROCEEDINGS OF THE SEVENTEENTH LUNAR AND PLANETARY SCIENCE CONFERENCE, PART 1, JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 91, NO. B13, PAGES E263-E274, NOVEMBER (1986)
- KOEBERL,C. (INST. OF GEOCHEMISTRY, UNIV. OF VIENNA, DR.-KARL-LUEGER-RING 1, A-1010 VIENNA, AUSTRIA): MUONG NONG TYPE TEKTITES FROM THE MOLDAVITE AND NORTH AMERICAN STREWN FIELDS? PROCEEDINGS OF THE SEVENTEENTH LUNAR AND PLANETARY SCIENCE CONFERENCE, PART 1, JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 91, NO. B13, PAGES E253-E258, NOVEMBER (1986)
- KYTE,F.T. + WASSON,J.T. (INST. OF GEOPHYSICS AND PLANETARY PHYSICS, UNIV. OF CALIFORNIA, LOS ANGELES, CA 90024): ACCRETION RATE OF EXTRATERRESTRIAL MATTER: IRIDIUM DEPOSITED 33 TO 67 MILLION YEARS AGO SCIENCE VOL. 232, 1225-1229 (1986)
- LAURANCE,M.R. + BROWNLEE,D.E. (DEPT. OF ASTRONOMY, UNIV. OF WASHINGTON, SEATTLE, WA 98195): THE FLUX OF METEOROIDS AND ORBITAL SPACE DEBRIS STRIKING SATELLITES IN LOW EARTH ORBIT NATURE VOL. 323, 136-138 (1986)
- MAURETTE,M. + HAMMER,C. + BROWNLEE,D.E. + REEH,N. + THOMSEN,H.H. (LABORATOIRE RENE BERNAS, UNIVERSITE DE PARIS, PARIS, FRANCE): PLACERS OF COSMIC DUST IN THE BLUE ICE LAKES OF GREENLAND SCIENCE VOL. 233, 869-872 (1986)
- MCGILL,G.E. + SHRADY,C.H. (DEPT. OF GEOLOGY AND GEOGRAPHY, UNIV. OF MASSACHUSETTS, AMHERST, MA 01003): EVIDENCE FOR A COMPLEX ARCHEAN DEFORMATIONAL HISTORY: SOUTHWESTERN MICHIPICOTEN GREENSTONE BELT, ONTARIO PROCEEDINGS OF THE SEVENTEENTH LUNAR AND PLANETARY SCIENCE CONFERENCE, PART 1, JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 91, NO. B13, PAGES E281-289, NOVEMBER (1986)
- READ,W.F. (DEPT. OF GEOLOGY, LAWRENCE UNIV., APPLETON, WI 54912): POSSIBLE IMPACT SPHERULES FROM NEAR THE BASE OF THE MIDDLE ORDOVICIAN IN NORTHERN ILLINOIS METEORITICS VOL. 21, 251-262 (1986)
- RIDENOUR,G.S. (EARTH SCIENCES DEPT., NORTHEASTERN ILLINOIS UNIV., 5500 N. ST. LOUIS AVE., CHICAGO, IL 60625): EVIDENCE FOR SELECTIVE VOLATILIZATION AND IMPERFECT MIXING IN INDOCHINITES METEORITICS VOL. 21, 271-281 (1986)
- ROCCHIA,R. + BOCLET,D. + BONTE,P. + CASTELLARIN,A. + JEHANNO,C. (SERVICE D'ASTROPHYSIQUE, CEN SACLAY, 91190 GIF SUR YVETTE, FRANCE): AN IRIDIUM ANOMALY IN THE MIDDLE-LOWER JURASSIC OF THE VENETIAN REGION, NORTHERN ITALY PROCEEDINGS OF THE SEVENTEENTH LUNAR AND PLANETARY SCIENCE CONFERENCE, PART 1, JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 91, NO. B13, PAGES E259-E262, NOVEMBER (1986)

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Monday, March 16, 1987

VENUS TECTONIC STYLES, SURFACE STRUCTURES, AND GEOLOGIC HISTORY
8:30 a.m. Gilruth 104

Schaber G.G. Shoemaker E.M. Kozak R.C.
Is the Venusian Surface Really Old?

Plaut J. Arvidson R.
Spatial Distribution of Circular Features on Venus

Masursky H.
Geologic Evolution of Coronae (Complex Circular Features) on Venus

Stofan E.R. Head J.W. Parmentier E.M.
Corona Structures on Venus: Models of Origin

Crumpler L.S. Head J.W.
Bilateral Topographic Symmetry Across Aphrodite Terra, Venus

Head J.W. Crumpler L.S.
Evidence for Topographic Rises, Fracture Zones, Topographic Symmetry, Central
Rift Zones, Transform Faults, and Crustal Spreading: Aphrodite Terra, Venus

Kozak R. C. Schaber G. G.
A Spreading Center on Venus?

Vorder Bruegge R.W. Head J.W. Campbell D.B.
Maxwell Montes, Venus: Geological Unit Map from Arecibo and Venera Data
Sets and Evidence of Deformation History

Zuber M. T. Parmentier E. M.
Venus Tectonics: On the Relationship of Isostatic Topography to the
Wavelengths of Surface Deformational Features

Grimm R.E. Solomon S.C.
Viscous Relaxation of Impact Crater Relief on Venus: Constraints on Crustal
Thickness and Thermal Gradient

Clark P.E. Jurgens R.F. Kobrick M.
Characterization of Venus Subdued Terrains with Ground-based Radar-derived Data

Wood C. A. Francis P.
Venus Lives! (probably)

POSTER PRESENTATIONS

Bindschadler D. Head J.W.
The Parquet Terrain of Venus: Geology and Surface Properties

Burke K. Sharpton V.L. Kennedy J.W.
Circular Structures of Diverse Origins in China: A Possible Resemblance to
Northern Venus

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Crumpler L.S. Head J.W.
Regional Linear Cross-strike Discontinuities in the Western Aphrodite
Highlands, Venus

Senske D.A. Head J.W.
Characterization of the Venus Equatorial Highlands Using Pioneer Venus
Imaging Mode Data

Stofan E.R. Head J.W. Campbell D.B. Zisk S.H. Bogomolov A.F.
Rzhiga O.N. Basilevsky A.Y. Armand N.
Nature and Sequence of Volcanic and Tectonic Activity in Beta Regio, Venus

Sukhanov A.L.
Parquet on Venus: Areas of Regional Deformations

Sukhanov A.L.
Ridged Belts on Venus: Compression or Extension?

Sukhanov A.L.
"Spiders" on Venus: Ring Complexes

Monday, March 16, 1987
CARBONACEOUS CHONDRITES: INCLUSIONS AND MATRIX
 8:30 a.m. Gilruth Gym

Nagahara H. Nagasawa H. Nakamura N. Matsui T.
 HN3-1 (Type B-1 CAI) Formed From Isotopically and Chemically Heterogeneous
 Interstellar Minerals and Condensates of the Solar System by Incomplete Melting

Nakamura N. Nagasawa H.
 Rare Earth Distribution in the Allende Ca-Al Rich Inclusion HN3-1

MacPherson G. J. Crozaz G. Lundberg L. L.
 Rare Earth Element Distribution in a Complex Type B1 Allende Inclusion,
 an Ion Microprobe Study

Wark D.A. Boynton W.V.
 Origin of Rims-II: The Evidence from Refractory Metals, Major Elements
 and Mineralogy

Boynton W.V. Wark D.A.
 Origin of CAI Rims-I: The Evidence from the Rare Earth Elements

Paque J.M.
 CaAl407 from Allende Type A Inclusion NMNH 4691

Davis A.M. MacPherson G.J. Hinton R.W. Laughlin J.R.
 An Unaltered Group I Fine-Grained Inclusion from the Vigarano
 Carbonaceous Chondrite

Beckett J.R. Stolper E.
 The Stability of Hibonite in Silicate Melts: Implications for the Origin
 of Hibonite-bearing Inclusions from Carbonaceous Chondrites

Blum J. D. Armstrong J. T. Hutcheon I. D. Wasserburg G. J.
 Fremdlinge and the Cooling of CAI: Observational and Experimental Constraints
 from the Coexistence of NiFe and RuOs

Morioka M.
 Diffusion Coefficients of Cations and Oxygen in Synthesized Single Crystal
 Melilites and Their Implications to the Thermal History of Allende CAI

Kuehner S. M. Grossman L.
 Petrography and Mineral Chemistry of Spinel Grains Separated from the
 Murchison Meteorite

McSween H.Y., Jr.
 Matrix Compositions in Antarctic and Non-antarctic CM Carbonaceous Chondrites

Zolensky M.E.
 Tochilinite in C2 Carbonaceous Chondrites: A Review with Suggestions

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 Experimental Studies of Pre-Solar Grain Analogs

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 A37 - A Coarse-grained, Volatile Element-poor Ca, Al-Rich Inclusion with
 Huge Fremdlinge

Fisenko A.V. Ignatenko K.I. Ljul A.Yu. Lavrukhina A.K.
 A Metal Particle in Ca, Al-rich Inclusion from the Efremovka CV Chondrite

Lavrukhina A.K. Ljul A.Yu. Kolesov G.M.
 Occurrence of Sc-Rich Phases in the Kainsaz CO Carbonaceous Chondrite

Liu Y.-G. Rajan R.S. Schmitt R.A.
 Mokoia Ca-Al Inclusions (CAIs) with Negative and Positive Ce
 Anomalies-Interim Report 2

Liu Y.-G. Schmitt R.A.
 A Chemical Study of KABA (CV3 Chondrite) Inclusions

Burgess R. Wright I.P. Pillinger C.T.
 Evidence for Hydrothermal Alteration in Meteorites of Higher Petrologic Type

Gooding J. L. Zolensky M. E.
 Thermal Stability of Tochilinite

Nazarov M. Brandstatter F. Ulyanov A. A. Kolesov G. M. Kurat G.
 Metal-Rich CAI's in Efremovka (C3)

Monday, March 16, 1987
IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS
8:30 a.m. Gilruth 206

- Grieve R.A.F. Goodacre A.K.
Is There a Significant Periodic Signal in the Terrestrial Cratering Record?
- Hildebrand A. R. Boynton W. V.
The K/T Impact Excavated Oceanic Mantle: Evidence from REE Abundances
- Bohor B.F. Triplehorn D.M.
Flyash: An Analysis for Spherules in K-T Boundary Clays
- Fehn U. Teng R. Elmore D. Kubik P. W. Gove H. E.
Use of Accelerator Mass Spectrometry for the Determination of Osmium Isotopes
- Kyte F.T. Zhou L. Wasson J.T.
Recent Evidence on the Nature of the Late Pliocene Impact Event
- Jehanno C. Boclet D. Bonte Ph. Castellarin A. Rocchia R.
Unusual Cosmic Grains in a Jurassic Hardground
- Siben W.
The Duolun Impact Crater, China
- Robertson P. B. Grieve R. A. F. Alexopoulos J. Coderre J.
Shock Metamorphism at the Vredefort Structure, South Africa: Evidence for a Single Shock Event
- Reimold W. U.
Fracture Density Statistics Along Radial Traverses Through the Crystalline Basement of the Vredefort Dome, South Africa
- Reimold W. U. Jessberger E. K. Stephan T.
A Multi-stage, Long-term Evolution of the Vredefort Dome, South Africa - as Suggested by ^{40}Ar - ^{39}Ar Dating of Pseudotachylite
- Deutsch A.
The Sr Isotope System in Geological Samples Shocked up to 60 GPa
- Wasson J.T.
A Multiple-Impact Origin of Southeast Asian Tektites
- Glass B. P.
Coesite Associated with North American Tektite Debris in DSDP Site 612 on the Continental Slope off New Jersey

POSTER PRESENTATIONS

- Esat T. M. Taylor S. R.
Mg Isotopic Composition of Microtektites and Flanged Australite Buttons
- Koeberl C. Beran A.
Water Content of Tektites and Impact Glasses and Related Chemical Studies
- Alexopoulos J. Grieve R. A. F. Robertson P. B.
Microscopic Lamellar Deformation Features in Quartz from Different Geologic Environments
- Glass B.P. Burns C.A.
A New Term is Needed to Distinguish Impact Ejecta in the Form of Glassy Spherules Containing Primary Crystallites from Microtektites
- Bohor B.F. Foord E.E.
Magnesioferrite from a Nonmarine K-T Boundary Clay in Wyoming
- O'Keefe J. D. Ahrens T. J.
Meteorite Impact and the Extinction of Solar Radiation
- PRESENTED BY TITLE ONLY
- Valter A. A. Burmistrova V. V. Sharkin O. P.
Fe-Cr-Ni Inclusion in the Shock-metamorphosed Quartzite of the Terny Astrobleme
- Raihklia A.I. Kirikov A.D. Kozlov V.S.
Fe³⁺ in Impact Glasses and Tektites
- Glazovskaya L.I. Parfenova O.V.
Petrochemical Specific Features of the Logoisk Crater Glasses
- Badjukov D.O. Lobitzer H. Nazarov M.A.
Quartz Grains with Planar Features in the Triassic-Jurassic Boundary Sediments from Northern Limestone Alps, Austria
- Nazarov M.A. Badjukov D.O. Barsukova L.D. Alekseev A.S.
Amount of Extraterrestrial Material in the K/T Boundary Sediments
- Anufriev G.S. Boltenkov B.S. Kapitonov I.N. Usacheva L.V.
Barsukova L.D. Nazarov M.A.
Cretaceous-Tertiary Event: Noble Gases in Turkmenia K/T Boundary Sediments
- Badjukov D.O. Nazarov M.A. Alekseev A.S.
The K/T Event: Amount of the Crater Ejecta and the Possible Impact Site
- Beutsch A. Teufel S. Metzler-Ferling A.
Isotope Systematics in Crystalline Clasts of Shock Stage I - III from the Polymict Breccia of the Haughton Crater, Canada

Zhou L. Kyte F.T.
Noble Metals and Other Siderophile Elements at the Precambrian-Cambrian Boundary at Zunyi, Guizhou, China

Garvin J.B. Blodget H.W.
Suspected Impact Crater near Al Madafi, Saudi Arabia

Murty S. V. S. Shukla P. N. Goel P. S.
Nitrogen and Trace Elements in Muong Nong Tektites and Irghizites: Clues to Tektite and Impactite Formation

Reimold W. U. Bairr J. M. Grieve R. A. F. Tredoux M.
INAA and Rb-Sr Isotope Analysis of Lake St. Martin Melt and Country Rocks

Durrheim R. J. Reimold W. U.
Evidence for 36 m.y. and 90 m.y. Periodicities in the Terrestrial Cratering Record

Monday, March 16, 1987
VENUS INTERIOR, MODELS, AND SURFACE GEOCHEMISTRY
1:30 p.m. Gilruth 104

Basilevsky A. T. et al
Venera 15/16: New Understandings and Doubts

Bills B. Kobrick M.
Venus Topography: A Reappraisal

Bindschadler D.L. Parmentier E.M.
Tectonic Features Due to Gravitational Relaxation of Topography

Kiefer W. S. Hager B. H.
Mantle Plumes on Venus

Arvidson R. E. Elachi C. Kwok R. Curlander J.
Saunders R. S.
Simulation of Venera and Magellan Radar Images From SEASAT Data

Greeley R. Marshall J. R. Pollack J. B.
Venus: Compositional and Mechanical Effects from Windblown Grains

Garvin J.B. Bryan W.B.
Venus Surface Compositions: Implications from Terrestrial Geochemical Analogies

Zolotov M.Yu. Khodakovskiy I.L. Westrum E.F., Jr.
Stability of Scapolites on Venus Surface

Majewski E.
Nonequilibrium Thermodynamics of Processes at the Inner - Outer Core Boundary in the Venus' Interior

Slade M.A. Zohar S. Jurgens R.F.
Venus: Improved Spin Vector from Goldstone Radar Observations

POSTER PRESENTATIONS

Grimm R.E. Solomon S.C.
Limits on Modes of Lithospheric Heat Transport on Venus From Impact Crater Density

Liu H.S.
Convective Stress Field in Venus

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Parmentier E.M. Stofan E.R. Head J.W.
A Finite Amplitude Necking Model for the Formation and Evolution of Rift Zones: Application to the Beta Regio Rift

Zolotov M.Yu.
Redox Conditions on Venus Surface

Shkuratov Yu.G. Kreslavsky M.A. Nikolayeva O.V.
Diagram Albedo-Color of Venus Surface According to Venera 13 Data

Monday, March 16, 1987
SESSION A - CARBONACEOUS CHONDRITES, CHONDRULES, AND THE NEBULA
1:30 p.m. Gilruth Gym

Kring D.A.

Fe, Ca-rich Rims around Magnesian Chondrules in the Kainsaz (CO3) Chondrite

Palme H. Fegley B.

Formation of FeO-Bearing Olivines in Carbonaceous Chondrites by High Temperature Oxidation in the Solar Nebula

Hua X. Adam J. Palme H. El Goresy A.

Fayalite-rich Rims Around Forsteritic Olivines in CAIs and Chondrules in Carbonaceous Chondrites: Types, Compositional Profiles and Constraints of Their Formation

Clayton R.N. Mayeda T.K. Rubin A.E. Wasson J.T.

Oxygen Isotopes in Allende Chondrules and Coarse-grained Rims

Rubin A.E. Wasson J.T.

Chondrules and Matrix in the Ornans CO3 Chondrites: Possible Precursor Components

Kurat G. Palme H. Brandstatter F. Huth H.

Allende-AF: Undisturbed Record of Condensation, Accretion, and Metasomatism

Koeberl Ch. Ntaflos Th. Kurat G. Chai C. F.

Petrology and Geochemistry of the Ningqiang (CV3) Chondrite

POSTER PRESENTATION

Matsui T. Tajika E.

Fragmentation Process of Allende Meteorite During Its Atmospheric Passage

Rubin A. E. Wang D. Klemmeyn G. W.

The Ningqiang Carbonaceous Chondrite and the Origin of Aggregational and Granoblastic Chondrules

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Heymann D. Read N.W.

Raman Study of Carbon in Allende

Van der Stap C.C.A.H. Heymann D. Vis R.D. Verheul H.

Carbon in Dark Clasts of Allende

Shkuratov Y.G. Stankevick N.P. Antipova-Karataeva I.I.

On Spectral Albedo of Phobos and Deimos in UV-Range

Baryshnikova G.V. Stakheeva S.A. Lavrentjeva Z.A. Ignatenko K.I.

Lavrukhina A.K.

Chondrules in the Kainsaz CO Chondrite: Mineral Composition and Assemblages; Comparison with the Allende CV and Ordinary Chondrite Chondrules

Ljul A.Yu. Kolesov G.M. Lavrukhina A.K.

Elemental Composition of Chondrules from the Murray CM Chondrite

Kashkarova V.G. Kashkarov L.L. Baryshnikova G.V. Lavrukhina A.K.
Thermoluminescence in Separated Chondrules in the Kainsaz CO Chondrite

SESSION B - SPACE UTILIZATION

Arnold J.R.

Ice at the Lunar Poles Revisited

Lucey P.G. Roush T.R. Owensby P.D. Blaney D.

A Search for Water on the Moon at the Reiner Gamma Formation, A Possible Comet Impact Site

Gibson E. K. Jr. Bustin R. Skaugset A. Carr R. H. Wentworth S. J. McKay D. S.

Hydrogen Distributions in Lunar Materials

Suitor J. W. Schroeder J. E. Steinbacher R. H.

The Development of a Zirconia Cell for Generating Oxygen from the Martian Atmosphere

Stephenson L. D. Smith A. Rigsbee J. M. Hock V. F.

Development of Space-Based Containerless Coating Processes

Meek T.T. Vaniman D.T. Blake R.D. Godbole M.J.

Sintering of Lunar Soil Stimulants Using 2.45 GHz Microwave Radiation

POSTER PRESENTATION

Agosto W. N.

Lunar Volatiles: More than Meets the Eye?

Winisdoerffer F. Brown J. Ximenes S.

Project LEAP: Lunar Ecosystem and Architectural Prototype

Fielder J. Leggett N.

Lunar Agricultural System Design Considerations

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Meier T. A.

Geometrically-Arrayed, Instrument-Carrying Elevated Cable Systems for Investigating Inaccessible Regions of the Lunar Surface

Monday, March 16, 1987

IMPACT PHENOMENA: THEORY AND EXPERIMENTATION
1:30 p.m. Gilruth 206

O'Keefe J. D. Ahrens T. J.
Impact Crater Maximum Depth of Penetration and Excavation

Holsapple K. A. Choe K. Y.
Impact Spall as a Mechanism for Surface Material Ejection

Mizutani H. Kawakami S. Takagi Y. Naide T. Hayakawa M.
Scaling Law of Impact Fragmentation and Coagulation

Melosh H.J. Hillgren V.
A Finite Element Study of Multiring Basin Tectonics

Schultz P. H.
Impact Velocity and Changes in Crater Shape, Morphology, and Statistics

Crawford D. Schultz P. H.
Electromagnetic Emissions from Low Angle Hypervelocity Impacts

Schultz P. H. Crawford D.
Impact Vaporization by Low-angle Impacts

Morgan T.H. Potter A.E. Zook H.A.
Impact Driven Supply of Sodium and Potassium to the Atmosphere of Mercury

Gerasimov M.V. Satovsky B.L. Mukhin L.M.
Mass-Spectrometrical Analyses of Gases Originated During Impulsive
Evaporation of Meteorites and Terrestrial Rocks

Polanskey C. A. Ahrens T. J.
Shocked Calcite from an Explosion Crater - Electron Paramagnetic Resonance

Tyburczy J. A. Ahrens T. J.
Effect of Shock on the Kinetics of Thermally-induced Dehydration of Serpentine

Boslough M.B. Cygan R.T.
Shock-enhanced Dissolution of Silicate Minerals: An Important Planetary
Surface Process

Heymann D. Celluchi T.A. Boyer H.
Raman Studies of Shocked Dunite, Enstatite, and Augite

POSTER PRESENTATION

Heymann D. Boyer H.
Raman Study of Experimentally Shocked Plagioclase

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Heymann D.
Raman Spectra of Carbon in the Canyon Diablo Iron Meteorite

Ahrens T. J. O'Keefe J. D.
Loss of the Earth's Atmosphere from Giant Impacts

Lang B. Franaszczuk K.
Fracture Cascade for a Meteorite at Atmospheric Entry: Canyon Diablo,
Odessa and Wolf Creek Irons

Schultz P. H. Gault D. E.
Transition Diameters for Crater Shape in Laboratory Experiments and on Planets

Schmidt R.M.
Preliminary Scaling Results for Crater Rim-Crest Diameter

Gerasimov M.V.
On the Release of Oxygen from the Intensively Shocked Meteorites and
Terrestrial Rocks

Tuesday, March 17, 1987
SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGD) AND FUTURE LUNAR EXPLORATION
8:30 a.m. Gilruth 104

Schmitt H. H. [Invited Talk]
A Field Geologist's Return to the Moon

Sturms F. M. Jr.
Lunar Geoscience Observer Mission Overview

Drake M. J.
Lunar Geoscience Orbiter and the Origin of the Moon

Taylor G. J.
The Lunar Geoscience Observer's Role in Unraveling the Magmatic Evolution
of the Moon

Hood L. L.
Contributions of an LGO Mission to the Solution of Lunar Geophysical Issues

Haskin L. A.
Toward Geochemical Prospecting for Lunar Ores

Spudis P. D. Hawke B. R.
The Use of Basin Ejecta to Determine Lunar Crustal Structure and
Composition: Current Models and LGO Contributions

Pieters C. M.
Stratigraphy and Evolution of the Lunar Highland Crust: A Sampling of
Vertical and Regional Heterogeneities

Fairchild K. O. Roberts M. L. Templin K. C.
Design and Engineering of Lunar Science Experiments: The Importance of
Getting an Early Start

Reedy R. C. Drake D. M. Feldman W. C. Haines E. L. Metzger A. E.
Coupled Neutron/Gamma-Ray Spectroscopy from Lunar Orbit

Garvin J. B. Bufton J. L. Abshire J. B. Zuber M. T.
Laser Altimetry in Planetary Geology

POSTER PRESENTATIONS

Wallace R. A.
LGO Mission and Science Summary

Meberg B. A. Fuldner W. V. Maehl R. C.
Lunar Geoscience Observer Spacecraft

Tuesday, March 17, 1987
HALLEY AND COMET EXPLORATION
8:30 a.m. Gilruth Gym

Weissman P.
Post-perihelion Brightening of Halley's Comet: Spring Time for Halley

Colwell J.E. Jakosky B.M.
The Evolution of Topography on a Comet

Moroz V. Combes M. Bibring J.P. Coron N. Crovisier J. Encrenaz T.
Crisco J.F. Sanko N. Grigoriev A. Bockelee-Morvan D. Gispert R.
Emerich C. Lamarre J.M. Rocard F. Krasnopolsky V. Owen T.
Detection of Parent Molecules in the 2.5-5 μ m Spectrum of Comet Halley with
the IKS-Vega Experiment

Eberhardt P. Hodges R. R. Kruskalovsky D. Berthelier J. J.
Schulte W. Dolder U. Lammerzahl P. Hoffman J. H. Illiano J. M.
The D/H and 180/160 Isotopic Ratios in Comet Halley

Jessberger E.K. Kissel J.
Bits and Pieces from Halley's Comet

Grun E.
Dust Emission of Comet Halley as Observed by In Situ Experiments

Mukhin L.M. Evlanov E.N. Fomenkova N.N. Khromov V.N. Kissel J.
Prilutsky O.F. Zubkov B.V. Sagdeev R.Z.
Different Types of Dust Particles in Halley's Comet

Langevin Y. Kissel J. Bertaux J.-L. Chassefiere E.
Impact Ionization Mass Spectrometry of Cometary Grains on Board Giotto,
Vega 1 and Vega 2 Spacecrafts: Preliminary Statistical Analysis of Spectra
in Compressed Modes

Clark B. C. Mason L. W. Kissel J.
Coma Particle Type Occurrences: Evidence for Chemical Heterogeneity in
Comet Halley

Brownlee D.E. Wheelock M.M. Temple S. Bradley J.P. Kissel J.
A Quantitative Comparison of Comet Halley and Carbonaceous Chondrites at
the Submicron Level

Albee A. L. Bradley J. G.
SEMPA--A Scanning Electron Microscope and Particle Analyzer for the CRAF Mission

Ahrens T. J. Begemann F. Brownlee D. E. Campins H. Chang S.
Coradini A. Eberhardt P. Festou M. Grun E. Harris A. W.
Langevin Y. McDonnell J. A. M. Pillinger C. T. Schwehm G.
Stoffler D. Wanke H. Wasserburg G. J. West R. M. Wood J. A.
The Comet Nucleus Sample Return Mission

POSTER PRESENTATIONS

McKay C. P.

The Role of Comets in the Prebiological Evolution of the Early Solar System

Stern S.A.

Cometary Capture Rates and Extra-Solar Oort Cloud Encounters

McFadden L. A. A'Hearn M. F. Feldman P. D.

Variable Activity at Comet Halley March 23-25, 1986: IUE Observations

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Korina M.I. Nazarov M.A. Barsukova L.D. Suponeva I.V. Kolesov G.M.

Kolesnikov E.M.

Iridium Distribution in the Peat Layers from Area of Tunguska Event

Tsou P. Bernatowicz T. Burnett D. Chutjian A. Eberhart P.

Mawhorter R. Neugebauer M. Albee A.

Passive Hypervelocity Noble-Gas Capture Experiments

Wood C. A.

Rotation Periods of Halley's and Other Comets

Hartmann W.F. Cruikshank D.P. Tholen D.J.

Comets and Dark Asteroids: An Update

Tuesday, March 17, 1987
MARS GEOLOGY AND GEOMORPHOLOGY
8:30 a.m. Gilruth 206

Frey H. Semeniuk J. A. Tokarcik S.

Common Age Resurfacing Events in the Elysium-Amazonis Knobby Terrain on Mars

Maxwell T.A. McGill G.E.

Ages of Fracturing and Resurfacing Along the Martian Dichotomy Boundary
Between Nepenthes and Nilosyrtis Mensae

McGill G. E.

Topography Buried Beneath the Plains of Utopia and Elysium, Mars

Watters T. R.

The Volcanic Plains Ridges of the Chryse and Amazonis Depressions

Borrello M. C.

Surficial and Structural Analysis of Large Patterned Fractures in Southern
Acidalia Planitia, Mars

Tanaka K. L. Davis P. A.

History and Morphology of Faulting in the Noctis Labyrinthus-Claritas
Fossae Region of Mars

Edgett K. Zimbelman J.R. Branstrator J.W.

The Geology of Pavonis Mons, Mars

Lucchitta B.K.

History of Valles Marineris

Wichman R. Schultz P. H.

Volcanic and Tectonic Evolution of Martian Impact Basins

Grizzaffi P. Schultz P.H.

Evidence for a Thick Transient Layer in the Isidis Impact Basin

Rossbacher L.A. Melendrez D.

Fracture Patterns on Earth and Mars: Pattern Genesis and Analysis

Bougan S.J. Leff C. Maxwell T.

Spectral and Thermal Characteristics of the Southeastern Amenthes Region, Mars

POSTER PRESENTATIONS

Barlow N. G.

A Revised Martian Relative Age Chronology and some Geologic Implications

Cattermole P.

The Geological Evolution of Alba Patera, Mars

De Hon R.A.

Striped Plains of Acidalia, Mars

Frey H. Semeniuk J. A.

Resurfacing in the Transition Zone in Eastern Mars: Evidence for Variation
in Efficiency of Plains Formation

Grant J.A. Schultz P.H.
Possible Intense Vortex Tracks on Mars

McEwen A. S.
Mars as a Planet

McGill G.E.
Relative Ages of Faulting, Mesa Development, and Polygonal Terrane, Eastern Utopia Planitia, Mars

Plescia J.B.
Late-stage Flood Lavas in the Elysium Region, Mars

Raitala J. T.
Circular Mare Ridges

Raitala J. T.
Highland Wrinkle Ridges on Mars

Strickland E. L.
Color/Albedo Provinces and Surficial Units of the Central Equatorial Region of Mars: Definitions and Methods

Strickland E. L.
Latitude and Altitude Dependent Dust Opacity Variations and Their Effects on Martian Surface Observations

Zimbelman J. R. Leshin L. A. Edgett K. S. Skinner S.
High-resolution Thermal Inertias at Equatorial Latitudes on Mars

Zimbelman J. Mouginis-Mark P. J.
A Possible Volcanic Component in the Fine-Grained Materials Near Alba Patera, Mars

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Aubele J. C. Crumpler L. S.
The Significance of Block Size and Pit Diameter in Rocks at the Viking Lander Sites, Mars

Breed C. S. Davis P. A. McCauley J. F.
Accretion mantles on Mars: New Model for Viking Lander Site Characteristics and Implications for Mars Observer

Breed C.S. McCauley J.F. Davis P.A.
Ripple Blankets: Geomorphic Evidence for Regional Sand Sheet Deposits on Mars

Roth L. E. Saunders R. S. Thompson T. W.
Modification Styles of the Martian Impact Craters

Tanaka K. L. Scott D. H.
Eruptive History of the Elysium Volcanic Province of Mars

Wilhelms D. E. Baldwin R. J.
Uplands/Knobby-Terrain Relation on Mars

Tuesday, March 17, 1987
LUNAR MARE BASALTS AND GEOLOGY
1:30 p.m. Gilruth 104

Neal C.R. Taylor L.A. Lindstrom M.M.
Mare Basalt Evolution: The Influence of KREEP-like Components

Neal C.R. Taylor L.A. Lindstrom M.M.
Very High Potassium (VHK) Basalt Petrogenesis: The Role of Granite and KREEP Components

Vetter S. Shervais J.
Petrology of Mare Basalt and Highland Clasts from Breccia 15498

Ryder G. Steele A.
Apollo 15 Olivine-Normative Mare Basalts: New Chemical Analyses, Chemical Dispersion, and Chemical Relationships

Hughes S.S. Delano J.W. Schmitt R.A.
Integrated Petrogenetic Models of Apollo 15 Yellow/Brown Glass, Green Glass and Olivine Mare Basalt, Consistent with the Magma Ocean - Cumulate Hypotheses

O'Keefe J.A. Ganapathy R.
Nickel-Iron Spherules in a Lunar Glass Sphere

Golombek M. P. Franklin B.
Physiographic Constraints on the Origin of Lunar Wrinkle Ridges

Coombs C.R. Hawke B.R.
Geologic and Remote Sensing Studies of Rima Hazard: Early Results

Craddock R. A. Greeley R.
Thickness and Volume of Mare Tsiolkovsky, Lunar Farside

Farrand W. H.
Vertical Vs. Lateral Mixing of Highland Materials and Minimum Basalt Thickness in Northern Mare Fecunditatis

Sullivan R.
Quantitative Evaluation of Ballistic Sedimentation

Jaumann R. Neukum G.
New Spectrophotometric Studies of the Lunar Surface: Distribution and Composition of Lithologic Units

Campbell B.A. Zisk S.H. Thompson T.W. Mouginis-Mark P.J.
Surface Scattering Properties from Lunar Radar Polarization Data

Heifenstein P. Veverka J.
Photometric Properties of Lunar Terrains Derived from Hapke's Equation

POSTER PRESENTATION

Shaw D. Middleton T.
Lunar Boron: A Preliminary Study

Zisk S. H. Mousginis-Mark P. J. Pettengill G. H. Thompson T. W.
New Very-High-Resolution Lunar Radar Measurements at 3.0cm Wavelength: Initial Maps of the Hadley/Apollo 15 Area

Engel S. Neukum G. Jaumann R. Nagel E.
Lunar Light Plains: Ages and Composition

Hawke B.R. Coombs C.R.
Remote Sensing of the Rima Hyginus Region of the Moon

Coombs C.R. Hawke B.R. Gaddis L.R.
Explosive Volcanism on the Moon

Thompson T. W.
Ultra-High Resolution Radar Mapping of the Moon at 70 cm Wavelength

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Neal C.R. Taylor L.A.
Lunar Granite: An Enigma with a New Perspective

Delano J.W. Hughes S.S. Verplanck D.L. Schmitt R.A.
Multi-element Abundances of Individual Mare Volcanic Glasses by Collaborative Electron Microprobe and Neutron Activation Analyses: Interim Report 2

Simon S.B. Papike J.J.
Petrology of a Low-titanium Mare Basalt from Apollo 16 Regolith Breccia 60255

Schreiber H. D. McManus K. K. Settle S. A.
Oxidation-Reduction Chemistry in Diopside-Albite Melts

Okano O. Watson E.B. Tatsumoto M.
Partition Coefficients for REE and Hf Between Zircon and Liquid: Inferences for Lunar Granite Petrogenesis

Sharpton V. L.
Onset of Tectonic Rille Development in Southern Mare Serenitatis: Evidence for Incomplete Pre-mare Isostatic Compensation?

Crown D. A. Greeley R.
Structural Control of Lunar Sinuous Rilles in the Orientale Basin

Blount G. Greeley R.
Lunar Rotation and the Distribution of Dark-Halo Pyroclastic Deposits: A Cause for Asymmetric Ejecta Patterns

Williams J. G. Newhall X. X. Dickey J. O.
Lunar Science from Lunar Laser Ranging

Raitala J. T.
Thrust and Strike-Slip Faulting in Mare Ridge Tectonics

Schultz R. A.
Why Do Lunar Normal Faults Propagate Upward?

Rodionova Zh.F. Shevchenko V.V. Karlov A. A. Smolyakova T. F.
The Density Distribution of Lunar Craters of Different Degrees of Rim Sharpness and Completeness

Tuesday, March 17, 1987
NUCLEOSYNTHESIS: ISOTOPIC ANOMALIES
1:30 p.m. Gilruth Gym

Clayton D.D.
Cosmic Chemical Memory of 48Ca/50Ti Correlation

Liffman K. Clayton D.
Stochastic Models of Refractory Interstellar Dust

Niemeyer S.
Ti Isotopes in Allende and Chainpur Chondrules and in the Kaidun Breccia

Ireland T.R.
Correlated Morphological, Chemical, and Isotopic Systematics From Murchison (C2M) Hibonites

Clayton R.N. Mayeda T.K. MacPherson G.J. Grossman L.
Oxygen and Silicon Isotopes in Inclusions and Chondrules from Vigarano

Fahey A.J. Goswami J.N. McKeegan K.D. Zinner E.K.
More Isotopic Measurements in CM Hibonites: Carbon, Oxygen and Silicon

Thiemens M.H. Meagher O.
Demonstration of a Mass Independent Isotopic Fractionation in CO Reaction

Prombo C.A. Hashimoto A. Birck J.L. Lugmair G.W. Grossman L.
Search for Correlated Isotopic Effects in Allende CAIs: II. Comparison with Mineralogical Data

Brigham C. A. Papanastassiou D. A. Hutcheon I. D. Armstrong J. T.
Wasserburg G. J.
FUN Anomalies in Purple, Spinel-Rich Refractory Inclusions

Papanastassiou D. A. Brigham C. A.
FUN Isotopic Anomalies: Reincarnation in Purple Refractory Inclusions

Birck J.L. Prombo C.A. Lugmair G.W.
Ni and Cr Isotopes in Allende Inclusions

Fahey A.J. Zinner E.K.
Determination of the Fe Isotopic Ratios in Terrestrial Minerals and a Lance Hibonite-Hercynite Inclusion

Molini-Velsko C. A. Mayeda T. K. Clayton R. N.
Silicon Isotope Systematics During Distillation

Papanastassiou O. A. Wasserburg G. J.
Rayleigh Distillation Constraints on Mg Isotopic Compositions

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Fisenko A.V. Karpenko S.F. Semjonova L.F. Ljalykov A.V.
Spiridonov V.G. Shukolyukov Yu.A. Kavrukhina A.K.
Neodymium in HNO₃- and HClO₄ Soluble Fractions from the Efremovka CV Chondrite

Tuesday, March 17, 1987
THE OUTER SOLAR SYSTEM
1:30 p.m. Gilruth G206

Lee S.W. Crown D.A. Lancaster N. Greeley R.
Observations of Industrial Sulfur Flows: Implications for Io

Goguen J. Matson D. Sinton W. Howell R. Dyck M. Veeder G.
Johnson T. Nelson R. Lane A. McLaren R.
Locations, Temperatures and Areas of Io's Hot-Spots from Multi-Color Infrared Photometry of Occultations

Roush T.L. Singer R.B. McCord T.B.
The Spectral Reflectance, 0.6 to 4.3 μm, of Particulate Mineral-Water Ice Mixtures

Kargel J. S.
Density and Viscosity Measurements of NH₃-H₂O Liquids

Thomas P.J. Schubert G.
Non-Newtonian Ice Rheology and the Retention of Craters on Ganymede

Golombek M.P. Banerdt W.B.
Early Thermal Profiles of Ganymede and Callisto

Golombek M. Banerdt B.
Failure Strength of Icy Lithospheres

Murchie S.L. Head J.W.
Evidence for the Existence of Major Shear Zones on Ganymede

Schenk P. M. McKinnon W. B.
Dark Ray and Dark Floor Craters on Ganymede

Janes D.M. Melosh H.J.
Surface Tectonics from Sinker Induced Mantle Convection: Application to Miranda

Croft S. K.
Miranda Geology and Tectonics: A Non-catastrophic Interpretation

Thomas P.J. Reynolds R.T. Squyres S.W. Cassen P.M.
The Viscosity of Miranda

Strom R.G.
The Solar System Cratering Record: Voyager 2 Results at Uranus and Implications for the Origin of Impacting Objects

Wednesday, March 18, 1987
 MARS AND OTHER REMOTE SENSING
 8:30 a.m. Gilruth 104

Francis P.
 Variability in Spectral Signatures of Terrestrial Ignimbrites and Implications for Volcanology on Mars

Christensen P.R. Luth S.J.
 Thermal-infrared Spectral Observations of Martian Candidate Materials in Emission

Salisbury J. W. Walter L. S. Vergo N.
 Library of Mineral and Rock Spectra in the Thermal-Infrared (2.1-25.0 μm): Implications for Observations of Fine Particulate Planetary Surfaces

Walter L.S. Salisbury J.W. Vergo N.
 Spectral Variations in the Thermal Infrared Reststrahlen Band of Silicates

Blaney D.L. McCord T.B.
 Telescopic Observations of Mars: A Search for Carbonates and Other Salts in the 4 μm Region

Blaney D.L. Walsh P.A. McCord T.B.
 Laboratory Spectral Measurements of Palagonite-Salt Mixtures in the Visible and Near Infrared -- Implications for Mars

Agresti D. G. Newcomb J. A. Morris R. V.
 Mossbauer Study of Ultramicrocrystalline Hematite

Morris R. V. Lauer H. V. Jr. Murali A. V. Agresti D. G.
 Newcomb J. A.
 Ultramicrocrystalline Hematite: Properties and Occurrence on the Martian Surface

Burns R.G.
 Gossans on Mars: Spectral Features Attributed to Jarosite

Bruckenthal E.A. Singer R.B.
 Spectral Effects of Dehydration on Phyllosilicates

Arvidson R. E. Dale-Bannister M. A.
 Mixing Patterns in Viking Orbiter Color Image Data for the Equatorial Region of Mars

Blount G. Greeley R. Lancaster N. Christensen P. R. Arvidson R.
 Aeolian Mixing and the Identification of Active Sand Surfaces on the Earth and Mars

POSTER PRESENTATIONS

Eluszkiewicz J. Leliwa-Kopystynski J.
 A Model of the Porous Structure of Icy Satellites

Greeley R. Craddock R. A. Crown D. A. Leshin L. A. Schaber G. G.
 Global Geologic Mapping of Io

Zimbelman J.R. Burke K.
 Triple-junction Rifting and Detachment Surfaces near the Pele Volcano on Io

Croft S. K.
 Tectonism and Volcanism in Ganymede's Dark Terrain

Wu S.S.C. Schafer F.J. Jordan R. Howington A.E.
 Topographic Map of Miranda

Thomas P.
 Limb Topography of Uranian Satellites

PRESENTED BY TITLE ONLY

Kargel J. S.
 Mass Distributions in Minimum Mass Models of the Jovian, Saturnian, Uranian, and Solar Nebulae

Strobell M.E. Masursky H.
 New Features Named on the Moon and Uranian Satellites

Croft S. K. Kargel J. Lumine J. I.
 Equations of State of Ammonia-water Liquid: Planetological Implications

Dolginov Sh.Sh.
 On the Problem of Uranus Magnetic Field

Horner V. M. Greeley R.
 Ganymede and Callisto: Impact Crater Ejecta Types

Murchie S.L. Head J.W.
 Origin and Evolution of Furrows in the Dark Terrain of Ganymede

Murchie S.L. Head J.W.
 Shear Zones on Ganymede: Global Nature and Effect on Grooved Terrain Formation

Murchie S.L. Head J.W.
 A Preliminary Process-oriented Geologic History for Ganymede

Plescia J.B.
 Cratering History of Miranda

Thompson T. W.
Goldstone Radar Observations of Mars: The 1986 Opposition

Armand N. A.
Radar Experiment for the Phobos Mission

POSTER PRESENTATIONS

Smith M. O. Adams J. B. Guinness E. A. Arvidson R. E.
Viking Orbiter Multispectral Images Linked to Lander Images and
Laboratory Analogs

Presley M.A. Arvidson R.E. Christensen P.R.
Characterization of Surficial Units in the Central Equatorial Region

Roush T.L. Singer R.B. McCord T.B.
Reflectance Spectra of Selected Phyllosilicates from .6 to 4.6μm

Roush T.L. Singer R.B. McCord T.B.
Reflectance Spectra of Selected Mafic Silicates from .6 to 4.6μm

Nedell S. S. McKay C. P.
Possible Formation of Carbonates in Ancient Lakes in the Valles Marineris,
Mars: A Search of the Mariner 6/7 IRS Dataset

Yon S.A. Pieters C.M.
Specular Reflections and the Nature of Particle Surface Interactions

Wu S.S.C. Howington A.E.
Digital Presentation of Mars Topography

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Pike R. J.
Toward Geometric Signatures for Planetary Terrain: An Assessment of
Earth at 1:24,000 Scale

Pike R. J.
Information Content of Planetary Terrain: Varied Effectiveness of Parameters
for the Earth

Calvin W.M. Jakosky B.M. Christensen P.R.
A Model of Diffuse Radar Scattering from Martian Surface Rocks

Wednesday, March 18, 1987
PLANETARY DIFFERENTIATION AND CRUSTAL GENESIS
8:30 a.m. Gilruth Gym

Kato T. Irihara I. Ringwood A.E.
Experimental Constraints on the Early Differentiation of the Earth's Mantle

Knittle E. Jeanloz R.
The Melting of Metallic FeO to Over 100 GPa: Implications for Core
Temperature and Composition

Anderson W. W. Ahrens T. J. Svendsen B.
Melting in the Fe-FeS System and its Relation to the Compositions of
the Cores of Earth and Mars

Klock W. Palme H.
Partitioning of Siderophile and Chalcophile Elements between Metal, Sulfide,
Olivine, and Glass in a Naturally Reduced Basalt from Disko Island, Greenland

McDonough W.F. Sun S.S. Ringwood A.E. Jagoutz E.
Rb and Cs in the Earth and Moon

Jones J.H. Delano J.W.
A Three Component Model for the Bulk Composition of the Moon

Bertka C.M. Holloway J.R.
Partial Melting of An Anhydrous Martian Mantle

Elihon D.
Composition and Petrogenesis of Parental Komatiite Liquids

Morrison D. A. Phinney W. C. Maczuga D. E.
Archean Anorthosites: Constraints on the Accumulation Process

Haskin L. A. Dymek R. F. Korotev R. L.
Nearly Pure Plagioclase Anorthosites: Lunar and St. Urbain

Salpas P. A. Haskin L. A. McCallum I. S.
Trace Element Distributions Among Subunits of A Stillwater Anorthosite Boulder

Nutman A.P. Fryer B.J. Bridgwater D.
The Origin and Significance of the Earliest Archean Nuttiak (Supracrustal)
Assemblage, Northern Labrador

Kusky T.M. Kidd W.S.F. De Paor D.G. Simpson C. Isachsen C.
Bradley D.C. Bradley L.
On the Possible Ophiolitic Origin of Some Slave Province Greenstone Belts

POSTER PRESENTATIONS

Elthon D.
Cryptic Variation in Cumulate Dunites from Blow Me Down Mountain, Newfoundland

Elthon D.
Partitioning of Ni Between Olivine and High MgO Basaltic Liquids

Ashwal L.D. Burke K.
Types and Characteristics of Terrestrial Anorthosites

Pyle B. R. Neal C. R. Taylor L. A.
Ancient Oceanic Crust Subducted Beneath the Kaapvaal Craton: The Genesis of Eclogites in Kimberlites

Phinney W. C. Morrison D. A. Maczuga D. E.
Anorthosites: An Analog Study

Gomez-Moran C. Elthon D.
Geochemistry of Crustal Xenoliths from Xalapasco de la Joya (State of San Luis Potosi, Mexico)

Anderson W. W. Campbell A. J. Ahrens T. J.
Melting of Iron Sulfide and Iron Oxide at High Pressure

Warren P.H. Jerde E.A. Kellemeyn G.W.
Estimated Average Siderophile Element Contents of the Pristine Lunar Crust

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Yakovlev O.I. Markova O.M. Manson B.M.
The Role of Vaporization and Dissipation Processes in the Lunar History

Korotaev M.J. Nikishin A.M.
Formation Models of Sialic Matter and Problem of Crust Composition for the Terrestrial Planets

Lucey P.G. Hawke B.R.
Speculations on the Possible Compositional Layering of the Upper Ten Kilometers of the Lunar Crust

McCallum I.S.
The Parental Magmas of the Stillwater Complex

Moralev V. M. Glukhovsky M. Z.
Giant Circular Structures in the Precambrian Shields as Evidences of Early Crust-forming Processes on the Terrestrial Planets

Selivanovskaya T.V.
Petrochemical Trends of Crystallized Impact Melts

Gardner J. E. Haskin L. A. Brannon J. C.
Possible Assimilation by a Mafic Magma: The Endion Sill, Duluth, Minnesota

Wednesday, March 18, 1987
COSMIC DUST
8:30 a.m. Gilruth 206

Robin E. Jehanno C. Maurette M. Hammer C.
A Micrometeorite "Spectrum" for the Mass Distribution of Well Preserved Greenland Cosmic Dust Grains

Bonte Ph. Jehanno C. Maurette M. Robin E.
A High Abundance and Great Diversity of "Unmelted" Cosmic Dust Grains on the West Greenland Ice Cap

Webb S.J. Zolensky M.E.
Characterization of Interplanetary Dust Particles from Antarctic Ice Samples

Bibring J-P. Surkhov Y. A. Borg J. Langevin Y.
Salvetat P. Vassent B.
The Comet Experiment: First Results

Rietmeijer F.J.M.
Chondritic Interplanetary Dust and Primitive Chondrite Matrices: The Search for Chemically Pristine Solids in the Solar System

Bradley J. P. Brownlee D. E.
Fine-grained Matrices of Chondritic Interplanetary Dust Particles (IDP's)

Blake D. F. Bunch T. E. Mordinly A. J.
AEM Characterization of Phases in a Hydrated IDP

Blanford G.E. VerPloeg K.T. McKay D.S.
Microbeam Analysis of Interplanetary Dust Particles for Major Elements, Oxygen and Carbon

Flynn G.J. Sutton S.R.
First Cosmic Dust Trace Element Analyses with the Synchrotron XRF Microprobe

Nier A.O. Schlutter D.J. Brownlee D.E.
Helium and Neon Isotopes in Extraterrestrial Particles

McKeegan K.D. Swan P. Walker R.M. Wopenka B. Zinner E.
Hydrogen Isotopic Variations in Interplanetary Dust Particles

Esat T. M. Taylor S. R.
Mg Isotopic Composition of Some Interplanetary Dust Particles

Wopenka B.
Raman Observations of Individual Interplanetary Dust Particles

Walker R.M.
Are IDPs and Halley Dust Similar and, if so, So What?

POSTER PRESENTATIONS

Flynn G.J.

Earth Encounter Velocities and Exposure Ages of IDPs from Asteroidal and Cometary Sources

Robin E. Bonte Ph. Jehanno C.

A Search for a Relationship between Greenland Cosmic Dust

Zook H. A.

The Velocity Distribution and Angular Directionality of Meteoroids that Impact on an Earth-Orbiting Satellite

Tsou P. Peng S. T. J. Albee A. L.

Hypervelocity Intact Capture in Multiple-Layer Films

PRESENTED BY TITLE ONLY

Reedy R. C.

Cosmogenic Nuclide Production in Small Metallic Spherules

Rietmeijer F.J.M.

Silicone Oil: A Persistent Contaminant in Chemical and Spectral Microanalyses of Interplanetary Dust Particles

Rietmeijer F.J.M.

Formation of High-temperature Minerals by Annealing of Amorphous, Low-temperature Anhydrous Chondritic Interplanetary Dust

Jehanno C. Maurette M. Robin E.

Fe/Ni Cosmic Dust Grains: A Comparison of the Greenland and Deep-Sea Collections

Wednesday, March 18, 1987

MARS CHANNELS AND VOLATILES

1:30 p.m. Gilruth 104

Tanaka K. L. MacKinnon D. J.

Development of the Chryse Hydrologic System, Mars

Carr M.H. Wu S.S.C. Jordan R. Schafer F.J.

Volumes of Channels, Canyons, and Chaos in the Circum-Chryse Region of Mars

De Hon R.A.

Eastern Lunae Planum Outflow Complex: Analogy to Overbank Flooding

MacKinnon D.J. Tanaka K.L.

Nirgal Vallis Basin: Some Questions on Fluvial and Regolith History

Craddock R. A. Greeley R. Christensen P. R.

Martian Outflow Channels: IRTM and Visual Observations

Gulick V.C. Baker V.R.

Origin and Evolution of Valleys on Martian Volcanoes: The Hawaiian Analog

Mouginis-Mark P.J. Zimbelman J.R.

Channels on Alba Patera, Mars: Evidence for Polygenic Eruptions

Jones H.-P.

Large Fossil Mud Lakes or Giant Mud Sheet Floods in Syrtis Major (Isidis Planitia) and Mare Australe, Mars

Zent A.P. Fanale F.P. Postawko S.E.

Mars: Detection of Regolith H₂O Sources from Space

Jakosky B.M.

Sublimination of Water from the Residual North Polar Cap on Mars

Haberle R. M. Jakosky B. M.

Transport of Water From the Residual North Polar Cap on Mars

Costard F. Dollfus A.

Thermokarstic Evolution of Impact Craters on Mars

POSTER PRESENTATIONS

Hart H.M. Jakosky B.M.

Vertical Distribution of Water Vapor in the Atmosphere of Mars: Error Analysis and Preliminary Results

Clifford S. M.

Theoretical Equilibrium Profiles of the Martian Perennial Polar Caps

Wednesday, March 18, 1987
 EUCRITES AND ASSOCIATES
 1:30 p.m. Gilruth Gym

Yanai K., Kojima H.
 Japanese Collection of Antarctic Meteorites

Beckett J.R., Stolper E.
 Constraints on the Origin of the Eucriotic Melts: An Experimental Study

Longhi J., Pani V.
 Olivine/Low-Ca Pyroxene Liquidus Relations and Their Bearing on Eucriote Petrogenesis

Tera F., Carlson R.W., Bector N.
 Isotopic and Petrologic Investigation of the Eucriotes Cachari, Moore County, and Stannern

Paul R.L., Lipschutz M.E.
 Volatile/Mobile Trace Elements in Eucriotes-I. Antarctic/Non-Antarctic Comparisons

Jovanovic S., Reed G.W., Jr.
 Mg-Geothermometry Applied to Achondritic Meteorites

Wohrmeyer C., Stoffler D.
 Polymict Impact Breccias on the Eucriote Parent Body: II. Accessory Minerals in Lithic Clasts and Breccia Matrix of Eucriote - Howardite Meteorites

Metzler K., Stoffler D.
 Polymict Impact Breccias on the Eucriote Parent Body: I. Lithic Clasts in Some Eucriotes and Howardites

Takeda H., Aoyama T.
 Mineralogy of New Lithic Clasts in Polymict Eucriotes and Possible Crystallization of Diogenite from a Eucriotic Melt

Berkley J.L.
 Petrology and Compositional Trends in Five New Antarctic Diogenites

Hewins R. H.
 The Howardite Parent Body: Composition and Crystallization Models

Schultz L.
 Exposure Ages of Basaltic Achondrites and Implications for the Stratigraphy of Their Parent Body

Mittlefehldt D.W.
 Petrogenesis of Mafic Lithologies in Mesosiderites

Warren P.H., Kallemeyn G.W.
 A Trio of Meteoritic Dunites, and New Data for Shergotty

POSTER PRESENTATIONS

Agosto W. N.
 P-FeO Systematics as an Indicator of Genetic Environment in the Basaltic Achondrite Group

Schutt J., Cassidy W. A., Fessler B. W.
 AMLAMP (Antarctic Meteorite Location and Mapping Project): A Progress Report

Sutton S.R., Delaney J., Smith J.V., Prinz M.
 Trace Element Contents of Eucriotic Plagioclase Determined by Synchrotron X-ray Fluorescence

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Okulewicz S.C., Delaney J.S.
 Petrography of EET 83212,7, and EET 83229,7: A Comparison of 2 New Howardites

Khisina N.R., Petushkova L.V., Skripnik A.Y., Nazarov M.A., Zabalueva E.V.
 Thermal History of Eucriotes: Model Based on Pyroxene Geospeedometry

Wednesday, March 18, 1987
EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMPONENTS
1:30 p.m. Gilruth 206

Harper C. L.
Geochronology, Time-asymmetry and the Foundations of Quantum Mechanics

Harper C. L.
Comparative Resolutions of Possible Time Variations in the Weak Interaction
Coupling Constant from Geochronology, Oklo and Primordial Nucleosynthesis

Lee T.
Inferences on the Evidence for Extinct Mn-53

Spivack A. J. Gnaser H. Beckett J. R. Measures C. I.
Hutcheon I. D. Wasserburg G. J.
The Abundance and Distribution of Be in Allende Inclusions

Pellas P. Perron C. Bourot-Denise M. Fieni C. Ghelis M.
Crozaz G.
Very High Track-Densities in Forest Vale (H4) Merrillites: Was Cm248 Alive
in the Early Solar System?

Chen J. H. Wasserburg G. J.
A Search for Evidence of Extinct Lead 205 in Iron Meteorites

Papanastassiou D. A. Ngo H. H. Wasserburg G. J.
Sm-Nd Systematics in Coarse-Grained Refractory Inclusions from Allende

Bernatowicz T.J. Hagee B.E. Fahey A.J.
Isotopic Fractionation of Kr and Xe Implanted in Solids at Very Low Energies

Ozima M. Zashu S.
Solar Type He and Ne in Diamonds

Lewis R. S. Ming T. Wacker J. F. Steel E.
Interstellar Diamonds in Meteorites

Epstein S. Krishnamurthy R. V. Cronin J. R. Pizzarelli S. Yuen G. U.
Compositions of Hydrogen, Nitrogen and Carbon of Amino Acids and Carboxylic
Acids from the Murchison Meteorite

Becker R.H.
Heavy Nitrogen in the Bells Carbonaceous Chondrite

Kerridge J.F. Shipp R. Chang S.
Isotopic Characterisation of Kerogen-like Material from the Murchison
Carbonaceous Chondrite

Huss G.R.
Partial Evaporation of Pre-Solar Dust: The Mechanism of Fe/Silicate and
Oxygen Isotopic Variation in Chondrites?

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Lavrukhina A.K. Shukolyukov Yu.A. Vu Minh D. Lavrenteva Z.A. Stakheeva S.A.
The Isotopic Composition of Xe in Mineral Phases of the Pillistfer EL6 and
ADHI KOT EH4 Enstatite Chondrites

Wednesday, March 18, 1987
SPECIAL SESSION - THE ONSET OF ACCRETION
7:30 p.m. Gilruth 104

INVITED TALKS

Cassen P.M.
Star Formation and the Protoplanetary Nebula

Mysen B.
Phase Relations Relevant to Nebular Condensation

Donn B.
Grain Formation and Accretion: Initial Stages

McKinnon I.
Accretion of Grains: Evidence from IDP's

Weidenschilling S.J.
Collisional and Gas Dynamics of Accretion

Scott E.R.D. Taylor G.J.
Accretionary Processes: Clues from Chondrites

Wood J.A.
Was Chondritic Material Formed During Large-Scale, Protracted
Nebular Evolution or by Transient Local Events in the Nebula?

Thursday, March 19, 1987.
 SNC METEORITES
 8:30 a.m. Gilruth 104

Strickland E. L.
 Mars-Rocks on Phobos?, and a Possible Solution to the SNC Meteorite Abundance Problem

Gooding J. L. Wentworth S. J. Zolensky M. E.
 Martian (?) Calcite and Gypsum in Shergottite EETA79001

Wright I.P. Grady M.M. Pillinger C.T.
 Carbonates in EETA 79001: Terrestrial or Martian?

Solberg T.C. Burns R.G.
 Iron Oxidation State and Weathering Studies of SNC and Other Antarctic Meteorites

Treiman A.H.
 Geology of the Nakhelite Meteorites: Cumulate Rocks from Flows and Shallow Intrusions

Swindle T.D. Garrison D. Hohenberg C.M. Olinger C.T.
 Xenon and Argon in Nakhla and Lafayette: Evidence for Multiple "Martian" Components

McKay G. Wagstaff J. Le L. Lindstrom D. J.
 Colson R. O.
 Whitlockite/Melt Partitioning and Henry's Law: Shergottite Late-Stage Minerals

Nyquist L. Horz F. Wiesmann H. Shih C.-Y. Bansal B.
 Isotopic Studies of Shergottite Chronology: I. Effect of Shock Metamorphism on the Rb-Sr System

Nyquist L. Bansal B. Wiesmann H. Shih C.-Y. McKay G.
 Isotopic studies of Shergottite Chronology: II. Possible Effect of Contamination on the Sm-Nd System

Colson R.O. Nyquist L. McKay G. Horz F.
 Possible Isotopic Resetting Mechanisms in Shergottite Meteorites

Wiens R.C.
 CO₂ and Noble Gas Emplacement into Basalt by Artificial Shock; Relevance to EETA79001 Trapped Gas

Bogard D. Horz F. Johnson P. Jordan J.
 Further Studies on the Phenomenon of Shock-implanted Gases

Dreibus G. Wanke H.
 Water, Rare Gasses and Other Volatiles on Mars

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Carr R. H. Gibson E. K., Jr.
 A Laser Microprobe-Mass Spectrometric Study of an Alteration Product in the Shergottite EETA79001

O'Neill C. Ikeda Y. Delaney J. S.
 The Compositional Zoning of Feldspathic Phases in Allan Hills 77005, 32

Neville R.
 Phosphates in Shergottite and EETA79001: Geochemistry and Petrogenesis

Lambert Ph.
 SNC Meteorites: The Metamorphic Record

Thursday, March 19, 1987
THE SOLAR NEBULA AND PLANETARY ORIGINS
8:30 a.m. Gilruth Gym

Gradie J. C. Hayashi J. Zuckerman B. Epps H. Howell R.
Physical Properties of the Beta Pictoris Circumstellar Disk

Hartmann W. K.
A Satellite/Asteroid Mystery and the Primordial Scattering of C Asteroids
Through the Solar System

Wetherill G. W. Stewart G. R.
Factors Controlling Early Runaway Growth of Planetesimals

Greenberg R. Rizk B.
Incipient Runaway Growth of Planetesimals: Why the Biggest Bodies Were not
all the Same Size

Carusi A. Greenberg R. Valsecchi G.B.
Outcomes of Gravitational Encounters of a Planetesimal with a Planetary Embryo

Lissauer J. J. Greenzweig Y.
Protoplanet Accretion Rates in a Disk of Planetesimals with Low Random
Velocities

Cameron A. G. W. Benz W. Slattery W. L.
Planetary Collision Calculations: Origin of Mercury

Benz W. Cameron A. G. W. Slattery W. L.
Planetary Collision Calculations: Origin of the Moon

Kipp M.E. Melosh H.J.
A Numerical Study of the Giant Impact Origin of the Moon: The First Half Hour

Vickery A. M. Melosh H. J.
Orbital Evolution of the Vapor Jet from a Giant Impact

Taylor S.R.
Loss of Volatile Elements During Impact Events in Relation to Lunar
Composition and Origin

Newsom H. E. Drake M. J.
Formation of the Moon and Terrestrial Planets: Constraints from V, Cr, and
Mn Abundances in Planetary Mantles and from New Partitioning Experiments

Hinton R.W. Clayton R.N. Olsen E.J. Davis A.M.
Isotopic Mass Fractionation of Potassium in the Earth Compared to the Bulk
Solar System

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Weidenschilling S. J. Davis D. R.
Orbital Resonances in the Solar Nebula: Timescales and Resonance Widths

Hartmann W. K. Spaute D.
Modelling of Lunar Accretion

Pechernikova G.V. Vitjazev A.V. Schmidt O. Yu.
Erosion of Mercury Silicate Shell During Its Accumulation

Vitjazev A. V. Perchernikova G. V. Schmidt O. Yu.
When Was the Gas Removed From the Zone of Terrestrial Planets?

Thursday, March 19, 1987
 LUNAR AND ASTEROIDAL REGOLITHS
 8:30 a.m. Gilruth 206

Wieler R. Baur H. Benkert J.P. Pedroni A. Signer P.
 Noble Gases in the Meteorite Fayetteville and in Lunar Ilmenite Originating from
 Solar Energetic Particles

Jordan J. Barrett R. A. Bogard D. D. McKay D. S.
 Rare Gas and Petrological Studies of Disaggregated Size Separates of the
 Fayetteville Meteorite Breccia

Eugster O. Niedermann S.
 Trapped Xe Isotopically Different from Modern Solar Wind Xe in Lunar Breccia
 60018 and Black Glass 74001

Laurenzi M. A. Turner G.
 Laser Probe 39Ar-40Ar Dating of Impact Melt Glasses in Lunar Breccia 15466

Basu A. Gerke T. McKay D. S.
 Monomineralic Fragments in the 90-150 Micron Fraction of Soils in the
 Apollo 15 Drill Core Sections 15007/8 from Station 2

Korotev R. L. Morris R. V. Lauer H. V. Jr.
 Composition and Maturity of the Van Serg Crater Core (Section 79002)

Wentworth S. J. McKay D. S.
 Ancient Apollo 16 Regolith Breccias: Glass Populations and High Mg' Glass

Boschelli L. J. McKay D. S.
 Differential Volatilization of Lunar Impact Glass Using Raleigh Fractionation
 Modeling

Delano J. W. Bouska V. Randa Z.
 Geochemically Inferred Redox State in the Source-Materials of Terrestrial
 Impact Glasses

See T. H. Horz F. Cintala M. J. Smrekar S. Cardenas F.
 Formation of Agglutinate-like Particles in an Experimental Regolith

Cintala M. J. Horz F. See T. H. Cardenas F.
 The Evolution of Experimental Regoliths: Effects of Impact Velocity

Horz F. See T. H. Cintala M. J. Cardenas F.
 Experimental Regolith Studies: The Effects of Initial Fragment Size on
 Communition Behavior

Cashore J.
 Further Development of Monte Carlo Modeling of Lunar Megaregolith Thickness

POSTER PRESENTATION

Potter D. K. Stephenson A.
 The Use of Anhysteretic and Rotational Remanent Magnetizations in Detecting
 Fine Iron Particles

Basu A. McKay D. S.
 Petrologic Observations on the Apollo 15 Drill Core 15007/8

Schwarz C.
 Preliminary Description of Double Drive Tube 79002/79001

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Cimbalaikova A. Frait Z. Rode O. D. Zemicik T.
 Comparative Studies of Luna 16, 20 and 24 Regoliths by Means of Magnetic
 Resonance and Mossbauer Spectroscopy

Gibson E. K., Jr. Bustin R.
 Hydrogen Abundances vs Depth in the Lunar Regolith: Results From an
 Apollo 15 Double Drive Tube and Deep Drill Core

Heavilon C. Basu A.
 Compositions of Glass Fragments in Apollo 16 Regolith Breccias

Simon S. B. Papike J. J. Laul J. C. Hughes S. S. Schmitt R. A.
 Apollo 16 Regolith Breccias and Soils: Comparative Petrology and Chemistry

Wentworth S. J. McKay D. S.
 Glasses in Apollo 15 Regolith Breccias

Thursday, March 19, 1987
LUNAR HIGHLANDS
1:30 p.m. Gilruth 104

Korotev R. L. Haskin L. A.
Does the Lunar Crust Have a Europium Anomaly?

Warren P.H. Jerde E.A. Morris R.V.
"New" Lunar Regolith Breccias; An Enigmatic Ferroan Anorthosite from Apollo 14

James O.B.
Magnesian Members of the Lunar Ferroan Anorthosite Suite

Lugmair G.W.
The Age of the Lunar Crust: 60025 + Methuselah's Legacy

Lindstrom M. M. Marvin U. B.
Geochemical and Petrologic Studies of Clasts in Apennine Front Breccia 15459

McGee J. J.
Petrologic Evaluation of the Components of Granulitic Breccia 67215

Dasch E.J. Nyquist L.E. Ryder G. Steele A.M. Wiesmann H. Bansal B.M.
Shih C.-Y.
Age of A15 Norites

Simon S.B. Papike J.J.
Petrology of the Apollo 15 Apennine Front II: Impact Melt Rocks

Laul J. C.
Chemistry of the Apollo 15 Apennine Front: Highland Lithologies

Takeda H. Mori H. Tagai T. Miyamoto M.
Mineralogy of Dominant Clasts in Lunar Regolith Breccia 60019 and Comparison
to Yamato Lunar Meteorites

Haskin L. A. Lindstrom D. J.
Modeling the Effects of Breccia Fragment Size on Identification of Parent
Rock Type, Based on a Stillwater Anorthosite Boulder

Haskin L. A. Lindstrom D. J.
Modeling the Effects of Breccia Fragment Size on Perceived Rock Compositions

Lucey P.G. Hawke B.R.
Criteria for the Remote Detection of Pristine Rock Using Near Infrared
Reflectance Spectroscopy

Lucey P.G. Hawke B.R.
Probable Outcrops of Mg-Gabbronorite in the Lunar Highlands Detected by
Near-Infrared Reflectance Spectroscopy

POSTER PRESENTATIONS

Ryder G. Lindstrom M. Willis K.
A Test of the Accuracy of the Preliminary Macroscopic Identification of Lunar
Coarse-Fine Particles: INAA and Petrographic Studies of 2-4 mm Particles
from the Apennine Front

Miura Y.
Different Formation Processes of the Moon, the Earth and Meteorites

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Neal C.R. Taylor L.A. Lindstrom M.M.
Petrology and Geochemistry of Highland Clasts from Apollo 14 Breccias 14303,
14305, 14321

Korotev R. L.
Composition of Magnetic and Nonmagnetic Fractions of Noritic Impact Melt
Breccias from Apollo 16

Simon S.B. Papike J.J.
Petrology of the Apollo 15 Apennine Front II: Plutonic Rocks and KREEP Basalts

Bernstein M.L.
15445 and 15455: Results of ^{39}Ar - ^{40}Ar Age Dating

Takahashi K. Masuda A.
Ce Anomaly in Lunar Highland Samples: An Examination From REE Abundances and
Rb-Sr Systematics for Lunar Meteorites

Takahashi K. Masuda A.
A Rb-Sr Age of an Impact Melted Sample in Lunar Meteorite

Ringwood A.E.
Gordian Knots and Lunar Origin

Seifert S. Ringwood A.E.
Metal-Silicate Partition Coefficients for Some Volatile Siderophile Elements
and Implications for Lunar Origin

Lucey P.G. Hawke B.R.
Characterization of Mineralogical Changes with Longitude on the Lunar
Nearside Based on Spectral Reflectance Measurements

Thursday, March 19, 1987
 ASTEROIDS AND COMETS
 1:30 p.m. Gilruth Gym

- Stern S.A.
 Two Important Mechanisms Contributing to Cometary Evolution in the Oort Cloud
- Patterson C.W.
 Three-body Resonance Trapping and the Asteroid Belt
- Oberst J.
 On the Stability of "Meteorite Swarms" in Resonant Orbits - A Preliminary Study
- Binzel R. P.
 The Koronis Family: Possible Evidence for a Recent Catastrophic Disruption
- Shoemaker E. M. Wolfe R. F.
 Crater Production on Venus and Earth by Asteroid and Comet Impact
- Wetherill G.W.
 Ratio of Asteroidal Impact Rates on Mars and Earth
- Wood C. A.
 Phobos and Deimos: Comets, Asteroids or Left Over Pieces of Mars?
- McFadden L. A. Vilas F.
 The 3:1 Kirkwood Gap as Sources of Ordinary Chondrites: Perspectives from Spectral Reflectance
- Gaffey M.J. Ostro S.J.
 Surface Lithologic Heterogeneity and Body Shape for Asteroid (15) Eunomia:
 Evidence from Rotational Spectral Variations and Multi-color Lightcurve Inversions
- Aoyama T. Hiroi T. Miyamoto M. Takeda H.
 Absorption Spectra and Bulk Chemical Compositions of Achondritic Polymict Breccias with Reference to Characterization of the Surface of Vesta-like Asteroids
- Gradie J. C. Tedesco E. F.
 1986 DA and 1986 EB: Iron Objects in Near Earth Orbits
- Britt D.T. Pieters C.M.
 Effects of Small-Scale Surface Roughness on the Bidirectional Reflectance Spectra of Nickel-Iron Meteorites

POSTER PRESENTATIONS

- Oberst J. Nakamura Y.
 Lunar Seismic Impact Clusters - Evidence for the Presence of "Meteorite Streams"
- Stooke P. J. Keller C. P.
 Morphographic Projections for Maps of Non-spherical Worlds
- Gaffey M.J.
 Instrumental Requirements and Observational Strategies for Spectrophotometric Data Acquisition during a CRAF-type Asteroid Flyby
- Zeigler K. W.
 Gila Observatory: Serious Solar System Research at the High School Level
- PRESENTED BY TITLE ONLY
- Tholen D.J. Bell J.F.
 Evolution of Asteroid Taxonomy
- Miyamoto M.
 Diffuse Reflectances 0.25 to 25 μm of an Enstatite Chondrite and Implications for Surface Minerals of M-type Asteroids
- Hartmann W.F. Tholen D.J. Cruikshank D.P.
 Studies of Trojan and Hilda Asteroids Lightcurves
- Harris A. W.
 Fourier Analysis of Asteroid Lightcurves: Some Preliminary Results

Thursday, March 19, 1987
SESSION A - UREILITES AND IRON METEORITES
1:30 p.m. Gilruth 206

Delaney J. S. Prinz M.
ALH82106/130 and the Fractionation of Augite-Bearing Ureilites

Prinz M. Weisberg M. K. Nehru C. E. Delaney J. S.
EET 83309, A Polymict Ureilite: Recognition of a New Group

Grady M.M. Pillinger C.T.
The EET 83309 Polymict Ureilite: Its Relationship to Other Ureilites on the Basis of Stable Isotope Measurements

Ogata H. Takeda H. Ishii T.
Interstitial Ca-Rich Silicate Minerals in the Yamato Ureilites with Reference to Their Origin

Goodrich C.A. Jones J.H.
Complex Igneous Activity on the Ureilite Parent Body

Kracher A. Benjamin T.M. Duffy C.J. Rogers P.S.Z.
Partitioning of Ga into Chromite, and Consequences for Iron Meteorite Formation

Van der Stap C.C.A.H. Heymann D. Vis R. Verheul H.
Simultaneous Measurements of C, Ni, and P in the Toluca and Algarobbo Iron Meteorites

Kowalik J.A. Williams D.B. Goldstein J.I.
Formation of the Lamellar Structure in Group IA and IIICD Iron Meteorites

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Migdisova L.F. Yaroshevsky A.A. Zaslavskaya N.I.
Sulfide Nodules of Burkhalta Iron Meteorite

Prinz M. Weisberg M. K. Nehru C. E. Delaney J. S.
Bencubbin, Kakangari, Tucson and Renazzo: A Speculative Connection Between Some of Their Major Components

SESSION B - COSMIC RAYS

Evans J.C. Reeves J.H. Reedy R.C.
Solar Cosmic Ray Produced Radionuclides in the Salem Meteorite

Nishiizumi K. Imamura M. Kohl C. P. Nagai H. Kobayashi K. Yoshida K.
Yamashita H. Reedy R. C. Honda M. Arnold J. R.
¹⁰⁸Be Profiles in Lunar Surface Rock 68815

Lavielle B. Marti K. Simonoff G.
Cosmic-ray-produced Kr in Core Samples of the St. Severin Meteorite

Eugster O.
Lunar Meteorites Y-82192 and Y-82193: Identical Cosmic-Ray Exposure History and Terrestrial Age

Rajan S. Lugmair G. W.
Neutron Capture Effects in Asteroidal Regoliths

Englert P.A.J.
Cosmogenic Radionuclides in H-Chondritic Meteorite Finds

Reedy R. C.
Solar-Proton-Produced Nuclides in Meteorites

Nishiizumi K. Klein J. Middleton R. Arnold J. R.
Long-Lived Cosmogenic Nuclides in the Derrick Peak and Lazarev Iron Meteorites

Vanzani V. Sartori S. Tuniz C. Stievano B. M. Marzari F.
Effects of the Solar System Oscillations about the Galactic Plane on the Cosmogenic Nuclide Production in Meteorites

Friday, March 20, 1987
 PLANETARY GEOLOGIC PROCESSES (GENERAL)
 8:30 a.m. Gilruth 104

- Clark B. C. Thornton M.
 Continuous Geochemical Surface Monitor and Hazard Detector for a Mars Rover
- Feldman W. C. Drake D. M. O'Dell R. D. Brinkley F. W. Jr. Anderson R. C.
 Gravitational Effects on Mars Neutron Spectra
- Drake D. M. Feldman W. C. Reedy R. C. Jakosky B. M.
 Neutron Mode of the Mars Observer Gamma Ray Spectrometer
- Horstman K.C. Melosh H.J.
 Experimental Drainage Pits as Possible Analogues to Structures on Phobos
- Balogh S. Pieri D. Plescia J. Davis P.
 Profiles of Lava Flows at Alba Patera, Mars
- Moore H.J.
 The 1984 Mauna Loa Eruption and Planetary Lava Flows
- Head J.W. Wilson L.
 Magma Migration and Hawaiian-style Eruptions in Shield Volcano Rift Zones; the Pu'u 'O'o Eruptive Episodes, Kilauea East Rift, Hawaii
- Murali A. V. Mahoney J. J. Macdougall J. D. Deshmukh S. S. Blanchard D. P.
 Chemical and Isotopic Systematics of Deccan Traps, Western India: Evidence of Cyclic Volcanism and Discrete Magma Sources
- Boudreau A.E. McCallum I.S.
 Numerical Model of Fine-Scale Igneous Layering
- Williams S. H. Greeley R.
 Particle Speed and Concentration in the Saltation Cloud: Full Saltation Development and Choking
- Woronow A.W. Love K.M.
 A Statistical Study of Mercurian Crater Classes Applied to the Emplacement of the Intercrater Plains

POSTER PRESENTATIONS

- McKinnon W. B.
 Spherical-Shell vs. Flat-Plate Mascon Loading Models for Caloris
- Plescia J.B. Golombek M.P.
 Planetary Wrinkle Ridges - Low-Angle Thrust Faults

- Spudis P. D. Guest J. E.
 Paleogeologic Maps of Mercury's Surface
- Mazierski P. F.
 The Geology of Pine and Crater Buttes: A Basaltic Plains Volcanism Planetary Analog Study
- Mustard J.F. Pieters C.M.
 Variations in Composition of Kimberlite Dike Matrix Examined with Mapping Spectrometer Data
- PRESENTED BY TITLE ONLY
- Grant J.A. Schultz P.H.
 A Possible Volatile-Rich Air-Fall Deposit in the Electris Region of Mars
- Plescia J.B.
 Geology and Cratering History of Ariel
- Plescia J.B.
 Cratering History of Umbriel, Titania, and Oberon
- Davies A.G. Wilson L.
 Photoclinometric Determination of Surface Topography and Albedo Variations on Io
- Butler J.C.
 The Graphical Analysis of Mixing Relationships - Ratio:Ratio Plots
- Skobeleva T.P.
 Some Peculiarities of Mercurian Crater Distribution and the Research of Craters with Intersecting Rims
- Blount G. Barbera P. Pappalardo R. Posin S. Watts A.
 The Occurrence of Seismically-Disrupted Antipodal Terrains

Friday, March 20, 1987
ORDINARY CHONDRITES
8:30 a.m. Gilruth Gym

- Bell J.F. Keil K.
Spectral Alteration Effects in Chondritic Gas-Rich Breccias: Implications for S-Class and Q-Class Asteroids
- Swindle T. D. Grossman J. N.
³⁶Xe Studies of Semarkona Chondrules: Dating Alteration
- Steele I.M. Smith J.V.
Mineralogic Evidence for Pre-chondrule Nebular Conditions
- Brearley A.J. Scott E.R.D. Taylor G.J. Keil K.
Transmission Electron Microscopy of Graphite-Magnetite Aggregates in the Sharpshooter (H3) Chondrite
- Brannon J.C. Podosek F.A. Lugmair G.W.
Strontium, Neodymium and Plutonium in Chondritic Phosphates
- Fogel R.A. Hess P.C. Rutherford M.J.
Compositional Homogeneity and Heterogeneity in High Grade Enstatite Chondrites
- Guimon R.K. Lofgren G.E. Sears D.W.G.
Thermoluminescence Properties of Synthetic Feldspars: Implications for Chondrite Thermal Histories
- Dehart J.M. Lofgren G.E. Sears D.W.G.
Electron-Microprobe and Cathodoluminescence of Glasses in Type 3 Ordinary Chondrites: Relevance to Metamorphism and Aqueous Alteration
- Kurat G.
The OC Puzzle: Pre- and Synaccretionary Processes Offer a Solution
- Misawa K. Nakamura N.
The Hedjaz Meteorite: REE Abundances in Chondrules and Lithic Fragments
- Luzius-Lange D. Palme H.
Trace Elements in Single Mineral Grains from Silicate Inclusions in the Landes Meteorite
- Lofgren G. E.
Dynamic Crystallization Experiments on Chondrule Melts of Porphyritic Olivine Composition: Effect of Annealing at 1200 and 1000 C on Major and Minor Element Zoning and Concentration
- Radomsky P. M. Hewins R. H.
Dynamic Crystallization Experiments on an Average Type I (MgO-Rich) Chondrule Composition

POSTER PRESENTATIONS

- Hasan F.A. Haq M. Sears D.W.G.
Thermal Stability of Thermoluminescence in a Type 5 and Type 3.4 Ordinary Chondrite
- Haq M. Hasan F.A. Sears D.W.G.
Thermoluminescence of Inclusions from the Cumberland Falls Meteorite
- Hartmetz C.P. Sears D.W.G.
Thermoluminescence and X-ray Diffraction Studies of Annealed Oligoclase
- Kashkarov L.L. Genaeva L.I. Kalinina G.V. Lavrukhina A.K.
Nuclear-Tracks of VH-group Solar Cosmic Rays in the Ordinary Chondrite Samples
- Miyamoto M.
Constraints on Cooling Histories of Ordinary Chondrites as Inferred from Chemical Zoning of Porphyritic Olivine
- Lofgren G. E.
Dynamic Crystallization Experiments on Chondrule Melts of Porphyritic Olivine Composition: Petrographic Comparison of Natural and Experimentally Produced Chondrules
- Fugzan M. M. Ivanova M. A. Skripnik A. Ya. Schukolyukov Yu. A.
Age of Different Chondrules of Elenovka Meteorite
- Hutson M.L.
A Closer Look at the Significance of Chemical Variations in Enstatite Chondrites
- Nagamoto H. Nishikawa Y. Misawa K. Nakamura N.
REE, Ba, Sr, RB and K Characteristics of Chondrules from the Tieschitz (H3) Chondrite
- Nagahara H.
Chondrules and Type B-1 CAIs Formed by the Same Heating Event
- Ivanov A.V. Ulyanov A.A. Ustinov V.I. Shukolyukov Yu.A.
The Kaidun Meteorite: Oxygen Isotopic Composition
- Alexeev V.A. Malishev V.V. Lavrukhina A.K.
Spallogenic Mn-53 in Some Meteorites
- Alexeev V.A.
Statistics of Meteorite Falls

Friday, March 20, 1987
 PLANETARY PHYSICS
 8:30 a.m. Gilruth 206

- Mao H. K. Finger L. Hazen R. Xa J. Hemley R. Jeffcoat A.
 Bell P. M.
 Equation of State Synchrotron Experiments with Hydrogen at High Pressures
- Hamilton D. C. Nellis W. J. Holmes N. C. Radousky H. B. Ree F. H.
 Properties of Synthetic Uranus at High Pressures and Temperatures
- Turcott D. L. Schubert G.
 Tectonic Implications of Radiogenic Noble Gases in Planetary Atmospheres
- Caffee M. W. Hudson G. B.
 A Non-primitive Origin for Terrestrial ^{129}Xe Anomalies
- Abe Y. Matsui T.
 Evolution of an Impact-generated $\text{H}_2\text{O-CO}_2$ Atmosphere and Formation of a Hot Proto-Ocean on Earth
- Squyres S.W. Reynolds R.T. Summers A.L. Shung F.
 Accretional Heating of the Satellites of Saturn and Uranus
- Thomas P.J. Schubert G.
 Non-Newtonian Diapirism in the Icy Satellites
- Hood L.L.
 A Model for the Formation of Magnetic Anomalies Antipodal to Lunar Impact Basins
- Runcorn S.K.
 Primeval Lunar Satellites

POSTER PRESENTATIONS

- Malcuit R. J. Winters R. R.
 Computer Simulation Model for Early Post-Capture Lunar Orbital Evolution:
 Implications for Thermal History of Moon and Earth
- Chowdhary S.K. Runcorn S.K. Collinson D.W. Stephenson A.
 Further Aspects of Lunar Paleointensity Determinations and the Origin of the
 Ancient Lunar Magnetic Field

PRESENTED BY TITLE ONLY

- Myasnikov V.P. Markov M.S. Timoshkina E.P. Rodinova Zh.F.
 Comparative Estimate of Viscosity Parameters of the Earth's Group Planets
 and Peculiarities of Their Tectonic Structures
- Segatz M. Spohn T.
 Interior Models of Io and the Surface Distribution of Hot Spots

DATA SYSTEMS POSTER SESSION

Callahan J.D.
 Fast-Graphics, Solar System Simulation for
 Microcomputers

Clarke T. C. Anderson J. L.
 Galileo Science Data System

Lee S. W. Davis R. L. Ludwig G. H. Barth C. A.
 Stern S. A. Lasater S. Simmons K.
 Development of the Prototype Atmospheres Node of the
 Planetary Data System

Abe Y.	MARS & OTHER REMOTE SENSING, WED.AM,G104	MARS & OTHER REMOTE SENSING, WED.AM,G104
Agresti D.G.	HALLEY & COMET EXPLORATION, TUES.AM,GYM	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Ahrens T.J.	HALLEY & COMET EXPLORATION, TUES.AM,GYM	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Albee A.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM	PLANETARY GELOGIC PROCESSES, FRI.AM,G104
Anderson W.W.	MARS AND OTHER REMOTE SENSING, WED.AM,G104	VENUS TECTONIC STYLES, MON.AM,G104
Armand N.A.	SPACE UTILIZATION, MON.PM,GYM	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
Arnold J.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
Arvidson R.E.	PLANETARY GELOGIC PROCESSES, FRI.AM,G104	CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
Balogh S.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104	SNC METEORITES, THURS.AM,G104
Basilevsky A.Y.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Basu A.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
Becker R.H.	EUCRITES & ASSOCIATES, WED.PM,GYM	MARS CHANNELS & VOLATILES, WED.PM,G104
Beckett J.R.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
Bell P.M.	PLANETARY PHYSICS, FRI.AM,G206	MARS CHANNELS & VOLATILES, WED.PM,G104
Bell J.F.	ORDINARY CHONDRITES, FRI.AM,GYM	IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
Benz W.	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM	THE OUTER SOLAR SYSTEM, TUES.PM,G206
Berkley J.L.	EUCRITES & ASSOCIATES, WED.PM,GYM	VENUS TECTONIC STYLES, MON.AM,G104
Bernatowicz T.J.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206	MARS & OTHER REMOTE SENSING, WED.AM,G104
Bertka C.M.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM	LUNAR HIGHLANDS, THURS.PM,G104
Bibring J.P.	COSMIC DUST, WED.AM,G206	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
Bills B.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104	MARS CHANNELS & VOLATILES, WED.PM,G104
Bindschadler D.L.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104	ORDINARY CHONDRITES, FRI.AM,GYM
Binzel R.P.	ASTEROIDS & COMETS, THURS.PM,GYM	UREILITES & IRON METEORITES, THURS.PM,G206
Birck J.L.	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Blake D.F.	COSMIC DUST, WED.AM,G206	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
Blaney D.L.	MARS & OTHER REMOTE SENSING, WED.AM,G104	ONSET OF ACCRETION, WED. EVE., G104
Blanford G.E.	COSMIC DUST, WED.AM,G206	SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
Blount G.	MARS & OTHER REMOTE SENSING, WED.AM,G104	PLANETARY GELOGIC PROCESSES, FRI.AM,G104
Blum J.D.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM	SNC METEORITES, THURS.AM,G104
Bogard D.D.	SNC METEORITES, THURS.AM,G104	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Bohor B.F.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206	MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
Borrello M.C.	MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206	CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
Boschelli L.J.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
Boslough M.B.	IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.AM,G206
Boudreau A.E.	PLANETARY GELOGIC PROCESSES, FRI.AM,G104	COSMIC DUST, WED.AM,G206
Bougan S.J.	MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Bradley J.P.	COSMIC DUST, WED.AM,G206	COSMIC RAYS, THURS.PM,G206
Brannon J.C.	ORDINARY CHONDRITES, FRI.AM,GYM	COSMIC RAYS, THURS.PM,G206
Brearley A.J.	ORDINARY CHONDRITES, FRI.AM,GYM	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
Brigham C.A.	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
Britt D.T.	ASTEROIDS & COMETS, THURS.PM,GYM	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
Brownlee D.E.	HALLEY & COMET EXPLORATION, TUES.AM,GYM	PLANETARY GELOGIC PROCESSES, FRI.AM,G104
Bruckenthal E.A.	MARS & OTHER REMOTE SENSING, WED.AM,G104	ORDINARY CHONDRITES, FRI.AM,GYM
Burns R.G.	MARS & OTHER REMOTE SENSING, WED.AM,G104	MARS & OTHER REMOTE SENSING, WED.AM,G104
Cameron A.G.W.	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM	MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
Campbell B.A.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104	ASTEROIDS & COMETS, THURS.PM,GYM
Carr M.H.	MARS CHANNELS & VOLATILES, WED.PM,G104	SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
Cashore J.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
Chen J.H.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206	SPACE UTILIZATION, MON.PM,GYM
		IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
Christensen P.R.		
Cintala M.J.		
Clark B.C.		
Clark B.C.		
Clark P.E.		
Clayton D.D.		
Clayton R.N.		
Clayton R.N.		
Colson R.O.		
Colwell J.E.		
Coombs C.R.		
Costard F.		
Craddock R.A.		
Craddock R.A.		
Crawford D.		
Croft S.K.		
Crumpler L.S.		
Dale-Bannister M.A.		
Dasch E.J.		
Davis A.M.		
De Hon R.A.		
Dehart J.M.		
Delaney J.S.		
Delano J.W.		
Deutsch A.		
Domn B.		
Drake M.J.		
Drake D.M.		
Dreibus G.		
Eberhardt P.		
Edgett K.S.		
El Goresy A.		
Elthon D.		
Epstein S.		
Esat T.M.		
Eugster O.		
Eugster O.		
Evans J.C.		
Fahey A.J.		
Farrand W.H.		
Fehn U.		
Feldman W.C.		
Fogel R.A.		
Francis P.		
Frey H.		
Gaffey M.J.		
Garvin J.B.		
Garvin J.B.		
Gibson E.K.Jr.		
Glass B.P.		

- Goguen J.
 Goldstein J.I.
 Golombek M.P.
 Golombek M.P.
 Golombek M.P.
 Gooding J.L.
 Goodrich C.A.
 Gradie J.C.
 Gradie J.C.
 Grady M.M.
 Greeley R.
 Greenberg R.
 Grieve R.A.F.
 Grimm R.E.
 Grizzaffi P.
 Grun E.
 Guimon R.K.
 Gulick V.C.
 Haberle R.M.
 Hamilton D.C.
 Harper C.L.
 Hartmann W.K.
 Haskin L.A.
 Haskin L.A.
 Haskin L.A.
 Head J.W.
 Helfenstein P.
 Hewins R.H.
 Heymann D.
 Hildebrand A.R.
 Hillgren V.
 Hinton R.W.
 Holsapple K.A.
 Hood L.L.
 Hood L.L.
 Horstman K.C.
 Hudson G.B.
 Hughes S.S.
 Huss G.R.
 Ireland T.R.
 Jakovsky B.M.
 James O.B.
 Janes D.M.
 Jaumann R.
 Jessberger E.K.
 Jones J.H.
 Jons H.-P.
 Jordan J.
 Kargel J.S.
- THE OUTER SOLAR SYSTEM, TUES.PM,G206
 UREILITES & IRON METEORITES, THURS.PM,G206
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 SNC METEORITES, THURS.AM,G104
 UREILITES & IRON METEORITES, THURS.PM,G206
 ASTEROIDS & COMETS, THURS.PM,GYM
 THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 UREILITES & IRON METEORITES, THURS.PM,G206
 VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
 THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 VENUS TECTONIC STYLES, MON.AM,G104
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 ORDINARY CHONDRITES, FRI.AM,GYM
 MARS CHANNELS & VOLATILES, WED.PM,G104
 MARS CHANNELS & VOLATILES, WED.PM,G104
 PLANETARY PHYSICS, FRI.AM,G206
 EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 LUNAR HIGHLANDS, THURS.PM,G104
 SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 VENUS TECTONIC STYLES, MON.AM,G104
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 EUCRITES & ASSOCIATES, WED.PM,GYM
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
 PLANETARY PHYSICS, FRI.AM,G206
 PLANETARY GEOLIC PROCESSES, FRI.AM,G104
 PLANETARY PHYSICS, FRI.AM,G206
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 MARS CHANNELS & VOLATILES, WED.PM,G104
 LUNAR HIGHLANDS, THURS.PM,G104
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 MARS CHANNELS & VOLATILES, WED.PM,G104
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
- Kerridge J.F.
 Khodakovsky I.L.
 Kiefer W.S.
 Klock W.
 Knittle E.
 Koebel C.
 Korotev R.L.
 Korotev R.L.
 Kozak R.C.
 Kracher A.
 Kring D.A.
 Kuehner S.M.
 Kurat G.
 Kurat G.
 Kusky-T.M.
 Kyte F.T.
 Langevin Y.
 Laul J.C.
 Lee S.W.
 Lee T.
 Lewis R.S.
 Liffman K.
 Lindstrom M.M.
 Lissauer J.J.
 Lofgren G.E.
 Longhi J.
 Lucchitta B.K.
 Lucey P.G.
 Lugmair G.W.
 Luzius-Lange D.
 MacKinnon D.J.
 MacPherson G.J.
 Majewski E.
 Marti K.
 Masursky H.
 Maurette M.
 Maurette M.
 Maxwell T.A.
 McDonough W.F.
 McFadden L.A.
 McGee J.J.
 McGill G.E.
 McKay G.
 McKeegan K.D.
 McSween H.Y.Jr.
 Melosh H.J.
 Mittlefehldt D.W.
 Mizutani, H.
 Molini-Velsko C.A.
- EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
 VENUS -INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 PLANETARY-DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 LUNAR HIGHLANDS, THURS.PM,G104
 VENUS TECTONIC STYLES, MON.AM,G104
 UREILITES & IRON METEORITES, THURS.PM,G206
 CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 ORDINARY CHONDRITES, FRI.AM,GYM
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 LUNAR HIGHLANDS, THURS.PM,G104
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 LUNAR HIGHLANDS, THURS.PM,G104
 THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 ORDINARY CHONDRITES, FRI.AM,GYM
 EUCRITES & ASSOCIATES, WED.PM,GYM
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 LUNAR HIGHLANDS, THURS.PM,G104
 LUNAR HIGHLANDS, THURS.PM,G104
 ORDINARY CHONDRITES, FRI.AM,GYM
 MARS CHANNELS & VOLATILES, WED.PM,G104
 CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
 COSMIC RAYS, THURS.PM,G206
 VENUS TECTONIC STYLES, MON.AM,G104
 COSMIC DUST, WED.AM,G206
 COSMIC DUST, WED.AM,G206
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 ASTEROIDS & COMETS, THURS.PM,GYM
 LUNAR HIGHLANDS, THURS.PM,G104
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 SNC METEORITES, THURS.AM,G104
 COSMIC DUST, WED.AM,G206
 CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 EUCRITES & ASSOCIATES, WED.PM,GYM
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM

Moore H.J.	PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104	Rubin A.E.	CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
Morgan T.H.	IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206	Runcorn S.K.	PLANETARY PHYSICS, FRI.AM,G206
Morioka M.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM	Salisbury J.W.	MARS & OTHER REMOTE SENSING, WED.AM,G104
Moroz V.	HALLEY & COMET EXPLORATION, TUES.AM,GYM	Selpas P.A.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
Morris R.V.	MARS & OTHER REMOTE SENSING, WED.AM,G104	Schaber G.G.	VENUS TECTONIC STYLES, MON.AM,G104
Morrison D.A.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM	Schenk P.M.	THE OUTER SOLAR SYSTEM, TUES.PM,G206
Mouginis-Mark P.J.	MARS CHANNELS & VOLATILES, WED.PM,G104	Schmitt H.H.	SYMPORIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
Mukhin L.M.	IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206	Schultz P.H.	IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
Mukhin L.M.	HALLEY & COMET EXPLORATION, TUES.AM,GYM	Schultz L.	EUCRITES & ASSOCIATES, WED.PM,GYM
Murali A.V.	PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104	Scott E.R.D.	ONSET OF ACCRETION, WED.EVE., G104
Murchie S.L.	THE OUTER SOLAR SYSTEM, TUES.PM,G206	See T.H.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Nagahara H.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM	Shoemaker E.M.	ASTEROIDS & COMETS, THURS.PM,GYM
Nagasawa H.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM	Siben W.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
Nakamura N.	ORDINARY CHONDRITES, FRI.AM,GYM	Signer P.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Neal C.R.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104	Simon S.B.	LUNAR HIGHLANDS, THURS.PM,G104
Newsom H.E.	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM	Slade M.A.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
Niemeyer S.	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM	Solberg T.C.	SNC METEORITES, THURS.AM,G104
Nier A.O.	COSMIC DUST, WED.AM,G206	Spivack A.J.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
Nishiizumi K.	COSMIC RAYS, THURS.PM,G206	Spudis P.D.	SYMPORIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
Nutman A.P.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM	Squires S.W.	PLANETARY PHYSICS, FRI.AM,G206
Nyquist L.E.	SNC METEORITES, THURS.AM,G104	Steele A.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
O'Keefe J.D.	IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206	Steele I.M.	ORDINARY CHONDRITES, FRI.AM,GYM
O'Keefe J.A.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104	Stephenson L.D.	SPACE UTILIZATION, MON.PM,GYM
Oberst J.	ASTEROIDS & COMETS, THURS.PM,GYM	Stern S.A.	ASTEROIDS & COMETS, THURS.PM,GYM
Owensby P.D.	SPACE UTILIZATION, MON.PM,GYM	Stofan E.R.	VENUS TECTONIC STYLES, MON.AM,G104
Ozima M.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206	Stoffler D.	EUCRITES & ASSOCIATES, WED.PM,GYM
Palme H.	CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM	Strickland E.L.	SNC METEORITES, THURS.AM,G104
Papanastassiou D.A.	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM	Stram R.G.	THE OUTER SOLAR SYSTEM, TUES.PM,G206
Papanastassiou D.A.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206	Sturms F.M.Jr.	SYMPORIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
Paque J.M.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM	Suitor J.W.	SPACE UTILIZATION, MON.PM,GYM
Patterson C.W.	ASTEROIDS & COMETS, THURS.PM,GYM	Sullivan R.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
Paul R.L.	EUCLITES & ASSOCIATES, WED.PM,GYM	Sutton S.R.	COSMIC DUST, WED.AM,G206
Pellas P.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206	Swindle T.D.	SNC METEORITES, THURS.AM,G104
Pieters C.M.	SYMPORIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104	Swindle T.D.	ORDINARY CHONDRITES, FRI.AM,GYM
Plaut J.	VENUS TECTONIC STYLES, MON.AM,G104	Takeda H.	ASTEROIDS & COMETS, THURS.PM,GYM
Polanskey C.A.	IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206	Takeda H.	EUCRITES & ASSOCIATES, WED.PM,GYM
Prinz M.	UREILITES & IRON METEORITES, THURS.PM,G206	Takeda H.	LUNAR HIGHLANDS, THURS.PM,G104
Promo C.A.	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM	Tanaka K.L.	UREILITES & IRON METEORITES, THURS.PM,G206
Radomsky P.M.	ORDINARY CHONDRITES, FRI.AM,GYM	Tanaka K.L.	MARS CHANNELS & VOLATILES, WED.PM,G104
Rajan R.S.	COSMIC RAYS, THURS.PM,G206	Taylor G.J.	MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
Reed G.W.Jr.	EUCLITES & ASSOCIATES, WED.PM,GYM	Taylor S.R.	SYMPORIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
Reedy R.C.	SYMPORIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104	Tera F.	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
Reimold W.U.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206	Thiemens M.H.	EUCRITES & ASSOCIATES, WED.PM,GYM
Rietmeijer F.J.M.	COSMIC DUST, WED.AM,G206	Thomas P.J.	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
Ringwood A.E.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM	Thomas P.J.	PLANETARY PHYSICS, FRI.AM,G206
Roberts M.L.	SYMPORIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104	Thompson T.W.	THE OUTER SOLAR SYSTEM, TUES.PM,G206
Robertson P.B.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206	Treiman A.H.	MARS & OTHER REMOTE SENSING, WED.AM,G104
Roccia R.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206	Turcotte D.L.	SNC METEORITES, THURS.AM,G104
Rossbacher L.A.	MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206	Turner G.	PLANETARY PHYSICS, FRI.AM,G206
Roush T.L.	THE OUTER SOLAR SYSTEM, TUES.PM,G206		LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206

Tyburczy J.A. IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
Van der Stap C.C.A.H. UREILITES & IRON METEORITES, THURS.PM,G206
Vaniman D.T. SPACE UTILIZACIÓN, MON.PM,GYM
Vetter S. LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
Vickery A.M. THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
Vorder Brueg R.W. VENUS TECTONIC STYLES, MON.AM,G104
Walker R.M. COSMIC DUST, WED.AM,G206
Walsh P.A. MARS & OTHER REMOTE SENSING, WED.AM,G104
Walter L.S. MARS & OTHER REMOTE SENSING, WED.AM,G104
Wark D.A. CARBONACEOUS CHONDrites: INCLUSIONS & MATRIX, MON.AM,GYM
Warren P.H. LUNAR HIGHLANDS, THURS.PM,G104
Warren P.H. EUCRITES & ASSOCIATES, WED.PM,GYM
Wasserburg G.J. NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
Wasson J.T. IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
Watters T.R. MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
Webb S.J. COSMIC DUST, WED.AM,G206
Weissman P. HALLEY & COMET EXPLORATION, TUES.AM,GYM
Wentworth S.J. LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Wetherill G.W. THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
Wetherill G.W. ASTEROIDS & COMETS, THURS.PM,GYM
Wichman R. MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
Wiens R.C. SNC METEORITES, THURS.AM,G104
Williams S.H. PLANETARY GEOLoGIC PROCESSES, FRI.AM,G104
Wilson L. PLANETARY GEOLoGIC PROCESSES, FRI.AM,G104
Wood C.A. ASTEROIDS & COMETS, THURS.PM,GYM
Wood C.A. VENUS TECTONIC STYLES, MON.AM,G104
Wood J.A. ONSET OF ACCRETION, WED. EVE., G104
Wopenka B. COSMIC DUST, WED.AM,G206
Woronow A.W. PLANETARY GEOLoGIC PROCESSES, FRI.AM,G104
Wright I.P. SNC METEORITES, THURS.AM,G104
Yanai K. EUCRITES & ASSOCIATES, WED.PM,GYM
Zent A.P. MARS CHANNELS & VOLATILES, WED.PM,G104
Zinner E.K. NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
Zolensky M.E. CARBONACEOUS CHONDrites: INCLUSIONS & MATRIX, MON.AM,GYM
Zuber M.T. VENUS TECTONIC STYLES, MON.AM,G104

A'Hearn M.F.
 Abe Y.
 Abshire J.B.
 Adam J.
 Adams J.B.
 Agosto W.N.
 Agosto W.N.
 Agresti D.G.
 Agresti D.G.
 Ahrens T.J.
 Ahrens T.J.
 Ahrens T.J.
 Ahrens T.J.
 Ahrens T.J.
 Albee A.
 Albee A.L.
 Albee A.L.
 Alekseev A.S.
 Alexeev V.A.
 Alexopoulos J.
 Anderson J.L.
 Anderson R.C.
 Anderson W.W.
 Antipova-Karataeva I.
 Anufriev G.S.
 Aoyama T.
 Aoyama T.
 Armand N.A.
 Armand N.A.
 Armstrong J.T.
 Armstrong J.T.
 Arnold J.R.
 Arnold J.R.
 Arvidson R.E.
 Arvidson R.E.
 Arvidson R.E.
 Ashwal L.D.
 Aubele J.C.
 Badjukov D.B.
 Baker V.R.
 Baldwin R.J.
 Baloga S.
 Banerdt W.B.
 Bansal B.M.
 Bansal B.M.
 Barbera P.
 Barlow N.G.
 Barr J.M.
 Barrett R.A.
 Barsukova L.D.
 Barsukova L.O.

HALLEY & COMET EXPLORATION, TUES.AM,GYM
 PLANETARY PHYSICS, FRI.AM,G206
 SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
 CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 MARS & OTHER REMOTE SENSING, WED.AM,G104
 EUCRITES & ASSOCIATES, WED.PM,GYM
 SPACE UTILIZATION, MON.PM,GYM
 MARS & OTHER REMOTE SENSING, WED.AM,G104
 MARS & OTHER REMOTE SENSING, WED.AM,G104
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 COSMIC DUST, WED.AM,G206
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 ORDINARY CHONDRITES, FRI.AM,GYM
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 DATA SYSTEMS SESSION, POSTER DISPLAYS
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 EUCRITES & ASSOCIATES, WED.PM,GYM
 COSMIC RAYS, THURS.PM,G206
 SPACE UTILIZATION, MON.PM,GYM
 MARS & OTHER REMOTE SENSING, WED.AM,G104
 NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 COSMIC RAYS, THURS.PM,G206
 SPACE UTILIZATION, MON.PM,GYM
 MARS & OTHER REMOTE SENSING, WED.AM,G104
 VENUS TECTONIC STYLES, MON.AM,G104
 VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 MARS CHANNELS & VOLATILES, WED.PM,G104
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 SNC METEORITES, THURS.AM,G104
 LUNAR HIGHLANDS, THURS.PM,G104
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206

Barth C.A.
 Baryshnikova G.V.
 Basilevsky A.Y.
 Basilevsky A.Y.
 Basu A.
 Baur H.
 Becker R.H.
 Beckett J.R.
 Beckett J.R.
 Beckett J.R.
 Begemann F.
 Bell J.F.
 Bell J.F.
 Bell P.M.
 Benjamin T.M.
 Benkert J.P.
 Benz W.
 Beran A.
 Berkley J.L.
 Bernatowicz T.
 Bernatowicz T.J.
 Bernstein M.L.
 Bertaux J-L.
 Berthelier J.J.
 Bertka C.M.
 Beutsch A.
 Bibring J.P.
 Bibring J.P.
 Bills B.
 Bindschadler D.
 Bindschadler D.L.
 Binzel R.P.
 Birck J.L.
 Bischoff A.
 Blake D.F.
 Blake R.D.
 Blanchard D.P.
 Blaney D.
 Blaney D.L.
 Blanford G.E.
 Blodget H.W.
 Blount G.
 Blount G.
 Blount G.
 Blum J.D.
 Bockelée-Morvan D.
 Boclet D.
 Boctor N.
 Bogard D.D.
 Bogard D.D.

DATA SYSTEMS SESSION, POSTER DISPLAYS
 CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 VENUS INTERIOR MODELS & SURFACE GEOCHEM., MON.PM,G104
 VENUS TECTONIC STYLES, MON.AM,G104
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 EUCRITES & ASSOCIATES, WED.PM,GYM
 CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 ASTEROIDS & COMETS, THURS.PM,GYM
 ORDINARY CHONDRITES, FRI.AM,GYM
 PLANETARY PHYSICS, FRI.AM,G206
 UREILITES & IRON METEORITES, THURS.PM,G206
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 EUCRITES & ASSOCIATES, WED.PM,GYM
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 LUNAR HIGHLANDS, THURS.PM,G104
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 COSMIC DUST, WED.AM,G206
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
 VENUS TECTONIC STYLES, MON.AM,G104
 VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
 ASTEROIDS & COMETS, THURS.PM,GYM
 NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 COSMIC DUST, WED.AM,G206
 SPACE UTILIZATION, MON.PM,GYM
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 SPACE UTILIZATION, MON.PM,GYM
 MARS & OTHER REMOTE SENSING, WED.AM,G104
 COSMIC DUST, WED.AM,G206
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 MARS & OTHER REMOTE SENSING, WED.AM,G104
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 EUCRITES & ASSOCIATES, WED.PM,GYM
 SNC METEORITES, THURS.AM,G104
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206

Bogomolov A.F.	VENUS TECTONIC STYLES, MON.AM,G104	PLANETARY PHYSICS, FRI.AM,G206
Bohor B.F.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206	DATA SYSTEMS SESSION, POSTER DISPLAYS
Boltenkov B.S.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206	MARS & OTHER REMOTE SENSING, WED.AM,G104
Bonte Ph.	COSMIC DUST, WED.AM,G206	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
Bonte Ph.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
Borg J.	COSMIC DUST, WED.AM,G206	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
Borrello M.C.	MARS GEOLGY & GEOMORPHOLOGY, TUES.AM,G206	VENUS TECTONIC STYLES, MON.AM,G104
Boschelli L.J.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Boslough M.B.	IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Boudreau A.E.	PLANETARY GELOGIC PROCESSES, FRI.AM,G104	EUCRITES & ASSOCIATES, WED.PM,GYM
Bougan S.J.	MARS GEOLGY & GEOMORPHOLOGY, TUES.AM,G206	MARS CHANNEL'S & VOLATILES, WED.PM,G104
Bourot-Denise M.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206	SNC METEORITES, THURS.AM,G104
Bouska V.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206	SPACE UTILIZATION, MON.PM,GYM
Boyer H.	IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
Boynton W.V.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Boynton W.V.	CARBONACEOUS CHONDRIES: INCLUSIONS & MATRIX, MON.AM,GYM	THE OUTER SOLAR SYSTEM, TUES.PM,G206
Bradley D.C.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM	EUCRITES & ASSOCIATES, WED.PM,GYM
Bradley J.G.	HALLEY & COMET EXPLORATION, TUES.AM,GYM	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
Bradley J.P.	COSMIC DUST, WED.AM,G206	MARS GEOLGY & GEOMORPHOLOGY, TUES.AM,G206
Bradley J.P.	HALLEY & COMET EXPLORATION, TUES.AM,GYM	IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
Bradley L.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM	CARBONACEOUS CHONDRIES, CHONDRULES & NEBULA, MON.PM,GYM
Brandstatter F.	CARBONACEOUS CHONDRIES: INCLUSIONS & MATRIX, MON.AM,GYM	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
Brannon J.C.	ORDINARY CHONDRIES, FRI.AM,GYM	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Brannon J.C.	MARS GEOLGY & GEOMORPHOLOGY, TUES.AM,G206	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Branstrator J.W.	ORDINARY CHONDRIES, FRI.AM,GYM	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
Brearley A.J.	MARS GEOLGY & GEOMORPHOLOGY, TUES.AM,G206	IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
Breed C.S.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM	PLANETARY PHYSICS, FRI.AM,G206
Bridgwater D.	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM	MARS CHANNELS & VOLATILES, WED.PM,G104
Brigham C.A.	PLANETARY GELOGIC PROCESSES, FRI.AM,G104	MARS & OTHER REMOTE SENSING, WED.AM,G104
Brinkley F.W.Jr.	ASTEROIDS & COMETS, THURS.PM,GYM	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Britt D.T.	SPACE UTILIZATION, MON.PM,GYM	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Brown J.	COSMIC DUST, WED.AM,G206	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Brownlee D.E.	HALLEY & COMET EXPLORATION, TUES.AM,GYM	PLANETARY GELOGIC PROCESSES, FRI.AM,G104
Brownlee D.E.	MARS & OTHER REMOTE SENSING, WED.AM,G104	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Bruckenthal E.A.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104	VENUS TECTONIC STYLES, MON.AM,G104
Bryan W.B.	SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104	DATA SYSTEMS SESSION, POSTER DISPLAYS
Bufton J.L.	COSMIC DUST, WED.AM,G206	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
Bunch T.E.	CARBONACEOUS CHONDRIES: INCLUSIONS & MATRIX, MON.AM,GYM	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
Burgess R.	THE OUTER SOLAR SYSTEM, TUES.PM,G206	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
Burke K.	VENUS TECTONIC STYLES, MON.AM,G104	CARBONACEOUS CHONDRIES, CHONDRULES & NEBULA, MON.PM,GYM
Burke K.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM	MARS CHANNELS & VOLATILES, WED.PM,G104
Burmistrova V.V.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
Burnett D.	HALLEY & COMET EXPLORATION, TUES.AM,GYM	PLANETARY PHYSICS, FRI.AM,G206
Burns C.A.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206	(SNC METEORITES, THURS.AM,G104
Burns R.G.	SNC METEORITES, THURS.AM,G104	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Burns R.G.	MARS & OTHER REMOTE SENSING, WED.AM,G104	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Bustin R.	SPACE UTILIZATION, MON.PM,GYM	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
Bustin R.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Butler J.C.	PLANETARY GELOGIC PROCESSES, FRI.AM,G104	HALLEY & COMET EXPLORATION, TUES.AM,GYM
		MARS CHANNELS & VOLATILES, WED.PM,G104
Caffee M.W.		
Callahan J.D.		
Calvin W.M.		
Cameron A.G.W.		
Campbell A.J.		
Campbell B.A.		
Campbell D.B.		
Campsins H.		
Cardenas F.		
Carlson R.W.		
Carr M.H.		
Carr R.H.		
Carusi A.		
Cashore J.		
Cassen P.M.		
Cassidy W.A.		
Castellarin A.		
Cattermole P.		
Celluchi T.A.		
Chai C.F.		
Chang S.		
Chang S.		
Chassefiere E.		
Chen J.H.		
Choe K.Y.		
Chowdhary S.K.		
Christensen P.R.		
Christensen P.R.		
Chutjian A.		
Cimbalaikova A.		
Cintala M.J.		
Clark B.C.		
Clark B.C.		
Clark P.E.		
Clarke T.C.		
Clayton D.D.		
Clayton R.N.		
Clayton R.N.		
Clayton R.N.		
Clifford S.M.		
Coderre J.		
Collinson D.W.		
Colson R.O.		
Colwell J.E.		
Combes M.		
Coombs C.R.		
Coradini A.		
Coron N.		
Costard F.		

- Craddock R.A. LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 Craddock R.A. THE OUTER SOLAR SYSTEM, TUES.PM,G206
 Craddock R.A. MARS CHANNELS & VOLATILES, WED.PM,G104
 Crawford O. IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 Cribo J.F. HALLEY & COMET EXPLORATION, TUES.AM,GYM
 Croft S.K. THE OUTER SOLAR SYSTEM, TUES.PM,G206
 Cronin J.R. EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 Crovisier J. HALLEY & COMET EXPLORATION, TUES.AM,GYM
 Crown D.A. LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 Crown D.A. THE OUTER SOLAR SYSTEM, TUES.PM,G206
 Crozaz G. CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 Crozaz G. EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 Cruikshank D.P. ASTEROIDS & COMETS, THURS.PM,GYM
 Cruikshank D.P. HALLEY & COMET EXPLORATION, TUES.AM,GYM
 Crumpler L.S. MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 Crumpler L.S. VENUS TECTONIC STYLES, MON.AM,G104
 Curnander J. VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
 Cygan R.T. IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 Dale-Bannister M.A. MARS & OTHER REMOTE SENSING, WED.AM,G104
 Dasch E.J. LUNAR HIGHLANDS, THURS.PM,G104
 Davies A.G. PLANETARY GELOGIC PROCESSES, FRI.AM,G104
 Davis A.M. THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 Davis A.M. CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 Davis D.R. THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 Davis P. PLANETARY GELOGIC PROCESSES, FRI.AM,G104
 Davis P.A. MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 Davis R.L. DATA SYSTEMS SESSION, POSTER DISPLAYS
 De Hon R.A. MARS CHANNELS & VOLATILES, WED.PM,G104
 De Hon R.A. MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 Dehart J.M. PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 Delaney J.S. ORDINARY CHONDRITES, FRI.AM,GYM
 Delaney J.S. UREILITES & IRON METEORITES, THURS.PM,G206
 Delaney J.S. SNC METEORITES, THURS.AM,G104
 Delaney J.S. EUCRITES & ASSOCIATES, WED.PM,GYM
 Delano J.W. LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 Delano J.W. PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 Delano J.W. LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 Delano J.W. LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 Deshmukh S.S. PLANETARY GELOGIC PROCESSES, FRI.AM,G104
 Deutsch A. IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 Dickey J.O. LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 Dolder U. HALLEY & COMET EXPLORATION, TUES.AM,GYM
 Dolginov Sh.Sh. THE OUTER SOLAR SYSTEM, TUES.PM,G206
 Dollfus A. MARS CHANNELS & VOLATILES, WED.PM,G104
 Donn B. ONSET OF ACCRETION, WED.EVE., G104
 Donn B. CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 Drake D.M. PLANETARY GELOGIC PROCESSES, FRI.AM,G104
 Drake D.M. SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
 Drake M.J. SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
 Drake M.J. THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
- Dreibus G. SNC METEORITES, THURS.AM,G104
 Duffy C.J. UREILITES & IRON METEORITES, THURS.PM,G206
 Durrheim R.J. IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 Dyck M. THE OUTER SOLAR SYSTEM, TUES.PM,G206
 Dymek R.F. PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 Eberhardt P. HALLEY & COMET EXPLORATION, TUES.AM,GYM
 Edgett K.S. MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 El Goresy A. CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 Elachi C. VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
 Elmore D. IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 Elthon D. PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 Eluszakiewicz J. THE OUTER SOLAR SYSTEM, TUES.PM,G206
 Emerich C. HALLEY & COMET EXPLORATION, TUES.AM,GYM
 Encrenaz T. HALLEY & COMET EXPLORATION, TUES.AM,GYM
 Engel S. LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 Englert P.A.J. COSMIC RAYS, THURS.PM,G206
 Epps H. THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 Epstein S. EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 Esat T.M. IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 Esat T.M. COSMIC DUST, WED.AM,G206
 Eugster O. LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 Eugster O. COSMIC RAYS, THURS.PM,G206
 Evans J.C. COSMIC RAYS, THURS.PM,G206
 Evlanov E.N. HALLEY & COMET EXPLORATION, TUES.AM,GYM
 Fahey A.J. NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 Fahey A.J. EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 Fairchild K.O. SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
 Fanale F.P. MARS CHANNELS & VOLATILES, WED.PM,G104
 Farrand W.H. LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 Fegley B. CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 Fehn U. IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 Feldman P.D. HALLEY & COMET EXPLORATION, TUES.AM,GYM
 Feldman W.C. SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
 Feldman W.C. PLANETARY GELOGIC PROCESSES, FRI.AM,G104
 Fessler B.W. EUCRITES & ASSOCIATES, WED.PM,GYM
 Festou M. HALLEY & COMET EXPLORATION, TUES.AM,GYM
 Fielder J. SPACE UTILIZATION, MON.PM,GYM
 Fieni C. EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 Finger L. PLANETARY PHYSICS, FRI.AM,G206
 Fisenko A.V. CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 Fisenko A.V. NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 Flynn G.J. COSMIC DUST, WED.AM,G206
 Fogel R.A. ORDINARY CHONDRITES, FRI.AM,GYM
 Fomenkova N.N. HALLEY & COMET EXPLORATION, TUES.AM,GYM
 Foord E.E. IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 Frait Z. LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 Franaszczuk K. IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 Francis P. VENUS TECTONIC STYLES, MON.AM,G104
 Francis P. MARS & OTHER REMOTE SENSING, WED.AM,G104
 Franklin B. LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104

Frey H.
Fryer B.J.
Fugan M.M.
Fuldner W.V.
Gaddis L.R.
Gaffey M.J.
Ganapathy R.
Gardner J.E.
Garrison D.
Garvin J.B.
Garvin J.B.
Garvin J.B.
Gault D.E.
Genaeva L.I.
Gerasimov M.V.
Gerke T.
Ghelis M.
Gibson E.K.Jr.
Gibson E.K.Jr.
Gibson E.K.Jr.
Gispert R.
Glass B.P.
Glazovskaya L.I.
Glukhovsky M.Z.
Gnaser H.
Godbole M.J.
Goel P.S.
Goguen J.
Goldstein J.I.
Golombek M.P.
Golombek M.P.
Golombek M.P.
Gomez-Moran C.
Goodacre A.K.
Gooding J.L.
Gooding J.L.
Goodrich C.A.
Goswami J.N.
Gove H.E.
Gradie J.C.
Gradie J.C.
Grady M.M.
Grady M.M.
Grant J.A.
Grant J.A.
Greeley R.
Greeley R.
Greeley R.
Greeley R.
Greeley R.
MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
ORDINARY CHONDRITES, FRI.AM,GYM
SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
LUNAR MARE BASALTS AND GEOLGY, TUES.PM,G104
ASTEROIDS & COMETS, THURS.PM,GYM
LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
SNC METEORITES, THURS.AM,G104
SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
ORDINARY CHONDRITES, FRI.AM,GYM
IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
SPACE UTILIZATION, MON.PM,GYM
SNC METEORITES, THURS.AM,G104
LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
HALLEY & COMET EXPLORATION, TUES.AM,GYM
IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
SPACE UTILIZATION, MON.PM,GYM
IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
THE OUTER SOLAR SYSTEM, TUES.PM,G206
UREILITES & IRON METEORITES, THURS.PM,G206
LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
THE OUTER SOLAR SYSTEM, TUES.PM,G206
PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
SNC METEORITES, THURS.AM,G104
UREILITES & IRON METEORITES, THURS.PM,G206
NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
ASTEROIDS & COMETS, THURS.PM,GYM
SNC METEORITES, THURS.AM,G104
UREILITES & IRON METEORITES, THURS.PM,G206
MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
MARS & OTHER REMOTE SENSING, WED.AM,G104
LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
ASTEROIDS & COMETS, THURS.PM,GYM
HALLEY & COMET EXPLORATION, TUES.AM,GYM
PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
ORDINARY CHONDRITES, FRI.AM,GYM
MARS CHANNELS & VOLATILES, WED.PM,G104
MARS CHANNELS & VOLATILES, WED.PM,G104
EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
PLANETARY PHYSICS, FRI.AM,G206
COSMIC DUST, WED.AM,G206
ORDINARY CHONDRITES, FRI.AM,GYM
EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
ASTEROIDS & COMETS, THURS.PM,GYM
HALLEY & COMET EXPLORATION, TUES.AM,GYM
MARS CHANNELS & VOLATILES, WED.PM,G104
ASTEROIDS & COMETS, THURS.PM,GYM
HALLEY & COMET EXPLORATION, TUES.AM,GYM
THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
ORDINARY CHONDRITES, FRI.AM,GYM
ORDINARY CHONDRITES, FRI.AM,GYM
NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
LUNAR HIGHLANDS, THURS.PM,G104
SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
LUNAR HIGHLANDS, THURS.PM,G104
SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
LUNAR HIGHLANDS, THURS.PM,G104
PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
PLANETARY PHYSICS, FRI.AM,G206
VENUS TECTONIC STYLES, MON.AM,G104
THE OUTER SOLAR SYSTEM, TUES.PM,G206
PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
VENUS TECTONIC STYLES, MON.AM,G104
VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206

Greeley R.
Greenberg R.
Greenzweig Y.
Grieve R.A.F.
Grigoriev A.
Grimm R.E.
Grimm R.E.
Grizzafi P.
Grossman J.N.
Grossman L.
Grossman L.
Grun E.
Guest J.E.
Guimon R.K.
Guinness E.A.
Gulick V.C.
Haberle R.M.
Hagee B.E.
Hager B.H.
Haines E.L.
Hamilton D.C.
Hammer C.
Haq M.
Harper C.L.
Harris A.W.
Harris A.W.
Hart H.M.
Hartmann W.F.
Hartmann W.F.
Hartmann W.K.
Hartmetz C.P.
Hasan F.A.
Hashimoto A.
Haskin L.A.
Haskin L.A.
Haskin L.A.
Haskin L.A.
Hawke B.R.
Hawke B.R.
Hawke B.R.
Hawke B.R.
Hayakawa M.
Hayashi J.
Hazen R.
Head J.W.
Head J.W.
Head J.W.
Head J.W.
Head J.W.
Heavilon C.
MARS CHANNELS & VOLATILES, WED.PM,G104
THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
HALLEY & COMET EXPLORATION, TUES.AM,GYM
VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
VENUS TECTONIC STYLES, MON.AM,G104
MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
ORDINARY CHONDRITES, FRI.AM,GYM
NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
HALLEY & COMET EXPLORATION, TUES.AM,GYM
PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
ORDINARY CHONDRITES, FRI.AM,GYM
MARS & OTHER REMOTE SENSING, WED.AM,G104
MARS CHANNELS & VOLATILES, WED.PM,G104
MARS CHANNELS & VOLATILES, WED.PM,G104
EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
PLANETARY PHYSICS, FRI.AM,G206
COSMIC DUST, WED.AM,G206
ORDINARY CHONDRITES, FRI.AM,GYM
EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
ASTEROIDS & COMETS, THURS.PM,GYM
HALLEY & COMET EXPLORATION, TUES.AM,GYM
MARS CHANNELS & VOLATILES, WED.PM,G104
ASTEROIDS & COMETS, THURS.PM,GYM
HALLEY & COMET EXPLORATION, TUES.AM,GYM
THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
ORDINARY CHONDRITES, FRI.AM,GYM
ORDINARY CHONDRITES, FRI.AM,GYM
NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
LUNAR HIGHLANDS, THURS.PM,G104
SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
LUNAR HIGHLANDS, THURS.PM,G104
SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
LUNAR HIGHLANDS, THURS.PM,G104
PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
PLANETARY PHYSICS, FRI.AM,G206
VENUS TECTONIC STYLES, MON.AM,G104
THE OUTER SOLAR SYSTEM, TUES.PM,G206
PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
VENUS TECTONIC STYLES, MON.AM,G104
VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206

- Helfenstein P.
 Hemley R.
 Hess P.C.
 Hewins R.H.
 Hewins R.H.
 Heymann D.
 Heymann D.
 Heymann D.
 Hildebrand A.R.
 Hillgren V.
 Hinton R.W.
 Hinton R.W.
 Hiroi T.
 Hock V.F.
 Hodges R.R.
 Hoffman J.H.
 Hohenberg C.M.
 Holloway J.R.
 Holmes N.C.
 Holsapple K.A.
 Honda M.
 Hood L.L.
 Hood L.L.
 Horner V.M.
 Horstman K.C.
 Horz F.
 Horz F.
 Horz F.
 Howell R.
 Howell R.
 Howington A.E.
 Howington A.E.
 Hua X.
 Hudson G.B.
 Hughes S.S.
 Hughes S.S.
 Huss, G.R.
 Hutcheon I.D.
 Hutcheon I.D.
 Hutcheon I.D.
 Nutt H.
 Huston M.L.
 Ignatenko K.I.
 Ikeda Y.
 Illiano J.M.
 Imamura M.
 Ireland T.R.
 Iriune I.
 Isachsen C.
 Ishii T.
- LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 PLANETARY PHYSICS, FRI.AM,G206
 ORDINARY CHONDRITES, FRI.AM,GYM
 ORDINARY CHONDRITES, FRI.AM,GYM
 EUCRITES & ASSOCIATES, WED.PM,GYM
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 UREILITES & IRON METEORITES, THURS.PM,G206
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 ASTEROIDS & COMETS, THURS.PM,GYM
 SPACE UTILIZATION, MON.PM,GYM
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 SNC METEORITES, THURS.AM,G104
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 PLANETARY PHYSICS, FRI.AM,G206
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 COSMIC RAYS, THURS.PM,G206
 SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
 PLANETARY PHYSICS, FRI.AM,G206
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 SNC METEORITES, THURS.AM,G104
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 SNC METEORITES, THURS.AM,G104
 THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 MARS & OTHER REMOTE SENSING, WED.AM,G104
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 PLANETARY PHYSICS, FRI.AM,G206
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 ORDINARY CHONDRITES, FRI.AM,GYM
 CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 SNC METEORITES, THURS.AM,G104
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 COSMIC RAYS, THURS.PM,G206
 NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 UREILITES & IRON METEORITES, THURS.PM,G206
- Ivanov A.V.
 Ivanova M.A.
 Jagoutz E.
 Jakosky B.M.
 Jakosky B.M.
 Jakosky B.M.
 James O.B.
 James D.M.
 Jaumann R.
 Jeanloz R.
 Jeffcoat A.
 Jehanno C.
 Jehanno C.
 Jerde E.A.
 Jerde E.A.
 Jessberger E.K.
 Jessberger E.K.
 Johnson P.
 Johnson T.
 Jones J.H.
 Jones J.H.
 Jons H.-P.
 Jordan J.
 Jordan J.
 Jordan R.
 Jordan R.
 Jovanovic S.
 Jurgens R.F.
 Jurgens R.F.
 Kalinina G.V.
 Kallemyen G.W.
 Kallemyen G.W.
 Kapitonov I.N.
 Kargel J.S.
 Karpenko S.F.
 Kashkarov L.L.
 Kashkarov L.L.
 Kashkarova V.G.
 Kato T.
 Kavrukhina A.K.
 Kawakami S.
 Keil K.
 Kellemyen G.W.
 Keller C.P.
 Kennedy J.W.
 Kerridge J.F.
 Khisina N.R.
 Khodakovsky I.L.
 Khromov V.N.
- ORDINARY CHONDRITES, FRI.AM,GYM
 ORDINARY CHONDRITES, FRI.AM,GYM
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 MARS CHANNELS & VOLATILES, WED.PM,G104
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 MARS & OTHER REMOTE SENSING, WED.AM,G104
 LUNAR HIGHLANDS, THURS.PM,G104
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS; WED.AM,GYM
 PLANETARY PHYSICS, FRI.AM,G206
 COSMIC DUST, WED.AM,G206
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 LUNAR HIGHLANDS, THURS.PM,G104
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 SNC METEORITES, THURS.AM,G104
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 UREILITES & IRON METEORITES, THURS.PM,G206
 MARS CHANNELS & VOLATILES, WED.PM,G104
 SNC METEORITES, THURS.AM,G104
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 MARS CHANNELS & VOLATILES, WED.PM,G104
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 EUCRITES & ASSOCIATES, WED.PM,GYM
 VENUS TECTONIC STYLES, MON.AM,G104
 VENUS INTÉRIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
 ORDINARY CHONDRITES, FRI.AM,GYM
 CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 EUCRITES & ASSOCIATES, WED.PM,GYM
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 ORDINARY CHONDRITES, FRI.AM,GYM
 CARBONACEOUS CHONDRITE'S, CHONDRULES & NEBULA, MON.PM,GYM
 CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 ORDINARY CHONDRITES, FRI.AM,GYM
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 ASTEROIDS & COMETS, THURS.PM,GYM
 VENUS TECTONIC STYLES, MON.AM,G104
 EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 EUCRITES & ASSOCIATES, WED.PM,GYM
 VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
 HALLEY & COMET EXPLORATION, TUES.AM,GYM

Kidd W.S.F.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
Kiefer W.S.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
Kipp M.E.	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
Kirikov A.D.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
Kissel J.	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Klein J.	COSMIC RAYS, THURS.PM,G206
Klock W.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
Knittle E.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
Kobayashi K.	COSMIC RAYS, THURS.PM,G206
Kobrick M.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
Kobrick M.	VENUS TECTONIC STYLES, MON.AM,G104
Koeberl C.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
Koeberl C.	CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
Kohl C.P.	COSMIC RAYS, THURS.PM,G206
Kojima H.	EUCRITES & ASSOCIATES, WED.PM,GYM
Kolesnikov E.M.	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Kolesov G.M.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
Kolesov G.M.	CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
Kolesov G.M.	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Korina M.I.	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Korotaev M.J.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
Korotev R.L.	LUNAR HIGHLANDS, THURS.PM,G104
Korotev R.L.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Korotev R.L.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
Kowalik J.A.	UREILITES & IRON METEORITES, THURS.PM,G206
Kozak R.C.	VENUS TECTONIC STYLES, MON.AM,G104
Kozlov V.S.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
Kracher A.	UREILITES & IRON METEORITES, THURS.PM,G206
Krankowsky D.	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Krasnopol'sky V.	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Kreslavsky M.A.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
Kring D.A.	CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
Krishnamurthy R.V.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
Kubik P.W.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
Kuehner S.M.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
Kurat G.	CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
Kurat G.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
Kuskus T.M.	ORDINARY CHONDRITES, FRI.AM,GYM
Kwok R.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
Kyte F.T.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
Lamarre J.M.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
Lambert P.	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Lammerzahl P.	SNC METEORITES, THURS.AM,G104
Lancaster N.	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Lancaster N.	MARS & OTHER REMOTE SENSING, WED.AM,G104
Lane A.	THE OUTER SOLAR SYSTEM, TUES.PM,G206
Lang B.	THE OUTER SOLAR SYSTEM, TUES.PM,G206
Langevin Y.	IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
Langevin Y.	HALLEY & COMET EXPLORATION, TUES.AM,GYM
	COSMIC DUST, WED.AM,G206
Lasater S.	DATA SYSTEMS SESSION, POSTER DISPLAYS
Lauer H.V.Jr.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Lauer H.V.Jr.	MARS & OTHER REMOTE SENSING, WED.AM,G104
Laughlin J.R.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
Laul J.C.	LUNAR HIGHLANDS, THURS.PM,G104
Laul J.C.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Laurenzi M.A.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Lavielle B.	COSMIC RAYS, THURS.PM,G206
Lavrenteva Z.A.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
Lavrentjeva Z.A.	CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
Lavrukhina A.K.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
Lavrukhina A.K.	ORDINARY CHONDRITES, FRI.AM,GYM
Lavrukhina A.K.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
Le L.	SNC METEORITES, THURS.AM,G104
Lee S.W.	DATA SYSTEMS SESSION, POSTER DISPLAYS
Lee S.W.	THE OUTER SOLAR SYSTEM, TUES.PM,G206
Lee T.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
Leff C.	MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
Leggett N.	SPACE UTILIZATION, MON.PM,GYM
Leliwa-Kopystynski J	THE OUTER SOLAR SYSTEM, TUES.PM,G206
Leshin L.A.	MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
Leshin L.A.	THE OUTER SOLAR SYSTEM, TUES.PM,G206
Lewis R.S.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
Liffman K.	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
Lindstrom D.J.	SNC METEORITES, THURS.AM,G104
Lindstrom D.J.	LUNAR HIGHLANDS, THURS.PM,G104
Lindstrom M.M.	LUNAR HIGHLANDS, THURS.PM,G104
Lindstrom M.M.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
Lipschutz M.E.	EUCRITES & ASSOCIATES, WED.PM,GYM
Lissauer J.J.	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
Liu H.S.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
Liu Y.-G.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
Ljalykov A.V.	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
Ljul A.Yu.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
Ljul A.Yu.	CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
Lobitzer H.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
Lofgren G.E.	ORDINARY CHONDRITES, FRI.AM,GYM
Longhi J.	EUCRITES & ASSOCIATES, WED.PM,GYM
Love K.M.	PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
Lucchitta B.K.	MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
Lucey P.G.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
Lucey P.G.	LUNAR HIGHLANDS, THURS.PM,G104
Lucey P.G.	SPACE UTILIZATION, MON.PM,GYM
Lucey P.G.	LUNAR HIGHLANDS, THURS.PM,G104
Ludwig G.H.	DATA SYSTEMS SESSION, POSTER DISPLAYS
Lugmair G.W.	COSMIC RAYS, THURS.PM,G206
Lugmair G.W.	LUNAR HIGHLANDS, THURS.PM,G104
Lugmair G.W.	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
Lugmair G.W.	ORDINARY CHONDRITES, FRI.AM,GYM
Lugmair G.W.	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM

- Lundberg L.L.
 Lunine J.I.
 Luth S.J.
 Luzius-Lange D.
 MacKinnon D.J.
 MacPherson G.J.
 MacPherson G.J.
 Macdougall J.D.
 Maczuga D.E.
 Maehl R.C.
 Mahoney J.J.
 Majewski E.
 Malcuit R.J.
 Malishev V.V.
 Manson B.M.
 Mao H.K.
 Mardinly A.J.
 Markov M.S.
 Markova O.M.
 Marshall J.R.
 Marti K.
 Marvin U.B.
 Marzari F.
 Mason L.W.
 Masuda A.
 Masursky H.
 Masursky H.
 Matson D.
 Matsui T.
 Matsui T.
 Maurette M.
 Mawhorter R.
 Maxwell T.A.
 Mayeda T.K.
 Mayeda T.K.
 Mazierski P.F.
 McCallum I.S.
 McCallum I.S.
 McCauley J.F.
 McCord T.B.
 McCord T.B.
 McDonnell J.A.M.
 McDonough W.F.
 McEwen A.S.
 McFadden L.A.
 McFadden L.A.
 McGee J.J.
 McGill G.E.
 McKay C.P.
 McKay C.P.
- CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 MARS & OTHER REMOTE SENSING, WED.AM,G104
 ORDINARY CHONDRITES, FRI.AM,GYM
 MARS CHANNELS & VOLATILES, WED.PM,G104
 CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
 PLANETARY PHYSICS, FRI.AM,G206
 ORDINARY CHONDRITES, FRI.AM,GYM
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 PLANETARY PHYSICS, FRI.AM,G206
 COSMIC DUST, WED.AM,G206
 PLANETARY PHYSICS, FRI.AM,G206
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
 COSMIC RAYS, THURS.PM,G206
 LUNAR HIGHLANDS, THURS.PM,G104
 COSMIC RAYS, THURS.PM,G206
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 LUNAR HIGHLANDS, THURS.PM,G104
 VENUS TECTONIC STYLES, MON.AM,G104
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 PLANETARY PHYSICS, FRI.AM,G206
 COSMIC DUST, WED.AM,G206
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 MARS & OTHER REMOTE SENSING, WED.AM,G104
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 ASTEROIDS & COMETS, THURS.PM,GYM
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 LUNAR HIGHLANDS, THURS.PM,G104
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 MARS & OTHER REMOTE SENSING, WED.AM,G104
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
- McKay D.S.
 McKay D.S.
 McKay D.S.
 McKay G.
 McKeegan K.D.
 McKeegan K.D.
 McKinnon W.B.
 McKinnon W.B.
 McLaren R.
 McManus K.K.
 McSween H.Y.Jr.
 Meagher D.
 Measures C.I.
 Meberg B.A.
 Meek T.T.
 Meier T.A.
 Melendrez D.
 Melosh H.J.
 Melosh H.J.
 Melosh H.J.
 Melosh H.J.
 Metzger A.E.
 Metzler K.
 Metzler-Ferling A.
 Middleton R.
 Middleton T.
 Migdisova L.F.
 Ming T.
 Misawa K.
 Mittelfehldt D.W.
 Miura Y.
 Miyamoto M.
 Miyamoto M.
 Miyamoto M.
 Mizutani H.
 Molini-Velsko C.A.
 Moore H.J.
 Moralev V.M.
 Morgan T.H.
 Mori H.
 Morioka M.
 Moroz V.
 Morris R.V.
 Morris R.V.
 Morris R.V.
 Morrison D.A.
 Mouginis-Mark P.J.
 Mouginis-Mark P.J.
 Mouginis-Mark P.J.
- SPACE UTILIZATION, MON.PM,GYM
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 COSMIC DUST, WED.AM,G206
 SNC METEORITES, THURS.AM,G104
 COSMIC DUST, WED.AM,G206
 NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
 SPACE UTILIZATION, MON.PM,GYM
 SPACE UTILIZATION, MON.PM,GYM
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
 EUCRITES & ASSOCIATES, WED.PM,GYM
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 COSMIC RAYS, THURS.PM,G206
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 UREILITES & IRON METEORITES, THURS.PM,G206
 EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 ORDINARY CHONDRITES, FRI.AM,GYM
 EUCRITES & ASSOCIATES, WED.PM,GYM
 LUNAR HIGHLANDS, THURS.PM,G104
 ASTEROIDS & COMETS, THURS.PM,GYM
 ORDINARY CHONDRITES, FRI.AM,GYM
 LUNAR HIGHLANDS, THURS.PM,G104
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 LUNAR HIGHLANDS, THURS.PM,G104
 CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 MARS & OTHER REMOTE SENSING, WED.AM,G104
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 LUNAR HIGHLANDS, THURS.PM,G104
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 MARS CHANNELS & VOLATILES, WED.PM,G104

Mukhin L.M.	IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206	O'Keefe J.A.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
Mukhin L.M.	HALLEY & COMET EXPLORATION, TUES.AM,GYM	O'Neill C.	SNC METEORITES, THURS.AM,G104
Murali A.V.	MARS & OTHER REMOTE SENSING, WED.AM,G104	Oberst J.	ASTEROIDS & COMETS, THURS.PM,GYM
Murali A.V.	PLANETARY GEOLIC PROCESSES, FRI.AM,G104	Ogata H.	UREILITES & IRON METEORITES, THURS.PM,G206
Murchie S.L.	THE OUTER SOLAR SYSTEM, TUES.PM,G206	Okano O.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
Murty S.V.S.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206	Okulewicz S.C.	EUCRITES & ASSOCIATES, WED.PM,GYM
Mustard J.F.	PLANETARY GEOLIC PROCESSES, FRI.AM,G104	Olinger C.T.	SNC METEORITES, THURS.AM,G104
Myasnikov V.P.	PLANETARY PHYSICS, FRI.AM,G206	Olsen E.J.	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
Nagahara H.	ORDINARY CHONDRITES, FRI.AM,GYM	Ostro S.J.	ASTEROIDS & COMETS, THURS.PM,GYM
Nagahara H.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM	Owen T.	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Nagai H.	COSMIC RAYS, THURS.PM,G206	Owensby P.D.	SPACE UTILIZATION, MON.PM,GYM
Nagamoto H.	ORDINARY CHONDRITES, FRI.AM,GYM	Ozima M.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
Nagasawa H.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM	Palme H.	CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
Nagel E.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104	Palme H.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
Naide T.	IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206	Palme H.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
Nakamura N.	ORDINARY CHONDRITES, FRI.AM,GYM	Pan V.	ORDINARY CHONDRITES, FRI.AM,GYM
Nakamura N.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM	Papanastassiou D.A.	EUCRITES & ASSOCIATES, WED.PM,GYM
Nakamura Y.	ASTEROIDS & COMETS, THURS.PM,GYM	Papanastassiou D.A.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
Nazarov M.A.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM	Papike J.J.	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
Nazarov M.A.	HALLEY & COMET EXPLORATION, TUES.AM,GYM	Papike J.J.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
Nazarov M.A.	EUCRITES & ASSOCIATES, WED.PM,GYM	Pappalardo R.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Nazarov M.A.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206	Paque J.M.	LUNAR HIGHLANDS, THURS.PM,G104
Neal C.R.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM	Parfenova O.V.	PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
Neal C.R.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104	Parmentier E.M.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
Neal C.R.	LUNAR HIGHLANDS, THURS.PM,G104	Parmentier E.M.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
Nedell S.S.	MARS & OTHER REMOTE SENSING, WED.AM,G104	Patterson C.W.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
Nehru C.E.	UREILITES & IRON METEORITES, THURS.PM,G206	Paul R.L.	VENUS TECTONIC STYLES, MON.AM,G104
Nellis W.J.	PLANETARY PHYSICS, FRI.AM,G206	Pechernikova G.V.	ASTEROIDS & COMETS, THURS.PM,GYM
Nelson R.	THE OUTER SOLAR SYSTEM, TUES.PM,G206	Pedroni A.	EUCRITES & ASSOCIATES, WED.PM,GYM
Nelson R.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM	Pellas P.	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
Neugebauer M.	HALLEY & COMET EXPLORATION, TUES.AM,GYM	Peng S.T.J.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Neukum G.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104	Perchernikova G.V.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
Nevle R.	SNC METEORITES, THURS.AM,G104	Perron C.	COSMIC DUST, WED.AM,G206
Newcomb J.A.	MARS & OTHER REMOTE SENSING, WED.AM,G104	Pettengill G.H.	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
Newhall X.X.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104	Petushkova L.V.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
Newsom H.E.	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM	Phinney W.C.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
Ngo H.H.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206	Phinney W.C.	EUCRITES & ASSOCIATES, WED.PM,GYM
Niedermann S.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206	Pieri D.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
Niemeyer S.	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM	Pieters C.M.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
Nier A.O.	COSMIC DUST, WED.AM,G206	Pieters C.M.	PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
Nikishin A.M.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM	Pieters C.M.	SYMPORIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
Nikolayeva O.V.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104	Pike R.J.	ASTEROIDS & COMETS, THURS.PM,GYM
Nishiizumi K.	COSMIC RAYS, THURS.PM,G206	Pillinger C.T.	MARS & OTHER REMOTE SENSING, WED.AM,G104
Nishikawa Y.	ORDINARY CHONDRITES, FRI.AM,GYM	Pillinger C.T.	PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
Ntaflos Th.	CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM	Pillinger C.T.	MARS & OTHER REMOTE SENSING, WED.AM,G104
Nuth J.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM	Pillinger C.T.	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Nutman A.P.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM	Pizzarello S.	SNC METEORITES, THURS.AM,G104
Nyquist L.E.	SNC METEORITES, THURS.AM,G104		CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
Nyquist L.E.	LUNAR HIGHLANDS, THURS.PM,G104		UREILITES & IRON METEORITES, THURS.PM,G206
D'Dell R.D.	PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104		EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
O'Keefe J.D.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206		

but J.
 escia J.B.
 escia J.B.
 escia J.B.
 dusek F.A.
 lanskey C.A.
 llack J.B.
 sin S.
 stawko S.E.
 tter A.E.
 tter D.K.
 esley M.A.
 ilutsky O.F.
 inz M.
 inz M.
 rombo C.A.
 ale B.R.
 edinova Zh.F.
 edorsky P.M.
 edousky H.B.
 aihklin A.I.
 aitala J.T.
 aitala J.T.
 ajan R.S.
 ejan R.S.
 ndra Z.
 and N.W.
 ee F.H.
 eed G.W.Jr.
 eedy R.C.
 eedy R.C.
 eedy R.C.
 eedy R.C.
 eevies J.H.
 eimold W.U.
 eynolds R.T.
 eynolds R.T.
 ietmeijer F.J.M.
 igsbee J.M.
 ingwood A.E.
 ingwood A.E.
 izk B.
 oberts M.L.
 obertson P.B.
 obin E.
 ocard F.
 occchia R.
 ode O.D.
 odionova Zh.F.
 ogers P.S.Z.

VENUS TECTONIC STYLES, MON.AM,G104
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 ORDINARY CHONDrites, FRI.AM,GYM
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 MARS CHANNELS & VOLATILES, WED.PM,G104
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 MARS & OTHER REMOTE SENSING, WED.AM,G104
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 UREILITES & IRON METEORITES, THURS.PM,G206
 EUCLIDES & ASSOCIATES, WED.PM,GYM
 NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 PLANETARY PHYSICS, FRI.AM,G206
 ORDINARY CHONDrites, FRI.AM,GYM
 PLANETARY PHYSICS, FRI.AM,G206
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 CARBONACEOUS CHONDrites: INCLUSIONS & MATRIX, MON.AM,GYM
 COSMIC RAYS, THURS.PM,G206
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 CARBONACEOUS CHONDrites, CHONDRULES & NEBULA, MON.PM,GYM
 PLANETARY PHYSICS, FRI.AM,G206
 EUCLIDES & ASSOCIATES, WED.PM,GYM
 COSMIC RAYS, THURS.PM,G206
 SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
 COSMIC DUST, WED.AM,G206
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 COSMIC RAYS, THURS.PM,G206
 IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 PLANETARY PHYSICS, FRI.AM,G206
 COSMIC DUST, WED.AM,G206
 SPACE UTILIZATION, MON.PM,GYM
 LUNAR HIGHLANDS, THURS.PM,G104
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 COSMIC DUST, WED.AM,G206
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 MARS & OTHER REMOTE SENSING, WED.AM,G104
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 COSMIC DUST, WED.AM,G206
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 COSMIC RAYS, THURS.PM,G206
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
 VENUS TECTONIC STYLES, MON.AM,G104
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 MARS CHANNELS & VOLATILES, WED.PM,G104
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 COSMIC DUST, WED.AM,G206
 THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 CARBONACEOUS CHONDrites: INCLUSIONS & MATRIX, MON.AM,GYM
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 SPACE UTILIZATION, MON.PM,GYM
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 PLANETARY PHYSICS, FRI.AM,G206
 ORDINARY CHONDrites, FRI.AM,GYM
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 EUCLIDES & ASSOCIATES, WED.PM,GYM
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 EUCLIDES & ASSOCIATES, WED.PM,GYM
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 ONSET OF ACCRETION, WED. EVE., G104
 ORDINARY CHONDrites, FRI.AM,GYM

Rossbacher L.A.
 Roth L.E.
 Roush T.L.
 Roush T.L.
 Roush T.R.
 Rubin A.E.
 Runcorn S.K.
 Rutherford M.J.
 Ryder G.
 Ryder G.
 Rzhiga O.N.
 Sagdeev R.Z.
 Salisbury J.W.
 Salpas P.A.
 Salvatet P.
 Sanko N.
 Sartori S.
 Satovsky B.L.
 Saunders R.S.
 Saunders R.S.
 Schaber G.G.
 Schaber G.G.
 Schafer F.J.
 Schafer F.J.
 Schenk P.M.
 Schlutter D.J.
 Schmidt O.YU.
 Schmidt R.M.
 Schmitt H.H.
 Schmitt R.A.
 Schmitt R.A.
 Schmitt R.A.
 Schmitt R.A.
 Schreiber H.D.
 Schroeder J.E.
 Schubert G.
 Schubert G.
 Schukolyukov Yu.A.
 Schulte W.
 Schultz L.
 Schultz P.H.
 Schultz P.H.
 Schultz P.H.
 Schultz R.A.
 Schutt J.
 Schwarz C.
 Schwehm G.
 Scott D.H.
 Scott E.R.D.
 Scott E.R.D.

MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 MARS & OTHER REMOTE SENSING, WED.AM,G104
 SPACE UTILIZATION, MON.PM,GYM
 CARBONACEOUS CHONDrites, CHONDRULES & NEBULA, MON.PM,GYM
 PLANETARY PHYSICS, FRI.AM,G206
 ORDINARY CHONDrites, FRI.AM,GYM
 LUNAR HIGHLANDS, THURS.PM,G104
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 VENUS TECTONIC STYLES, MON.AM,G104
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 MARS & OTHER REMOTE SENSING, WED.AM,G104
 PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 COSMIC DUST, WED.AM,G206
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 COSMIC RAYS, THURS.PM,G206
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
 VENUS TECTONIC STYLES, MON.AM,G104
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 MARS CHANNELS & VOLATILES, WED.PM,G104
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 COSMIC DUST, WED.AM,G206
 THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 CARBONACEOUS CHONDrites: INCLUSIONS & MATRIX, MON.AM,GYM
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 SPACE UTILIZATION, MON.PM,GYM
 THE OUTER SOLAR SYSTEM, TUES.PM,G206
 PLANETARY PHYSICS, FRI.AM,G206
 ORDINARY CHONDrites, FRI.AM,GYM
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 EUCLIDES & ASSOCIATES, WED.PM,GYM
 IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 EUCLIDES & ASSOCIATES, WED.PM,GYM
 LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 HALLEY & COMET EXPLORATION, TUES.AM,GYM
 MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
 ONSET OF ACCRETION, WED. EVE., G104
 ORDINARY CHONDrites, FRI.AM,GYM

Sears D.W.G.	ORDINARY CHONDRITES, FRI.AM,GYM	Smrekar S.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
See T.H.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206	Solberg T.C.	SNC METEORITES, THURS.AM,G104
Segatz M.	PLANETARY PHYSICS, FRI.AM,G206	Solomon S.C.	VENUS TECTONIC STYLES, MON.AM,G104
Seifert S.	LUNAR HIGHLANDS, THURS.PM,G104	Solomon S.C.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
Selianovskaya T.V.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM	Spaute D.	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
Semeniuk J.A.	MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206	Spettel B.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
Semjonova L.F.	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM	Spiridonov V.G.	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
Senske D.A.	VENUS TECTONIC STYLES, MON.AM,G104	Spivack A.J.	EXTINCT-NUCLIOE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
Settle S.A.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104	Spohn T.	PLANETARY PHYSICS, FRI.AM,G206
Sharkin O.P.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206	Spudis P.D.	SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
Sharpton V.L.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104	Spudis P.D.	PLANETARY GEOLIC PROCESSES, FRI.AM,G104
Sharpton V.L.	VENUS TECTONIC STYLES, MON.AM,G104	Squyres S.W.	PLANETARY PHYSICS, FRI.AM,G206
Shaw D.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104	Squyres S.W.	THE OUTER SOLAR SYSTEM, TUES.PM,G206
Shervais J.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104	Stakheeva S.A.	EXTINCT-NUCLIOE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
Shevchenko V.V.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104	Stakheeva S.A.	CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
Shih C.-Y.	SNC METEORITES, THURS.AM,G104	Stankevick N.P.	CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
Shih C.-Y.	LUNAR HIGHLANDS, THURS.PM,G104	Steel E.	EXTINCT-NUCLIOE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
Shih C.-Y.	SNC METEORITES, THURS.AM,G104	Steele A.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
Shipp R.	EXTINCT-NUCLIOE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206	Steele A.M.	LUNAR HIGHLANDS, THURS.PM,G104
Shkuratov Y.G.	CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM	Steele I.M.	ORDINARY CHONDRITES, FRI.AM,GYM
Shkuratov Yu.G.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104	Steinbacher R.H.	SPACE UTILIZATION, MON.PM,GYM
Shoemaker E.M.	ASTEROIDS & COMETS, THURS.PM,GYM	Stephan T.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
Shoemaker E.M.	VENUS TECTONIC STYLES, MON.AM,G104	Stephenson A.	PLANETARY PHYSICS, FRI.AM,G206
Shukla P.N.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206	Stephenson A.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Shukolyukov Yu.A.	ORDINARY CHONDRITES, FRI.AM,GYM	Stephenson L.O.	SPACE UTILIZATION, MON.PM,GYM
Shukolyukov Yu.A.	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM	Stern S.A.	DATA SYSTEMS SESSION, POSTER DISPLAYS
Shukolyukov Yu.A.	EXTINCT-NUCLIOE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206	Stern S.A.	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Shung F.	PLANETARY PHYSICS, FRI.AM,G206	Stewart G.R.	ASTEROIDS & COMETS, THURS.PM,GYM
Siben W.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206	Stievano B.M.	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
Signer P.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206	Stofan E.R.	COSMIC RAYS, THURS.PM,G206
Simmons K.	DATA SYSTEMS SESSION, POSTER DISPLAYS	Stofan E.R.	VENUS TECTONIC STYLES, MON.AM,G104
Simon S.B.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104	Stoffler D.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
Simon S.B.	LUNAR HIGHLANDS, THURS.PM,G104	Stolper E.	EUCRITES & ASSOCIATES, WED.PM,GYM
Simon S.B.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206	Stolper E.	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Simonoff G.	COSMIC RAYS, THURS.PM,G206	Stooke P.J.	EUCRITES & ASSOCIATES, WED.PM,GYM
Simpson C.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM	Strickland E.L.	CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
Singer R.B.	MARS & OTHER REMOTE SENSING, WED.AM,G104	Strickland E.L.	ASTEROIDS & COMETS, THURS.PM,GYM
Singer R.B.	THE OUTER SOLAR SYSTEM, TUES.PM,G206	Strobell M.E.	MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
Sinton W.	THE OUTER SOLAR SYSTEM, TUES.PM,G206	Strom R.G.	SNC METEORITES, THURS.AM,G104
Skaugset A.	SPACE UTILIZATION, MON.PM,GYM	Sturms F.M.Jr.	THE OUTER SOLAR SYSTEM, TUES.PM,G206
Skinner S.	MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206	Suitor J.W.	THE OUTER SOLAR SYSTEM, TUES.PM,G206
Skobeleva T.P.	PLANETARY GELOGIC PROCESSES, FRI.AM,G104	Sukhanov A.L.	SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
Skripnik A.Y.	ORDINARY CHONDRITES, FRI.AM,GYM	Sullivan R.	SPACE UTILIZATION, MON.PM,GYM
Skripnik A.Y.	EUCRITES & ASSOCIATES, WED.PM,GYM	Summers A.L.	VENUS TECTONIC STYLES, MON.AM,G104
Slade M.A.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104	Sun S.S.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
Slattery W.L.	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM	Suponeva I.V.	PLANETARY PHYSICS, FRI.AM,G206
Smith A.	SPACE UTILIZATION, MON.PM,GYM	Surkhov Y.A.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
Smith J.V.	ORDINARY CHONDRITES, FRI.AM,GYM	Sutton S.R.	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Smith J.V.	EUCRITES & ASSOCIATES, WED.PM,GYM		COSMIC DUST, WED.AM,G206
Smith M.O.	MARS & OTHER REMOTE SENSING, WED.AM,G104		EUCRITES & ASSOCIATES, WED.PM,GYM

Sutton S.R. COSMIC DUST, WED.AM,G206
 Svendsen B. PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 Swan P. COSMIC DUST, WED.AM,G206
 Swindle T.D. ORDINARY CHONDRITES, FRI.AM,GYM
 Swindle T.D. SNC METEORITES, THURS.AM,G104
 Tagai T. LUNAR HIGHLANDS, THURS.PM,G104
 Tajika E. CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 Takagi Y. IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 Takahashi K. LUNAR HIGHLANDS, THURS.PM,G104
 Takeda H. LUNAR HIGHLANDS, THURS.PM,G104
 Takeda H. EURITES & ASSOCIATES, WED.PM,GYM
 Takeda H. ASTEROIDS & COMETS, THURS.PM,GYM
 Takeda H. UREILITES & IRON METEORITES, THURS.PM,G206
 Tanaka K.L. MARS GEOLY & GEOMORPHOLOGY, TUES.AM,G206
 Tanaka K.L. MARS CHANNELS & VOLATILES, WED.PM,G104
 Tatsumoto M. LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 Taylor G.J. ORDINARY CHONDRITES, FRI.AM,GYM
 Taylor G.J. SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
 Taylor G.J. ONSET OF ACCRETION, WED. EVE., G104
 Taylor L.A. PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 Taylor L.A. LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 Taylor L.A. LUNAR HIGHLANDS, THURS.PM,G104
 Taylor S.R. COSMIC DUST, WED.AM,G206
 Taylor S.R. IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 Taylor S.R. THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 Tedesco E.F. ASTEROIDS & COMETS, THURS.PM,GYM
 Temple S. HALLEY & COMET EXPLORATION, TUES.AM,GYM
 Templin K.C. SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
 Teng R. IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 Terp F. EURITES & ASSOCIATES, WED.PM,GYM
 Teufel S. IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 Thiemens M. CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 Thiemens M.H. NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 Tholen D.J. ASTEROIDS & COMETS, THURS.PM,GYM
 Tholen D.J. HALLEY & COMET EXPLORATION, TUES.AM,GYM
 Thomas P.J. THE OUTER SOLAR SYSTEM, TUES.PM,G206
 Thomas P.J. PLANETARY PHYSICS, FRI.AM,G206
 Thompson T.W. MARS & OTHER REMOTE SENSING, WED.AM,G104
 Thompson T.W. MARS GEOLY & GEOMORPHOLOGY, TUES.AM,G206
 Thompson T.W. LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 Thornton M. PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104
 Timoshkina E.P. PLANETARY PHYSICS, FRI.AM,G206
 Tokarcik S. MARS GEOLY & GEOMORPHOLOGY, TUES.AM,G206
 Tredoux M. IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 Treiman A.H. SNC METEORITES, THURS.AM,G104
 Triplehorn D.M. IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 Tsou P. COSMIC DUST, WED.AM,G206
 Tuniz C. HALLEY & COMET EXPLORATION, TUES.AM,GYM
 Turcotte D.L. COSMIC RAYS, THURS.PM,G206
 PLANETARY PHYSICS, FRI.AM,G206

Turner G. LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
 Tyburczy J.A. IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
 Ulyanov A.A. CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 Ulyanov A.A. ORDINARY CHONDRITES, FRI.AM,GYM
 Usacheva L.V. IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 Ustinov V.I. ORDINARY CHONDRITES, FRI.AM,GYM
 Valsecchi G.B. THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 Valter A.A. IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 Van der Stap C.C.A.H. CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 Van der Stap C.C.A.H. UREILITES & IRON METEORITES, THURS.PM,G206
 Vaniman D.T. SPACE UTILIZATION, MON.PM,GYM
 Vanzani V. COSMIC RAYS, THURS.PM,G206
 Vassent B. COSMIC DUST, WED.AM,G206
 Veeder G. THE OUTER SOLAR SYSTEM, TUES.PM,G206
 VerPloeg K.T. COSMIC DUST, WED.AM,G206
 Vergo N. MARS & OTHER REMOTE SENSING, WED.AM,G104
 Verheul H. CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 Verheul H. UREILITES & IRON METEORITES, THURS.PM,G206
 Verplanck D.L. LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 Vetter S. LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 Veverka J. LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 Vickery A.M. THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 Vilas F. ASTEROIDS & COMETS, THURS.PM,GYM
 Vis R. UREILITES & IRON METEORITES, THURS.PM,G206
 Vis R.D. CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 Vitjazev A.V. THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
 Vorder Brueg R.W. VENUS TECTONIC STYLES, MON.AM,G104
 Vu MiD. EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 Wacker J.F. EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 Wagstaff J. SNC METEORITES, THURS.AM,G104
 Walker R.M. COSMIC DUST, WED.AM,G206
 Wallace R.A. SYMPOSIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
 Walsh P.A. MARS & OTHER REMOTE SENSING, WED.AM,G104
 Walter L.S. MARS & OTHER REMOTE SENSING, WED.AM,G104
 Wang D. CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 Wanke H. HALLEY & COMET EXPLORATION, TUES.AM,GYM
 Wanke H. SNC METEORITES, THURS.AM,G104
 Wark D.A. CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 Warren P.H. EURITES & ASSOCIATES, WED.PM,GYM
 Warren P.H. PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM
 Warren P.H. LUNAR HIGHLANDS, THURS.PM,G104
 Wasserburg G.J. EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
 Wasserburg G.J. CARBONACEOUS CHONDRITES: INCLUSIONS & MATRIX, MON.AM,GYM
 Wasserburg G.J. NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
 Wasserburg G.J. HALLEY & COMET EXPLORATION, TUES.AM,GYM
 Wasson J.T. CARBONACEOUS CHONDRITES, CHONDRULES & NEBULA, MON.PM,GYM
 Wasson J.T. IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
 Watson E.B. LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
 Watters T.R. MARS GEOLY & GEOMORPHOLOGY, TUES.AM,G206
 Watts A. PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104

Webb S.J.	COSMIC DUST, WED.AM,G206	Zashu S.	EXTINCT-NUCLIDE CHRONOLOGY; PRIMITIVE COMP., WED.PM,G206
Weidenschilling S.J.	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM	Zaslavskaya N.I.	UREILITES & IRON METEORITES, THURS.PM,G206
Weisberg M.K.	UREILITES & IRON METEORITES, THURS.PM,G206	Zeigler K.W.	ASTEROIDS & COMETS, THURS.PM,GYM
Weissman P.	HALLEY & COMET EXPLORATION, TUES.AM,GYM	Zemcik T.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206
Wentworth S.J.	SNC METEORITES, THURS.AM,G104	Zent A.P.	MARS CHANNELS & VOLATILES, WED.PM,G104
Wentworth S.J.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206	Zhou L.	IMPACT PHENOMENA: TERRESTRIAL OBSERVATIONS, MON.AM,G206
Wentworth S.J.	SPACE UTILIZATION, MON.PM,GYM	Zimbelman J.R.	THE OUTER SOLAR SYSTEM, TUES.PM,G206
Wentworth S.J.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206	Zimbelman J.R.	MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206
West R.M.	HALLEY & COMET EXPLORATION, TUES.AM,GYM	Zimbelman J.R.	MARS CHANNELS & VOLATILES, WED.PM,G104
Westrum E.F.Jr.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104	Zinner E.K.	COSMIC DUST, WED.AM,G206
Wetherill G.W.	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM	Zinner E.K.	NUCLEOSYNTHESIS: ISOTOPE ANOMALIES, TUES.PM,GYM
Wetherill G.W.	ASTEROIDS & COMETS, THURS.PM,GYM	Zisk S.H.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104
Wheelock M.M.	HALLEY & COMET EXPLORATION, TUES.AM,GYM	Zisk S.H.	VENUS TECTONIC STYLES, MON.AM,G104
Wichman R.	MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206	Zohar S.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
Wieler R.	LUNAR & ASTEROIDAL REGOLITHS, THURS.AM,G206	Zolensky M.E.	SNC METEORITES, THURS.AM,G104
Wiens R.C.	SNC METEORITES, THURS.AM,G104	Zolensky M.E.	CARBONACEOUS CHONDRIES: INCLUSIONS & MATRIX, MON.AM,GYM
Wiesmann H.	SNC METEORITES, THURS.AM,G104	Zolensky M.E.	COSMIC DUST, WED.AM,G206
Wiesmann H.	LUNAR HIGHLANDS, THURS.PM,G104	Zolotov M.Yu.	VENUS INTERIOR, MODELS & SURFACE GEOCHEM., MON.PM,G104
Wilhelms D.E.	MARS GEOLOGY & GEOMORPHOLOGY, TUES.AM,G206	Zook H.A.	COSMIC DUST, WED.AM,G206
Williams D.B.	UREILITES & IRON METEORITES, THURS.PM,G206	Zook H.A.	IMPACT PHENOMENA: THEORY & EXPERIMENTATION, MON.PM,G206
Williams J.G.	LUNAR MARE BASALTS AND GEOLOGY, TUES.PM,G104	Zuber M.T.	VENUS TECTONIC STYLES, MON.AM,G104
Williams S.H.	PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104	Zuber M.T.	SYMPORIUM: LUNAR GEOSCIENCE OBSERVER (LGO), TUES.AM,G104
Willis K.	LUNAR HIGHLANDS, THURS.PM,G104	Zubkov B.V.	HALLEY & COMET EXPLORATION, TUES.AM,GYM
Wilson L.	PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104	Zuckerman B.	THE SOLAR NEBULA & PLANETARY ORIGINS, THURS.AM,GYM
Winisdoerffer F.	SPACE UTILIZATION, MON.PM,GYM		
Winters R.R.	PLANETARY PHYSICS, FRI.AM,G206		
Wohrmeyer C.	EUCRITES & ASSOCIATES, WED.PM,GYM		
Wolfe R.F.	ASTEROIDS & COMETS, THURS.PM,GYM		
Wood C.A.	VENUS TECTONIC STYLES, MON.AM,G104		
Wood C.A.	HALLEY & COMET EXPLORATION, TUES.AM,GYM		
Wood C.A.	ASTEROIDS & COMETS, THURS.PM,GYM		
Wood J.A.	HALLEY & COMET EXPLORATION, TUES.AM,GYM		
Wood J.A.	ONSET OF ACCRETION, WED. EVE., G104		
Wopenka B.	COSMIC DUST, WED.AM,G206		
Woronow A.W.	PLANETARY GEOLOGIC PROCESSES, FRI.AM,G104		
Wright I.P.	SNC METEORITES, THURS.AM,G104		
Wright I.P.	CARBONACEOUS CHONDRIES: INCLUSIONS & MATRIX, MON.AM,GYM		
Wu S.S.C.	MARS CHANNELS & VOLATILES, WED.PM,G104		
Wu S.S.C.	MARS & OTHER REMOTE SENSING, WED.AM,G104		
Wu S.S.C.	THE OUTER SOLAR SYSTEM, TUES.PM,G206		
Xa J.	PLANETARY PHYSICS, FRI.AM,G206		
Ximenes S.	SPACE UTILIZATION, MON.PM,GYM		
Yakovlev O.I.	PLANETARY DIFFERENTIATION & CRUSTAL GENESIS, WED.AM,GYM		
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CONTENTS

LUNAR & PLANETARY SCIENCE CONFERENCE XVIII	page 1
New Publisher - 18th Proceedings	page 2
NASA & STScI Develop Planetarium Project	page 3
NASA, Marietta Begin Magellan Assembly Tests	page 3
COBE To Be Launched From Delta Rocket	page 4
NASA Balloon Flights	page 4
New Publications	page 5
LPI Offers New Slide Set	page 5
LPI Announces South India Field Workshop	page 7
Calendar	page 8
Lunar and Planetary Bibliography	page 12
ORDER FORM - LPI PUBLICATIONS, REPORTS, SLIDE SETS	page 21

PRELIMINARY LPSC XVIII PROGRAM

Program	APPENDIX	page i
Speaker Index	APPENDIX	page xxvii
Author Index	APPENDIX	page xxxii

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page xv



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