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lunar & planetary information bulletin

NUMBER 40 FEBRUARY 1985

LUNAR AND PLANETARY SCIENCE CONFERENCE XVI, 11-15 March 1985

The **SIXTEENTH LUNAR AND PLANETARY SCIENCE CONFERENCE** will begin Sunday March 10 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 9:30 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 497 abstracts accepted for publication in *Lunar and Planetary Science XVI*, the Program Committee has constructed 27 sessions for a total of 315 oral presentations. In general, the sessions have been structured using the following broad topics:

Regolith studies	Crustal genesis
Lunar petrology	Lunar geology
Planetary physics	Isotopic studies
Meteorite studies	Major planet satellites
Cratering and shock studies	Mars
Venus	Solar system evolution
Asteroids and comets	Cosmic dust
Remote sensing approaches	

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 on display each day of the Conference in the Gilruth Center. A preliminary list of the poster exhibits now scheduled is included in the program. If anyone has exhibit material which is not part of the official poster session, but which they would like to display, please contact Pam Jones, at the LPI (713-486-2150) for a space allocation.

The Lunar Sample Curator and his staff will offer a lunar sample field trip to a limited number of attendees during the LPSC. On the field trip lunar rocks that were exposed on slabs cut from breccia samples in the Apollo 14, 16, and 17 collections will be on view in nitrogen cabinets in the Lunar Sample Processing Laboratory. The opportunity is limited as only ten people at a time can be accommodated on each trip. See the Building 31 exhibit in Gilruth registration area for more information.

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

Sunday - March 11

There will be a meeting of the Ganymede Mappers from 8:30 am to 5:00 pm in the Hess Room at the LPI.

Al Binder will chair a meeting on the Lunar Base in the Berkner Room, LPI, from 1:00-4:00 p.m.

A meeting of the MECA steering committee will be held in the Blue Room, LPI, at 3:00 p.m.

There will be a meeting of the Meteoritical Society Council in the Hess Room, LPI, 7:30-10:00 p.m.

Monday - March 12

Special sessions at the conference include a Florensky Memorial Symposium on Monday morning and the Shergotty Consortium on Monday afternoon.

A keg session to discuss future planetary programs will be held Monday evening in the Gilruth Center Auditorium, at 8:00 pm. Speakers for the evening include: G. Briggs (NASA-HQ) *NASA Planetary Programs;* V. Barsukov (USSR) *USSR Planetary Programs;* and R. Greeley (ASU) *Toward a Space Station Planetary Simulation Laboratory*

Tuesday - March 13

Tuesday evening is Chili Cook-Off/Bar-B-Q time. This much heralded event potentially returning for the fifth time will be held on the grounds of the LPI. Paid registrants of the Conference are welcomed at the Chili Cook-Off festivities. Guests of registrants may purchase a ticket at the Conference registration desk for $10.00. Team applications are still being accepted. The Chili Cook-Off will be held only if enough teams sign up for the competition. Prizes will be awarded based on the best tasting chili not according to absolute "Texas Standards". Rain date will be Thursday, March 14.

The Regional Planetary Image Facility librarians will meet during the day in McGetchin Hall, RPIF, at the LPI. A combined meeting of the RPIF directors and librarians will take place in the evening.

Wednesday - March 13

The JSC Astronomer's Brownbag Lunch Club will present Jim Oberg in the Conference Room, Room 193, Building 31 at Noon. Mr. Oberg will speak on *Future Soviet Lunar Capabilities.*

European Scientists Meeting chaired by Dr. Keith Runcorn, University of Newcastle-on-Tyne will convene at the LPI from 5:30 to 6:30 pm in the Berkner Room, LPI. Colleagues from all countries are invited to attend.

Thursday - March 14

The Lunar and Planetary Science Conference Forum convened by the Planetary Meetings Steering Committee (PMSC) will be held from 8:00 to 10:00 p.m. in the Gilruth Center auditorium. If it rains on Tuesday, this meeting will be held on Tuesday evening and the Chili Cook-Off/Bar-B-Q will be held on Thursday.

ABSTRACTS—Lunar and Planetary Science XVI

A staple-bound advance copy of abstracts will be sent before the conference to the U.S. corresponding author of an abstract selected for oral presentation. It is suggested that this copy be shared among the author's colleagues. If this would result in multiple copies, only one will be sent.

Abstracts 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.

Please use the order form included in this Bulletin and mail with payment to the Library Information Center at the LPI.

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

LUNAR AND PLANETARY SCIENCE CONFERENCE FORUM

In the November issue of the *Bulletin* suggestions for topics to be placed before the LPSC Forum were solicited. A summary of some of the major responses received to date appears at the end of this article in a "point/counterpoint" format. These issues, plus others raised between now and the conference will be placed on the Forum agenda. The Forum has been scheduled for Thursday evening, March 14, from 8:00-10:00 p.m. Refreshments will be provided.

The formation of the *LPSC Forum* as an annual Conference event is a direct result of members of the lunar and planetary science community expressing their concerns in a concrete manner for the future of the conference. The Planetary Meetings Steering Committee (PMSC) was formed in the spring of 1983 in response to similar community-wide concerns. The first major issue the PMSC addressed was to broaden the sponsorship of the conference beyond that of NASA. Since its formation the PMSC has added as LPSC sponsors the Division for Planetary Science of the American Astronomical Society (DPS), the American Geophysical Union (AGU), the Geological Society of America (GSA), the Meteoritical Society, and the International Union of Geological Sciences (IUGS). Each sponsoring society, together with the NASA-Johnson Space Center and the LPI, appoints a representative to serve on the PMSC.

The committee's stated goals are to:
1) monitor the significant trends and themes in planetary science to provide a long-term overview to the participating societies for the organization of scientific meetings;
2) promote communication and coordination among member societies regarding annual meetings in planetary science, and
3) provide recommendations regarding the organization of the Annual Lunar and Planetary Science Conference.

Some specific tasks under point 3 include suggesting potential special sessions for the LPSC, discussing and making recommendations regarding the meeting publications, and appointing representatives of each society to serve on the LPSC Program Committee. The PMSC will convene the Forum and serve to implement the recommendations finding consensus among the community.

In an open letter to the community mailed in early January, Kevin Burke, convener of the PMSC, asked for input regarding the conference *Proceedings* If you did not receive the letter, it is reproduced together with a questionnaire elsewhere in this issue of the *Bulletin.* The questionnaire should be completed and returned to the LPI Publications Office.

Please take time to make your needs and concerns known prior to the Conference Forum so that they can be included on the agenda. Comments or suggestions can be conveyed to any member of the PMSC, or to the LPI Projects Office. 1985 members of the PMSC include Robin Brett (GSA); Kevin Burke (LPI/Convener); Joseph Burns (DPS); Michael Duke (NASA Johnson Space Center); James W. Head (IUGS); Pamela Jones (LPI); Larry Soderblom (AGU); and George Wetherill (Meteoritical Society).

See you Thursday at the Forum!

Pam Jones,
for the Planetary Meetings Steering Committee.

P O I N T

1. THE NEED FOR SHORT ABSTRACTS AT THE LPSC

The primary function of a scientific meeting is to facilitate communication between scientists. At meetings attended by more than 50 to 100 scientists, positive effort is required to accomplish this effectively. One such effort should be making available brief (i.e. about 200 word) abstracts of the oral presentations. These abstracts should be sent to ALL advance registrants in ample time to be read before the meeting, rather than being sent to a limited number of attendees at (or after) the last minute. Then one could more easily select sessions to attend, and use the intervals between oral presentations to prepare oneself for the next talk by reading and reflecting on the subject for a few minutes. In this way more will be learned from the talk, thereby permitting a more useful dialogue during the formal discussion, and in more informal discussions later. In some cases, valuable informal discussion before the oral talks would be facilitated and the value of the presentation enhanced.

The present lengthy abstract volumes do not fill this need. Many participants are at present ineligible to receive advance copies. Even those who are eligible often do not receive them before they have left for the conference. The approximately 1000 pages of single-spaced, often photoreduced, material is impossible to read during the meeting, let alone to digest and think about. The physical bulk of the volumes makes them terribly inconvenient to carry to the sessions. Regardless of whether or not one believes that unreviewed extended abstracts are an appropriate form of scientific publication, abstracts that are a useful aid to communication at the meeting are needed. Such abstracts are provided to participants at almost all other scientific meetings, and there is no reason to deny them to those attending the LPSC.

2. THE ABSENCE OF NEED FOR EXTENDED ABSTRACTS AT THE LPSC

As discussed above, these lengthy abstracts do not fulfill the need for abstracts that are useful at the meeting. A secondary question is whether, on balance, they serve a good purpose at all. Their only remaining function is that of an annually published journal of short contributions. This designation as a "journal" is particularly appropriate inasmuch as a large fraction of the abstracts are not even on the oral or poster program. The question is then whether the abstract volume is a good journal or a poor one.

I believe the latter is the case. Its most vulnerable aspect is that it is unreviewed. (I don't believe anyone would claim that the program committee reviews these papers in the normal way). I am not saying that the extensive reviewing procedures of the established journals precludes the publication of poor papers. However such reviewing, in combination with the greater care resulting from the author's knowledge that his paper will be reviewed, causes papers in these journals to be of much higher average quality than those in the abstract volumes. Additional factors contributing to this situation are hasty preparation of the abstracts to meet a deadline, the fact that the deadline need not correspond to the stage in the work when it is ready for publication, and the arbitrary restriction in length, regardless of how much length is required to present the material adequately.

The commonly-heard claim that valuable data is often published only in these volumes should be turned around. The fact that it is printed in the abstract volume (not always in final corrected form) is used as an excuse for not publishing it properly. If it is believed that a "letters" journal, adhering to normal professional standards, is needed in this field, then the means for providing this should be discussed. On the other hand, I don't think this Committee (the Planetary Meetings Steering Committee), and the Societies it represents, are behaving in a responsible manner to assert that these unreviewed manuscripts constitute referencable publications that stand on their own as scientific publications. Even less excusable is our REQUIRING that those wishing to present a paper at the LPSC participate in, and thereby lend their support to, this unprofessional procedure.

C O U N T E R - P O I N T

THE NEED FOR EXTENDED ABSTRACTS FOR THE LUNAR AND PLANETARY SCIENCE CONFERENCE

The primary function of a scientific meeting is to facilitate communication among scientists. Extended abstracts are an effective means of communication before, during, and after a presentation. They augment verbal presentations and discussions, allowing conference attendees to understand points they may otherwise

miss. Skimming an extended abstract before a presentation allows the reader to discern its intended contents almost as easily as does reading a 200-word abstract, and specific arguments can be followed in more detail as the reader wishes. Extended abstracts allow space for diagrams, tables, and references which readers can peruse at their leisure and later follow up, in contrast with short abstracts which are necessarily superficial in treatment. Participants and non-participants alike can find out the contents of a presentation which circumstances forced them to miss, common with the multiple and interesting sessions of the Lunar and Planetary Science Conference (LPSC).

The extended abstracts for the LPSC form a permanent record of the Conference, unlike short abstracts. They are useful for people who cannot attend the meeting but are interested in ongoing work in planetary science. Abstract volumes are still prominent on workers' bookshelves and are still in use after many years, unlike the abstracts of virtually all other meetings. Many abstracts never become full papers. Reports from excellent laboratories are of high quality even though unrefereed. These abstracts are frequently referenced.

Abstracts are a good forum for unconventional ideas which the formal and conservative peer review process frequently suppresses. Non-presented abstracts are also an effective way of communicating other on-going work which may not be ready for publication as a paper.

No system is perfect. The present extended abstract volumes are undoubtedly bulky, and have grown so during the expansion of the subject matter of the Conference. Possibly reorganization of the 2 volumes, into related or time-sequenced topics rather than purely alphabetical, could reduce the burden by allowing many participants to carry around only one volume. Authors do not HAVE to write two pages but perhaps feel that their abstract would be considered unsubstantive or inferior by the Program Committee if it were shorter. Perhaps single page abstracts from those who prefer them could be encouraged. Nonetheless, a real hatchet-job would be required to reduce the total bulk significantly. There is a problem with time available before the meeting to allow participants to read the abstracts, a consequence of the short time between program formation and the meeting itself. Perhaps another week could somehow be inserted. Rules on mailings could be modified to allow greater pre-meeting availability.

Surveys over recent years have shown that Lunar and Planetary Science Conference attendees are overwhelmingly in favor of extended abstracts. Their advantages as a means of both rapid and long-lasting scientific communication far outweigh any perceived disadvantages. Their elimination would be a loss to the Planetary Program and to the unique nature of the LPSC itself.

INTERNATIONAL WORKSHOP ON ANTARCTIC METEORITES

Scientists interested in Antarctic meteorites are invited to attend an *International Workshop* to be held in Mainz, F.R.G. July 11-13, 1985. The workshop is scheduled before the Meteoritical Society meeting in Bordeaux, July 16-19, 1985.

The following topics are suggested for presentations:

1. Field Occurrence and Collection
2. Analysis of Antarctic Meteorites
3. Ice Dynamics and Meteorite Properties
4. Concentration Mechanisms
5. Curation and Distribution

For more information, contact:

Ludolf Schultz
Max-Planck-Institut für Chemie
Saarstrasse 23
D-6500 Mainz, F.R.G.

or

John O. Annexstad
Code: SN2
NASA/Johnson Space Center
Houston TX 77058 USA

ASTRONOMY WORKSHOP FOR TEACHERS

The Astronomical Society of the Pacific and UCLA's Department of Astronomy and University Extension will sponsor a national workshop on astronomy for elementary and secondary teachers and librarians on April 27-28, 1985 at the University of California, Los Angeles. The nontechnical workshop is designed to equip participants, no matter what their science background, with an array of effective tools for incorporating astronomy into their classroom work. The program is being offered in memory of George Abell, the noted UCLA astronomer who devoted much of his professional life to fostering astronomy education.

The Saturday session will be a hands-on seminar about specific classroom activities and resources in astronomy that teachers at all levels can put to immediate use. On Sunday, six prominent astronomers will give a series of illustrated, introductory lectures on new developments in our understanding of the universe. Topics to be covered include the return of Comet Halley, black holes, Stonehenge and other ancient astronomical sites, and the infrared universe.

Credit for the workshops will be available through the UCLA Extension.

For more information and a registration form, write to:

Teacher's Workshop
A.S.P.
1290 24th Avenue
San Francisco CA 94122

SPECIAL SESSION AT MAS-EMS CONFERENCE—AUGUST 1985

A special symposium on *Microbeam Analysis Techniques in the Study of Lunar, Meteorite, and Cosmic Dust Samples* will be held during the 1985 joint meeting of the Microbeam Analysis Society and the Electron Microscopy Society of America in Louisville, Kentucky, 5-9 August 1985. Sessions will be devoted to retrospective looks at the development of microbeam analysis techniques and their impact on the understanding of geological and planetary materials, as well as to the latest developments in instrumental and quantitative analysis techniques.

For information regarding the meeting, please contact John Armstrong, Caltech, Geology Dept., Pasadena, California 91125 (818)356-6253, 6139; or Art Chodos, same address, (818)356-6127. Extended abstracts of contributed papers should be mailed to John Armstrong by about 15 March 1985.

TENTH SYMPOSIUM ON ANTARCTIC METEORITES

The *Tenth Symposium on Antarctic Meteorites* will be held at the National Institute of Polar Research, Japan, on March 25-27, 1985. The aim of this symposium is to present the recent outcome of research on the Antarctic meteorites, in particular the Yamato meteorites and others retrieved from Victoria Land. General and topical sessions dealing with new data from non-Antarctic meteorites and planetary researches will be included.

All presented papers will be published as the Proceedings of this Symposium by the National Institute of Polar Research.

Details of the symposium can be obtained from Dr. Keizo Yanai, National Institute of Polar Research, 9-10 Kaga 1-chome, Itabashi-ku, Tokyo 173 Japan.

48th ANNUAL MEETING—METEORITICAL SOCIETY

The University of Bordeaux, France, will be the site of the *48th Annual Meeting of the Meteoritical Society* from July 16 to July 19, 1985. General and topical sessions dealing with new results from meteorite, lunar and planetary research (including of course all types of "Martian" samples) will be scheduled during the four-day meeting.

The deadline for abstracts is May 10, 1985.

For more information contact: G. Simonoff, Universite de Bordeaux I, C.E.N.B.G., Le Haut-Vigneau, 33170 Gradignan (France).

COMMISSION ON COMPARATIVE PLANETOLOGY

At the 27th International Geological Congress held in Moscow, 4-14 August, 1984, the International Union of Geological Sciences (IUGS) approved the formation of a new Commission on Comparative Planetology. Ths commission replaces the IUGS Advisory Committee on Comparative Planetology which was initiated in 1980.

The formation of this new Commission recognizes that planetary bodies are no longer viewed simply as astronomical objects but are now also geological objects and that the geologic record of other planets complements the preserved record on Earth. Planetary studies and the techniques used to study planets have also helped place the Earth in the context of an evolving planetary body and raised significant questions about terrestrial geologic problems. Some examples include the increased awareness of the role of random events, such as impacts, in the geologic record of the Earth, the genesis of the crust in early Earth History and the use of a variety of remote sensing data to characterize and understand geologic processes. A major objective ot the Commission is to stimulate and coordinate research efforts on such topics in the international community.

The chairman of the Commission on Comparative Planetology is J.W. Head, III (U.S.A.). A.T. Basilevsky (USSR) is vice-chairman and R.A.F. Grieve (Canada) is secretary.

Through the Commission, IUGS will act as a cosponsor to the annual Lunar and Planetary Science Conference. Further information on future activities and details of the Commission can be obtained from:

J.W. Head
Dept. Geological Sciences
Brown University
Providence RI 02912, USA

or

R.A.F. Grieve
Earth Physics Branch
Dept. of Energy, Mines & Resources
Ottawa, Ontario K1A 0Y3, Canada

EVOLUTION OF THE MARTIAN CLIMATE WORKSHOP

Members of the Study Project on *Mars: the Evolution of its Climate and Atmosphere* (MECA) will hold a workshop "Evolution ofthe Martian Climate" during a two-day break of the International Association of Meteorology and Atmospheric Physics and the International Association for the Physical Sciences of the Ocean (IAMAP/IAPSO) Joint Assembly being held August 5-16, 1985, in Honolulu, Hawaii. The workshop results will then be presented during a session of the IAMAP/IAPSO Assembly. The dates for the workshop are tentatively set for August 10-11. It is expected that most of the papers presented to the IAMAP/IAPSO Joint Assembly will deal with Mars and that MECA

workshop attendees will benefit by the exchange of information at the Assembly and by the participation in the workshop of invited IAMAP representatives.

The LPI sponsored workshop will be convened by Drs. Michael Carr, Conway Leovy, and Robert Pepin; local organizers will be Drs. Fraser Fanale and Philip James. Abstracts submitted to the workshop will be compiled into an abstract volume by LPI for distribution at the workshop. An LPI Technical Report including revised abstracts and a meeting summary will be published following the workshop.

TOPICAL CONFERENCE ON "HEAT AND DETACHMENT IN CRUSTAL EXTENSION ON CONTINENTS AND PLANETS"

This topical conference will be held October 10-12, 1985, in Sedona, Arizona. Conference conveners are Drs. Ivo Lucchitta and Larry Soderblom, USGS, Flagstaff, and Dr. Paul Morgan, Purdue University. The goal of the conference is to bring together people who can provide field, experimental and theoretical information on the subject of continental extension with the focus on specific mechanisms that are likely to play a major role in controlling the style of continental extension. The conference will be the third in a series that has already explored plateau uplift and processes of planetary rifting. A field trip is being planned following the conference to take advantage of nearby areas of interest including possible trips to the Grand Canyon and Verde Valley, or an overflight across and along the boundary between the craton (Colorado Plateau) and the adjacent Basin and Range Province. An abstract volume will be produced by LPI for distribution at the conference. Proceedings of the conference may be published in a special journal issue.

LPI SUMMER INTERN PROGRAM - 1985

The Lunar and Planetary Institute offers selected undergraduates an opportunity to participate actively in lunar and planetary research with scientists at the Institute and at the NASA Johnson Space Center. The ten-week program begins June 10 and ends August 16, 1985, although these dates can be adjusted somewhat to fit individual schedules.

Elegibility and selection criteria

Undergraduates, including class of 1985 graduates, are eligible and will be considered for appointment without regard for race, creed, color, sex, national origin, age, handicap status or other non-merit factor. Selection is based upon the following criteria: (1) scholarship, curriculum and experience, (2) career objectives and scientific interests, and (3) match of interests of applicant with available research projects. Notification of selection will be made by April 15, 1985.

Potential areas of research

Cosmic dust characterization, meteorites and their origins, properties of planetary regolith, chemistry of Martian soil analogs, planetary volcanism, geophysical data analysis and modeling, geochemistry, petrology, experimental petrology, processing of remote sensing data and images, photogeology, tectonics and tectonic processes, planetary impact cratering, spectroscopic observations of planetary surfaces, and planning future lunar and planetary exploration. Each project will be directed by an LPI or JSC scientist.

Application deadline is March 18, 1985.

Please send a brief biographical sketch, a description of academic goals, career plans and scientific interests, and a summary of why you wish to participate in the intern program. Application forms may be requested from Mrs. Pam Jones at LPI. In addition, arrange for official transcripts and three letters of recommendation covering academic achievement, career potential and character to be sent to:

SUMMER INTERN PROGRAM
The Lunar and Planetary Institute
3303 Nasa Road 1
Houston, TX 77058-4399

Questions concerning the program should be directed to Mrs. Pam Jones, (713)486-2150.

LIBRARY CAUTIONS PUBLIC ON STAR REGISTRATION SCHEMES

The Copyright Office of the Library of Congress has returned a reel of microfilm submitted for copyright by the International Star Registry of Northfield, Illinois, and closed the file on the firm's application. The microfilm contained a list of names of individuals who paid a fee to the company to register a star in their name.

Since the company was founded in June 1979, an estimated 100,000 people have paid $25-$35 each with the understanding that a star in their name "will be listed in a book which will be copyrighted at a later date in the Library of Congress of the United States of America," according to the firm's recent promotional literature and correspondence.

According to John Kominski, General Counsel to the Library of Congress, many organizations have sought to trade on a certain authenticity falsely associated with

copyright in the Library of Congress. Among these firms are the Cheon Star Educational Trust of Houston, Texas; Star Registration Systems International, also of Houston; Star Tracing and Registraton System of Hinsdale, Illinois; Firerose Cosmic Tombstone of San Rafael, California; and an organization calling itself "The Bureau of Deceased Americans." It should be pointed out that a copyright registration does not guarantee the authenticity of the information contained in those works.

The International Star Registry's application file has been closed due to the company's failure to respond to a request for clarification of authorship of the list of names it submitted for copyright. As a compilation, the list is eligible for copyright, much like any phone book, mailing list, or any other extensive list of names.

It is important to note, however, that such copyright protection extends only to the authorship of the compilation and not to the association of any proper name with any star or planetary feature. Theoretically, the same star could be 'sold' to two different individuals by two different star registration systems without any copyright violation.

As pointed out by the Science and Technology Division of the Library the only official organization that gives designations to planetary features is the International Astronomical Union.

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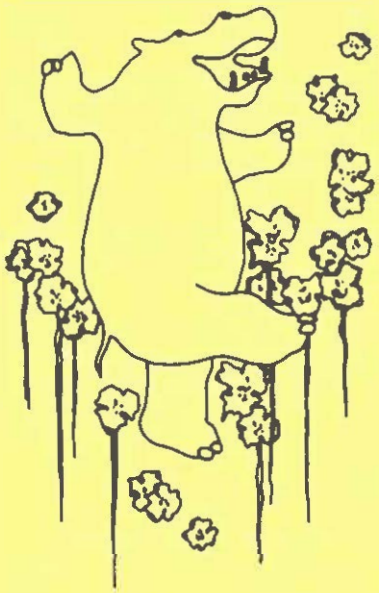
NOTE TO OUR READERS: *PLEASE* let us know when you move. Each change of address which we get through the postal service costs us $.25-$.80 in return postage costs. Because of the high costs of postage, we will make the address change on our list but we will no longer send the current issue out to you on a straight third or first class mailing. This means you will miss receiving whatever mailing from the LPI we get from the Post Office with your change of address.

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: Mailist, 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. 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 26, 1985. 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. Waranius
Lunar and Planetary Institute
3303 NASA Road One
Houston, TX 77058-4399
Phone: 713/486-2135



calendar

March 13	Deadline for abstracts for Spring AGU meeting.	See meeting note May 27-31.
MARCH 11-15	XVIth LUNAR AND PLANETARY SCIENCE CONFERENCE, Houston Texas.	(See front page this *BULLETIN* for information)
March 25-27	Tenth Symposium on Antarctic Meteorites, National Institute of Polar Research. Tokyo Japan.	Dr. Keizo Yanai, NIPR , 9-10 Kaga 1-chome, Itabashi-ku, Tokyo, 173 Japan.
April 1-4	European Union of Geosciences EUG III, Strasbourg.	Organising Committee, Dept. of Earth Sciences, University of Cambridge, Downing Street, Cambridge, Great Britain CB2 3EQ (Tel: (0223)355463; Telex No. 81240 CAMSPL G)
April 9-20	NATO Advanced Study Institute: Physics of Planets: Their Origin, Evolution and Structure. University, Newcastle-upon-Tyne, Great Britain.	Administrative Assistant, Institute of Lunar and Planetary Science, School of Physics, The University, Newcastle-upon-Tyne, UK NE1 7RU
April 26-28	Fourth Annual Space Development Conference Washington, DC	L-5 Conference, 6812 Wilson Lane, Bethesda MD 20817
April 27-28	ASP Astronomy Workshop for Teachers, University of California—Los Angeles.	Teacher's Workshop, Astronomical Society of the Pacific, 1290 24th Avenue, San Francisco, CA 94122
April 29	Deadline for abstracts for LPI Topical Conference on Heat and Detachment in Crustal Extension on Continents and Planets.	
May 8-11	Princeton/AIAA/SSI 7th Conference on Space Manufacturing, Princeton University, New Jersey.	B.A. Lehman, Space Studies Institute, P.O. Box 82, Princeton NJ 08542.
May 27-31	American Geophysical Union Spring Meeting, Baltimore, Maryland. Abstracts due early March.	AGU, 2000 Florida NW, Washington DC 20009.
June 2-6	166th Meeting American Astronomical Society, Charlottesville Virginia.	Laurence Frederick, University of Virginia.
June 5-7	Conference on Terrestrial Planets: Comparative Planetology, Ramo Auditorium, California Institute of Technology, Pasadena California.	David J. Stevenson, Division of Geological and Planetary Sciences, Caltech 170-25, Pasadena CA 91125. (Tel: 818-356-6534)

June 19-30	**Workshop on the Earth's Oldest Rocks,** and Field Trip, Greenland.	Projects Office, LPI, 713-486-2150
July 11-13	**International Workshop on Antarctic Meteorites** Mainz, Germany.	Ludolf Schultz, MPI fur Chemie, Saarstrasse 23, D-6500 Mainz, F.R. Germany. or John O. Annexstad, Code SN2, NASA/Johnson Space Center, Houston TX 77058 USA
July 16-19	**48th Annual Meeting—Meteoritical Society,** Bordeaux, France.	G. Simonoff, Universite de Bordeaux I, C.E.N.B.G., Le Haut-Vigneau, 33170 Gradignan, France.
August 5-9	**Microbeam Analysis Techniques in the Study of Lunar, Meteorite, and Cosmic Dust Samples,** Louisville, Kentucky.	John Armstrong, Caltech, Geology Department, Pasadena, CA 91125; (818) 356-6253, 6139.
September 16-21	**IAVCEI Scientific Assembly, Potassic Volcanism, Mt. Etna Volcano,** Giardina, Nexos, Italy.	1985 IAVCEI Assembly, c/o EGA Congress, Piazza Trento, 2, 95128 Cantania, Italy
October 10-12	**Conference on Heat and Detachment in Crustal Extension on Continents and Planets,** Sedona, Arizona.	LPI, Projects Office, 713-486-2150.
October 21-28	**Division for Planetary Sciences,** American Astronomical Society, Baltimore Maryland	

1986

February 1-9	**International Volcanological Congress,** Auckland-Hamilton-Rotorua, New Zealand.	Dr. J.A. Gamble, Dept. of Geology, Victoria University of Wellington, Private Bag, Wellington, New Zealand.
June 1-6	**Third International Conference on Geoscience Information,** Adelaide, South Australia.	The Secretary, Third ICGI, Australian Mineral Foundation, Private Bag 97, Glenside, South Australia 5065, Australia.
June 30-July 4	**Sixth International Conference on Geochronology, Cosmochronology and Isotope Geology,** Cambridge, England.	Organising Committe, 6th International Conference, Dept of Earth Sciences, University of Cambridge, Downing Street, Cambridge CB2 3EQ, England.
October 27-31	**20th ESLAB Symposium on the Exploration of Halley's Comet,** Heidelberg, West Germany.	Dr. R. Reinhard, Space Science Dept. of ESA, ESTEC, Postbus 299, 2200 AG Noordwijk, The Netherlands.

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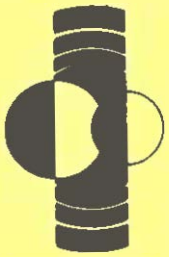

January 9, 1985

Dear Colleague:

The Planetary Meetings Steering Committee (representing the various sponsors of the LPSC) has set up a publications subcommittee to advise on the conference proceedings. We have been fortunate in persuading Robin Brett (Chairman), Mike Drake, and Ross Taylor, all of whom have extensive experience in handling publication-related matters, to serve as this committee. In order to help them do their job and to ensure that decisions are well informed, I would appreciate your taking time to fill in the attached questionnaire and return it to LPI.

We realize there are more interesting ways to spend time than filling in questionnaires, but we really need your opinion. Submissions to LPSC have fallen off over the past few years (since LPSC IX) even though the number of abstracts submitted has increased. This year submissions appear to have levelled off. Your responses to the questionnaire may help the publications subcommittee in advising on how best publications of the conference can be achieved in the future.

Please take a couple of minutes to fill out the form -- your responses will be used.

Sincerely,

Kevin Burke

Kevin Burke
Director

KB/kh

enc

LPSC PROCEEDINGS QUESTIONNAIRE

1. Over the past 5 years, how many abstracts have you submitted to LPSC?

   None 1 2 3 4 5 6 7 8 9 More

   How many of these abstracts have resulted in papers published in other journals? _____ What journals?_____

   Why did you choose publication in these other journals over the Proceedings?

   _____lower page charges

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   _____other _____

2. Do you believe there should be a continued separate publication of LPSC Proceedings? _____yes _____no

3. How would you rate the scientific quality of the Proceedings?

   a. high b. moderate c. low

4. How would you improve the scientific quality of the Proceedings?

5. If we are to continue publication of the Proceedings, we should use:

   a. JGR

   b. other:

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   _____bimonthly or quarterly issues of a specially created journal

   _____hardbound book devoted entirely to the Proceedings

Please write any comments you may have relevant to publication of LPSC Proceedings on the reverse side of this form. Thank you for taking time to complete this survey -- your comments are appreciated.

RETURN TO: LPI, PUBLICATIONS DEPT., 3303 NASA 1, HOUSTON, TX 77058

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THE MOON

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ICARUS VOL. 60, 449-454 (1984)

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SPACE EDUCATION VOL. 1, 355-358 (1984)

IRVINE,W.M. + ABRAHAM,Z. + A'HEARN,M. + ALTENHOFF,W. + ANDERSSON,CH. + BALLY,J. + BATRLA,W. + BAUDRY,A. + BOCKELEE-MORVAN,D. + CHIN,G. + CROVISIER,J. + DE PATER,I. + DESPOIS,D. + EKELUND,L. + GERARD,E. + HASEGAWA,T. + HEILES,C. + HOLLIS,J.M. + HUCHTMEIER,W. + KAIFU,N. + LEVREAULT,R. + MASSON,C.R. + PALMER,P. + PERAULT,M. + RICKARD,L.J. + SARGENT,A.I. + SCALISE,E. + SCHLOERB,F.P. + SCHMIDT,J. + STARK,A.A. + STEVENS,M. + STUMPFF,P. + SUTTON,E.C. + SWADE,D. + SYKES,M. + TURNER,B. + WADE,C. + WALMSLEY,M. + WEBBER,J. + WINNBERG,A. + WOOTTEN,A. (DEPT. OF PHYSICS AND ASTRONOMY, UNIV. OF MASSACHUSETTS, AMHERST, MA 01003): RADIOASTRONOMICAL OBSERVATIONS OF COMETS IRAS-ARAKI-ALCOCK (1983D) AND SUGANO-SAIGUSA-FUJIKAWA (1983E)
ICARUS VOL. 60, 215-220 (1984)

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ICARUS VOL. 60, 386-390 (1984)

LUST,R. (MAX-PLANCK-INSTITUT FUR PHYSIK IND ASTROPHYSIK, INSTITUT FUR ASTROPHYSIK, KARL-SCHWARZSCHILD-STRASSE 1, D-8046 GARCHING BEI MUNCHEN, FRG): THE DISTRIBUTION OF THE APHELION DIRECTIONS OF LONG-PERIOD COMETS
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EARTH, MOON, AND PLANETS VOL. 31, 301-311 (1984)

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WALLIS,M.K. (DEPT. OF APPLIED MATHEMATICS AND ASTRONOMY, UNIVERSITY COLLEGE, CARDIFF CF1 1XL, UK): ROTATION OF COMETARY NUCLEI; AND DISCUSSION
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ICARUS VOL. 60, 522-531 (1984)

WILSON,A. RENDEVOUS WITH GIOTTO
SPACE EDUCATION VOL. 1, 359-363 (1984)

OTHER OBJECTS. METEORITES

ARDEN,J.W. + CRESSEY,G. (DEPT. OF GEOLOGY AND MINERALOGY, UNIV. OF OXFORD, PARKS ROAD, OXFORD OX1 3PR, UK): THALLIUM AND LEAD IN THE ALLENDE C3V CARBONACEOUS CHONDRITE. A STUDY OF THE MATRIX PHASE
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PROCEEDINGS OF THE FIFTEENTH LUNAR AND PLANETARY SCIENCE CONFERENCE, PART 1 JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 89, SUPPLEMENT, PAGES C313-C321, NOVEMBER 15, 1984 (1984)

CLAYTON,R.N. + MAYEDA,T.K. + RUBIN,A.E. (ENRICO FERMI INST., UNIV. OF CHICAGO, CHICAGO, IL 60637): OXYGEN ISOTOPIC COMPOSITIONS OF ENSTATITE CHONDRITES AND AUBRITES
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DIEHANN,E. + ARNDT,J. (FAKULTAT FUR CHEMIE, UNIVERSITAT BIELEFELD, 4800 BIELEFELD, FRG): DIALECTIC LABRADORITE GLASS FROM THE MANICOUAGAN IMPACT CRATER: II. X-RAY DIFFRACTION STUDIES AND STRUCTURAL MODEL
PHYSICS AND CHEMISTRY OF MINERALS VOL. 11, 178-181 (1984)

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GEOCHIMICA ET COSMOCHIMICA ACTA VOL. 48, 2651-2658 (1984)

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PROCEEDINGS OF THE FIFTEENTH LUNAR AND PLANETARY SCIENCE CONFERENCE, PART 1 JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 89, SUPPLEMENT, PAGES C299-C312, NOVEMBER 15, 1984 (1984)

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GEOCHIMICA ET COSMOCHIMICA ACTA VOL. 48, 2247-2264 (1984)

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GEOCHIMICA ET COSMOCHIMICA ACTA VOL. 48, 2739-2766 (1984)

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ICARUS VOL. 60, 115-126 (1984)

SCOTT,E.R.D. (INST. OF METEORITICS, UNIV. OF NEW MEXICO, ALBUQUERQUE, NM 87131): ORIGINS OF SIONY-IRON METEORITES
NATURE VOL. 311, 708 (1984)

OTHER OBJECTS. METEORITES (Cont.)

SEARS,D.W.G. + BAKHTIAR,N. + KECK,B.D. + WEEKS,K.S. (DEPT. OF CHEMISTRY, UNIV. OF ARKANSAS, FAYETTEVILLE, AR 72701): THERMOLUMINESCENCE AND THE SHOCK AND REHEATING HISTORY OF METEORITES -- II: ANNEALING STUDIES OF THE KERNOUVE METEORITE
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GEOCHEMISTRY INTERNATIONAL VOL. 21(3) 32-41 (1984)

VOSHAGE,H. (MAX-PLANCK-INSTIUT FUR CHEMIE, POSTFACH 3060, D-6500 MAINZ, FRG): INVESTIGATIONS OF COSMIC-RAY-PRODUCED NUCLIDES IN IRON METEORITES, 6. THE SIGNER-NIER MODEL AND THE HISTORY OF THE COSMIC RADIATION
EARTH AND PLANETARY SCIENCE LETTERS VOL. 71, 181-194 (1984)

ZABOLOTNIKOV,V.S. (V. P. ENGEL'GARDT ASTRONOMICAL OBSERVATORY, USSR): PROBLEM OF TAKING ASTRONOMICAL SELECTION INTO ACCOUNT IN INVESTIGATIONS OF THE DISTRIBUTIONS OF THE ORBITAL ELEMENTS OF SPORADIC METEOR PARTICLES
SOLAR SYSTEM RESEARCH VOL. 18, 35-42 (1984)

OTHER OBJECTS. COSMIC DUST, PARTICLES, ETC.

BRADLEY,J.P. + BROWNLEE,D.E. + FRAUNDORF,P. (WALTER C. MCCRONE ASSOCIATES, INC., 2820 SOUTH MICHIGAN AVE., CHICAGO, IL 60616): DISCOVERY OF NUCLEAR TRACKS IN INTERPLANETARY DUST
SCIENCE VOL. 226, 1432-1434 (1984)

BROOKS,R.R. + REEVES,R.D. + YANG,X.-H. + RYAN,D.E. + HOLZBECHER,J. + ELLEN,J.D. + NEALL,V.E. + LEE,J. (DEPT. OF CHEMISTRY, BIOCHEMISTRY, AND BIOPHYSICS, MASSEY UNIV., PALMERSTON NORTH, NEW ZEALAND): ELEMENTAL ANOMALIES AT THE CRETACEOUS-TERTIARY BOUNDARY, WOODSIDE CREEK, NEW ZEALAND
SCIENCE VOL. 226, 539-542 (1984)

EAST,I.R. + REAY,N.K. (PHYSICS DEPT., BLACKETT LAB., IMPERIAL COLLEGE, PRINCE CONSORT ROAD, LONDON SW7 2BZ, UK): THE MOTION OF INTERPLANETARY DUST PARTICLES. I.RADIAL VELOCITY MEASUREMENTS ON FRAUNHOFER LINE PROFILES IN THE ZODIACAL LIGHT SPECTRUM
ASTRONOMY AND ASTROPHYSICS VOL. 139, 512-516 (1984)

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PROCEEDINGS OF THE FIFTEENTH LUNAR AND PLANETARY SCIENCE CONFERENCE, PART 1 JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 89, SUPPLEMENT, PAGES C351-C357, NOVEMBER 15, 1984 (1984)

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16TH LUNAR AND PLANETARY SCIENCE CONFERENCE
MARCH 11-15, 1985

PRELIMINARY PROGRAM

Monday, March 11, 1985

LPSC XVI FLORENSKY MEMORIAL: VENUS SPECIAL SESSION
8:00 a.m. Gilruth 104

Introduction by Chairmen: V. L. Barsukov
J. W. Head

Dedication of Session to C. P. Florensky by: A. T. Basilevsky
H. Masursky

SURFACE OF VENUS

Barsukov V. L.
Comparative planetology and recent Venus results

Basilevsky A. T.
Geology of the northern latitudes of Venus as revealed by the Venera 15/16 spacecraft

Campbell D. B.
Recent high-resolution images of the surface of Venus from the Arecibo Observatory

Masursky H.
Pioneer-Venus Spacecraft results: An update

Surkov Y.
Venus surface geochemistry

ATMOSPHERE OF VENUS

Donahue T.
Evolution of the atmosphere of Venus

Prinn R.
Venus atmosphere

PANEL DISCUSSION
CHARACTERISTICS AND EVOLUTION OF VENUS

Panel Members: A. Basilevsky, K. Burke, M. Duke, D. Hunten, W. Kaula, H. Masursky, R. Phillips, S. Solomon, G. Wasserberg

Monday, March 11, 1985

TERRESTRIAL IMPACTS AND THE GEOLOGIC RECORD
10:15 a.m. Gilruth Gym

Hildebrand A. R.* Boynton W. V.
Geologic signatures of large impacts in the terrestrial ocean

Grieve R. A. F.* Sharpton V. L. Goodacre A. K. Garvin J. B.
Periodic cometary showers: Real or imaginary?

Orth C. J.* Gilmore J. S. Knight J. D.
A search for evidence of large body earth impacts associated with biological crisis zones in the fossil record

Murali A. V.* Blanchard D. P. Somayajulu B. L. K. Laul J. C.
Chemical signatures at the cretaceous-tertiary boundary within a single manganese nodule

Bohor B. F. Modreski P. J.* Foord E. E.
A search for shock-metamorphosed quartz at the K-T boundary

Bohor B. F. Foord E. E.* Modreski P. J.
Extraterrestrially-derived magnesioferrite at the K-T boundary, Caravaca, Spain

Kyte F. T.* Smit J.
Cretaceous-Tertiary spinels: High temperature relicts from a major accretionary event

PRESENTED BY TITLE ONLY

Rasmussen K. L. Kallemeyn G. W.
Extraterrestrial components in Greenland firn cores resulting from major accretionary events: The "Tunguska event"

Monday, March 11, 1985

COSMIC RAYS, IRRADIATION EFFECTS AND SPECIAL ISO-TOPICS
8:30 A.M. Gilruth 206

MacElroy J. M. D. Manuel O. K.*
Diffusional fractionation in the outer layers of the sun

Fireman E. L.*
Uranium-series dating of Allan Hills ice

Franchi I. A. Gibson E. K., Jr. Wright I. P.* Pillinger C. T.
Nitrogen isotopes by laser probe extraction

Nishiizumi K. Arnold J. R.* Klein J. Middleton R. Goswami J. N.
Cosmogenic nuclides in 15011 rocklets

Nyquist L. E.* McDowell A. F.
Cosmogenic He and Ne in chondrites: Monitors of spatial gradients in the cosmic ray flux?

Englert P.*
53-Mn in a slab of the lost city meteorite

Aylmer D.* Bonanno V. Herzog G. Klein J. Middleton R.
10Be and 26Al contents of small iron meteorites

Bibring J-P. Rocard F.
Solar wind and cosmic ray irradiation of grains and ices -- application to erosion and synthesis of organic compounds in the solar system

PRESENTED BY TITLE ONLY

Eugster O.
Early exposure of minerals from gray soil 74261

Leich D. A. Borg R. J. Lanier V. B.
Production rates of neon and xenon isotopes by energetic neutrons

Lavrukhina A. K.
Meteorites with multi-stage irradiation by galactic cosmic rays

Alexeev V. A. Malyshev V. V. Lavrukhina A. K.
Cosmogenic radionuclides Al-26 and Mn-53 in chondrites

Padia J. T. Rao M. N. Venkatesan T. R.
Solar cosmic ray produced spallation neon in etched Kapoeta pyroxenes

Monday, March 11, 1985

SNC METEORITES
10:15 a.m. Gilruth 206

Rajan R. S.* Lugmair G. W.
Search for neutron effects in the Elephant Morraine shergottite

Muenow D. W. Gooding J. L.*
"Martian" volatiles in shergottite EETA79001: Possible significance of secondary minerals

McKay G.* Wagstaff J.
Clinopyroxene REE distribution coefficients for shergottites: REE content of the Shergotty/Zagami Melts

Treiman A. H.*
The Nakhla meteorite: Evidence for origin in an ultrabasic lava flow

Jones J. H.*
The Youngest Meteorites: I. A 180 m.y. igneous age for the shergottites -- the constraint of petrography

Jones J. H.* Benjamin T. M. Hollander M. Conner J.
The youngest meteorites: II. Trace element zoning in Zagami maskelynite

Jones J. H.*
The youngest meteorites: III. Implications of 180 m.y. igneous activity on the SPB.

PRESENTED BY TITLE ONLY

Treiman A. H. Drake M. J. Hertogen J. Janssens M.-J. Wolf R. Ebihara M.
Siderophile and chalcophile elements in the shergottite parent body (SPB) and Earth

Monday, March 11, 1985

VENUS
1:30 p.m. Gilruth 104

Garvin J. B.* Head J. W. Ziak S. H.
On the origin of high radar reflectivity surfaces on Venus

Greeley R.* Marshall J.
Rolling as a possible mode of wind transport on Venus and resulting bedforms

Williams S. H.* Greeley R.
Aeolian activity on Venus: The effect of atmospheric density on aaltation flux

Arvidson R. E.* Kahn R.
The relative rates of aeolian and tectonic processes on Venus and Mara

Edwards M. H.* Arvidson R. E. Heirtzler J. R.
Recognition of tectonic and erosional morphologies on earth using recently available topographic and bathymetric averages

Blake P. L.* Mouginis-Mark P. J.
Topographic variability of the lowlands of Venus

Sjogren W. L.* Wimberly R. N. Saunders R. S.
Venus gravity: Niobe-Aphrodite

Morgan P.* Phillipa R. J. Block L. V. Reagan M. T.
Venus topography and gravity models: Preliminary results

Billa B. G.* Kiefer W. S.
Venus: Gravity, topography, and isostatic compensation

Zuber M. T.* Parmentier E. M. Head J. W.
Ductile lithosphere extension: Implications for rifting on the Earth and Venus

Elston W. E.*
"Informed speculation" regarding thin-akin tectonics, back-arc extension, and volcanism on Venus

Stofan E. R.* Head J. W. Campbell D. B.
Multiple ring features in Themis Regio: Evidence for endogenic origin

Wilson L.* Head J. W.
Venus volcanism: Theory and predictions of volcanic deposits and landforms

Head J. W.* Campbell D. B. Zisk S. H.
Tectonism and volcanism on the southern slopes of Ishtar Terra, Venus

POSTER PRESENTATIONS

Singh R. N. Upadhyay H. O.
Heating efficiency of Venus atmosphere

Singh R. N. Prasad R.
Induced and stimulated configuration of Venus magnetic field

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Iverson J. Greeley R. Marshall J. Leach R. White B.
Effect of density ratio: Threshold speeds on Venus

Garvin J. B.
On the role on Mn and Ti at the surface of Venus

Zolotov M. Yu.
Sulfur-containing gases in the Venus atmosphere and stability of carbonates

Zolotov M. Yu. Khodakovsky I. L.
Composition of volcanic gases on Venus

Garvin J. B. Head J. W.
High dielectric surfaces on the terrestrial planets

Garvin J. B.
On the role of Mn and Ti at the surface of Venus

Sharpton V. L. Head J. W.
Global topographic and structural fabric on Venus

Kozak R. C. Davia P. A.
Radar characterization of the Venusian surface by an unsupervised classifier

Stofan E. R. Campbell D. B. Head J. W. Hine A. A.
Southern Ishtar Terra and Guinevere/Sedna Planitia: New observations from Earth-baaed radar

Monday, March 11, 1985

THE SHERGOTTY CONSORTIUM
1:30 p.m. Gilruth Gym

Laul J. C.*
The Shergotty Consortium

Laul J. C.* Smith M. R. Wanke H. Jagoutz E. Dreibus G. Palme H. Spettel B. Burghele A. Lipschutz M. E. Verkouteren R. M.
Chemical systematics of Shergotty

Clayton R. N.* Mayeda T. K.
Oxygen isotopes in Shergotty

Sen Gupta P. R.*
Petrographic shock features of the Shergotty meteorite

Ostertag R. Stoffler D.* Jammes C. Pfannschmidt G.
Shock effects in the Shergotty meteorite--Evidence for only one shock event

Hasan F. A.* Sears D. W.
A thermoluminescence study of the shergottites

Cisowski S. M.*
Magnetism of shergottits meteorites

Yang J.
Measurment of the H/D ratio in Shergotty

Carr R. H.* Wright I. P. Pillinger C. T.
Carbon isotopic analyses of the Shergotty meteorite

Becker R. H.* Pepin R. O.
Nitrogen and light noble gases in the Shergotty meteorite

Jagoutz E.* Wanke H.
Sm-Nd and Rb-Sr studies on Shergotty meteorite

Chen J. H.* Wasserburg G. J.
Peculiar U-Th-Pb systematics in Shergotty: A martian lead?

Bhandari N. Sengupta D. Goswami J. N.
Thermoluminesence and track records in Shergotty and other SNC meteorites

Rao N. M.
Nobile gases in Shergotty

Nishiizumi K.* Elmore D. Kubik P. W. Goswami J. N. Arnold J. R.
Exposure histories of SNC and lunar meteorites

Wanke H.* Laul J. C.
Summary and implications of the Consortium results

POSTER PRESENTATION

Simon S. B. Papike J. J. Beauchamp R. H.
Petrography and silicate mineral chemistry of the Shergotty meteorite

Monday, March 11, 1985

COSMIC DUST
1:30 p.m. Gilruth 206

Brownlee D. E.* Fehrenbach L. Hammer C. Jehano C. Maurette M. Thomsen H. H.
A new mine of cosmic dust in the melt zones of the Greenland ice cap

McKay D. S.* Rietmeijer F. J. M. Mackinnon I. D. R.
Mineralogy of chondritic porous aggregates: Current status

Mogk D. W.* Mackinnon I. D. R. Rietmeijer F. J. M.
Auger spectroscopy of stratospheric particles: The influence of aerosols on interplanetary dust

Zolensky M. E. Mackinnon I. D. R. Robinson G. A. McKay D. S.
Accurate stratospheric particle size distributions from two separate flat-plate collection surfaces: Can we see variations with time?

Christofferson R.* Buseck P. R.
Mineralogy of the "olivine" IR class of interplanetary dust

Rietmeijer F. J. M.* Mackinnon I. D. R.
A multi-stage history for carbonaceous material in extraterrestrial chondritic porous aggregate W7029*A and a new cosmothermometer

Jessberger E. Kuczera H. Lange G. Sutton S.* Zinner E.
Ion microprobe analyses of simulated LDEF impact residues

Schramm L. S.* McKay D. S. Zook H. A. Robinson G. A.
Analysis of micrometeorite material captured by the Solar Max satellite

Kessler D. J.* Zook H. A. Potter A. E. McKay D. Clanton U. S. Warren J. L. Watts L. A. Schramm L. S. Wentworth S. J. Robinson G. A.
Examination of returned Solar-Max surfaces for impacting orbital debris and meteoroids

Carey W. C. McDonnell J. A. M.* Dixon D. G.
Capture cells: Decoding the impacting projectile parameters

Zook H. A.* Su S.-Y. Humes D. H.
On dust particles in the Jovian system

Carle G. C. Clark B. C.* O'Hara B. J.
High sensitivity molecular and elemental analysis of cometary grains

Bibring J-P.* Borg J. Langevin Y. Rosenbaum B. Vassent B. Salvetat P. Surkhov Y. A.
Collection in apace of cometary material by the KMP-comet experiment

POSTER PRESENTATIONS

Zolensky M. E. Murali A. V. Brochwicz-Lewinski W.
A probable occurrence of well preserved meteorite ablation material from the upper jurassic of Poland

Nuth J. A. Donn B. deSeif R. Donn A.
Low temperature alteration of amorphous silicates

Tomeoka K. Buseck P. R.
"CALRISSIAN"--A carbonate-rich hydrated interplanetary dust particle: Possible residual material from protostellar cloud

PRESENTED BY TITLE ONLY

Rietmeijer F. J. M.
On the continuum between chondritic interplanetary dust and CI and CM carbonaceous chondrites: A petrological approach

Rietmeijer F. J. M.
Low-temperature aqueous and hydrothermal activity in a protoplanetary body: Goethite, opal-CT, gibbsite and anatase in chondritic porous aggregate W7029*A

Capaccioni F. Dixon D. G. McDonnell J. A. [illegible] Flavill R. P.
Particle deceleration and impact residue analysis experiments for sample return missions

Monday, March 11, 1985

POSTER SESSION
7:00 p.m. Gilruth Gym

Authors of poster presentations will be available to discuss their material for 1 hour prior to the NASA Future Programs Special Session. Refreshments will be provided.

FUTURE PROGRAMS SPECIAL SESSION
8:00 p.m. Gilruth 104

Briggs G.
NASA Planetary Program

Barsukov V.
USSR Planetary Program

Levy, E.
Major directions in space science: A study by the Space Science Board

Greeley R.
Toward a space station planetary simulation laboratory

Tuesday, March 12, 1985

CHONDRITES AND NEBULAR PROCESSES
8:30 a.m. Gilruth 104

Grossman L.* Hashimoto A. King E. A.
Experimental condensation of crystalline olivine and pyroxene

Nuth J. A. III* Rietmeijer F. J. M. Mackinnon I. D. R. Sanford S. A.
Infrared spectra of Mg-Sio smokes: Comparison with analytical electron microscopy studies

Kornacki A. S.*
High-temperature oxidizing conditions in the solar nebula: The evidence from Fe, Co, and Ni abundances in Allende inclusions

Fegley B., Jr.*
Oxidation state indicators for the solar nebula

Johnson M. C.*
Pyroxene compositions in the most reduced chondrules of UOC's as a measure of O/H in the nebula

Kring D. A.*
Heterogeneity of O/H in the solar nebula, as indicated by mafic mineral compositions in chondrules

Kracher A.*
Why do some chondrules heve high primary FeO contents?

Caffee M. W.* Goswami J. N. Hohenberg C. M. Swindle T. D.
Pre-compaction irradiation of meteorite grains: Further constraints

Kerridge J. F.* Shipp R. Chang S.
Measurement and interpretation of D/H in meteorites: A reappraisal

Huss G. R.*
Isotopic anomalies and homogenization in the early solar system

Wark D. A.*
Observational constraints on solar nebula models

Strangway D. W.* Sugiura N.
Magnetic fractionation in the early solar system

Wood J. A.*
The initiation of chondrite accretion after chondrule formation by drag heating

POSTER PRESENTATION

Wedeking K. Shipp R. Chang S. Rightor E. Pinnavaia T. J.
Carbon isotope compositions of individual hydrocarbons, carbon dioxide, and oils from the Fischer-Tropsch reaction

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Yakovlev O. I. Markova O. M. Belov A. N. Semenov G. A.
The compositional evolution of meteorites produced by the vaporization of iron

Mendybaev R. A. Kuyunko N. S. Lavrukhina A. K. Khodakovsky I. L.
The interaction of the interstellar carbon with water vapour in the preplanetary nebula and some cosmochemical consequences

Ruzmaikina T. V. Safronov V. S.
Premature particles in the solar nebula

Dorofeyeva V. A. Makalkin A. B.
The influence of dust transport and temperature conditions in the preplanetary solar nebula on C/O variations in the nebular gas

Izakov M. N.
Preplanetary-nebula's solid matter formation and composition of chondrites

Makalkin A. B. Dorofeyeva V. A. Borunov S. P.
Intervals of temperature variations in the preplanetary solar nebula

Vitjazev A. V. Pechernikova G. V.
On the evaporation interstellar dust during the preplanetary disk formation

Esat T. Spear R. H. Taylor S. R.
Anomalous mass fractionation in distillation: Implications for the early history of meteorites and the solar system

Tuesday, March 12, 1985

LUNAR REGOLITH: SOILS, BRECCIAS, METEORITES
8:30 a.m. Gilruth Gym

Basu A.* McKay D. S.
Composition of agglutinitic glass: Part II. Rationale and interpretation

Horz F.* Cintala M. J. Olds S. See T. H. Cardenas F.
Experimental regolith evolution: Differential comminution of plagioclase, pyroxene and olivine

Simon S. B. Papike J. J.* Horz F. See T. H.
Agglutinate melting mechanisms I: Experimentally shocked feldspars

Pieters C. M.* Horz F.
Spectral characteristics of experimental regoliths

Takeda H.* Mori H. Miyamoto M. Ishii T.
Mineralogical studies of lunar meteorites and the lunar analogs

Ostertag R. Stoffler D. Palme H. Spettel B. Weckwerth G. Wanke H.
Lunar meteorite Yamato 791197: A weakly shocked regolith breccia from the far side of the moon

Bogard D.* McKay D. Morris R. Wentworth S. Johnson P.
Regolith breccias from Apollo 15 and 16: Petrology, rare gases, and FMR maturity

Korotev R. L.*
Geochemical survey of Apollo 16 regolith breccias

Korotev R. L.*
Geochemical survey of Apollo 15 regolith breccias

Reed G. W. Jr.* Jovanovic S.
Adsorption of Hg on lunar samples

Bernatowicz T. J. Podosek F. A. Kramer F. E.
Ar adsorption and the lunar atmosphere

Blanford G. E.* Borgesen P. Maurette M. Moller W. Monart B.
The difficulty of modeling the trapping and desorption of hugrogen implanted in insulator grains

Kerridge J. F.*
Nitrogen isotopes in lunar regolith: A continuing puzzle

Carr L. P.* Wright I. P. Pillinger C. T.
Nitrogen abundance and isotopes in lunar breccias - A progress report

PRESENTED BY TITLE ONLY

Rode O. D. Nazarov M. A. Fainberg V. S. Ramendik G. I.
Surface films on ultrafine regolith particles: Composition and origin

Dikov Yu. P. Bogatikov O. A. Ivanov A. V.
Surface chemistry of the particles of sample 74220: Many-electron effects in the structure of ESCA spectra

Bischoff A. Stoffler D.
Clast population statistics of the lunar meteorite Yamato 791197--Sample from a new source region of the lunar highlands?

Simon S. B. Papike J. J. Gosselin D. C.
Petrology of Apollo 12 regolith breccias

King T. V. V. Horz F.
Spectral reflectance measurements of shock-loaded geologic materials

Basu A. McKay D. S.
Plagioclase composition and the mare basalt component in Apollo 16 core 64001/2

Basu A. Robinson G. McKay D. S.
A cruciform chromite in an agglutinate in lunar soil 15271

Basu A.
A hypothesis for a differentiated very surface of the moon by regolith processes

Basu A. McKay D. S.
Composition of agglutinitic glass: Part 1. Method and new data

Crown D. A. Pieters C. M.
Spectral properties of plagioclase and pyroxene mixtures

McKay D. S. Wentworth S. J. Robinson G. A.
Disaggregation of regolith breccias from Apollo 15 and 16

Nakamura N. Unruh D. M. Tatsumoto M.
REE, Rb-Sr, and Pb isotopic characteristics of "lunar" meteorites Yamato-791197

Tuesday, March 11, 1985

MARTIAN GEOLOGY AND PROCESSES
8:30 a.m. Gilruth 206

McSween H. Y., Jr.*
What we know about Mars (but otherwise wouldn't) if it is the shergottite parent body

Tanaka K. L.*
New stratigraphic developments for Mars

Lucchitta B. K.*
Young volcanic deposits in the Valles Marineris, Mars

Greeley R.* Theilig E.
Lava flows in southwest Tharsis: Modes of emplacement

De Hon R. A.*
Thickness of ridged plains materials in Hesperia Planum, Mars

Plescia J. B.* Golombek M.
Origin of planetary wrinkle ridges from terrestrial analogs

Phillips R. J.* Sleep N. H.
Tharsis (is) nearly isostatic

Maxwell T. A.* Watters T. R.
The Mars ancient cratered terrain--smooth plains boundary: Implications of Viking color data for evolution of the Amenthes region

Semeniuk A. M.* Frey H.
Outlier detached plateaus and the highland boundary on Mars

Jons H.-P.*
Late sedimentation and late sediments in the northern lowlands on Mars

McGill G. E.*
Age and origin of large martian polygons

Rossbacher L. A.*
Quantitative analysis of martian polygonal ground

Garvin J. B.*
Blockfields on planetary surfaces

POSTER PRESENTATIONS

Zimbelman J. R. McAllister R.
Surface morphology on the martian volcano Ascraeus Mons

Blanchard D. P. deVries J. P. Bourke R. D.
Plans for a 1996 Mars sample return mission

PRESENTED BY TITLE ONLY

De Hon R. A.
Ridged plains of lunae planum: Thickness distribution revised

Frey H. Semeniuk A. M.
The highland boundary on Mars: Distribution of characteristic structures

Frey H. Middleton J. Semeniuk A. M.
Distribution and properties of large symmetric knobs on Mars

Head J. W. III Carras N. G.
Olympus Mons aureole: Evidence for extensional and compressional deformation associated with emplacement

Moore J. M.
The origin of the Phlegra Montes, Mare

Stam M.
Newly discovered martian impact basins

Tanaka K. L.
Crater-density stratigraphy of the western Martian highlands

Watters T. R. Maxwell T. A.
Fold model for ridges of the Tharsis region of Mars

Tuesday, March 12, 1985

LUNAR CRUST
1:30 p.m. Gilruth 104

Ryder G.* Spudis P.
Materials in the Apennine Front, Apollo 15

Simon S. B.* Papike J. J.
Petrology of the Apollo 12 highland component

Laul J. C.*
Chemistry of the Apollo 12 highland component

Morris R. V.* See T. H. Horz F.
Compositional domains of Apollo 16 impact melt splashes (IMS's)

See T. H.* Horz F. Morris R. V.
Apollo 16 impact melt splashes: Implications from the host rocks

Shervais J. W.* Taylor L. A. Lindstrom M. M.
Olivine vitrophyres--A non-pristine high-Mg component in lunar breccia 14321

Warren P. H.* Kallemeyn G. W.
"New" pristine moon rocks: Augite-rich ferroan anorthosite 76504,18--The link between ferroan anorthosites and mare basalt source regions?

Warren P. H.*
Genesis of the geochemical bimodality of pristine nonmare rocks

James O. B.*
REE-rich pristine alkali gabbronorite from breccia 67975

James O. B.* Flohr M. K.
Petrology of a complex clast of ferroan anorthosite from breccia 64435

Lindstrom M. M.*
Compositional distinctions among lunar granulites

Salpas P. A.* Shervais J. W. Knapp S. A. Taylor L. A.
Petrogenesis of lunar granites: The result of apatite fractionation

Lindstrom M. M.* Crozaz G. Zinner E.
REE in phosphates from lunar highlands cumulates: An ion probe study

Goodrich C. A. Taylor G. J. Keil K. Reed S. J. B. Boynton W. V.
Hill D. H.*
Ion microprobe analysis of REE in phosphates in the apatite-rich clast from ALHA81005

POSTER PRESENTATION

Miura Y.
Lunar impact and igneous events indicated by composition of Ba-K-Ca phase: A new indicator of the lunar formation

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Borchardt R. Blaschke R.
Metallic Si-Fe particles in the devitrified glass sample 67629

Lindstrom M. M. Marvin U. B.
Geochemistry and petrology of clasts from North Ray Crater breccia 67015

Morris R. V. See T. H. Horz F.
Components for chemical mixing models of Apollo 16 impact melt splashes (IMS's) and soils

Morris R. V. See T. H. Horz F.
Influence of the meteoritic component on the composition of Apollo 16 impact melt splashes

See T. H. Horz F.
Compositional homogeneity/heterogeneity of Apollo 16 impact melt splashes: How many events?

Shervais J. W. Knapp S. A. Taylor L. A. Lindstrom M. M.
Petrology and geochemistry of microbreccia clasts and matrix in lunar breccia 14321

Spudis P. D. Schultz P. H.
The proposed lunar Procellarum Basin: Some geochemical inconsistencies

Tanaka T. Shimizu H. Shibata K. Masuda A.
Positive Cerium anomaly of lunar 14310: Examination by 138Ce/142Ce

Tuesday, March 12, 1985

MARS VOLATILES AND CLIMATE HISTORY
1:30 p.m. Gilruth Gym

Wanke H.* Driebus G.
The degree of oxidation and the abundance of volatile elements on Mars

Fanale F. P. Salvail J. R. Zent A. P. Postawko S. E.
Global distribution and migration of subsurface ice on Mars

Clifford S. M.* Fanale F. P.
The thermal conductivity of the Martian crust

Postawko S.* Kuhn W. R.
Sulfur dioxide and martian surface temperature

Mouginis-Mark P. J.*
Identification of lava flow-permafrost interactions on Mars

Schultz P. H.* Simon J. Clifford S. M.
Ice-embedded unconformable deposits as a possible source for outflow/run-off channels

Kochel R. C.*
Surface morphology of valley networks formed by sapping

Janke D. R.*
A relative time scale for channeling events in the Oxia Palue/Margaritifer Sinus region, Mars

Zent A. P.* Fanale F. P.
Solis Lacus brines: Possible chemistry and kinetics

Roth L. E.* Saunders R. S. Schubert G.
Mars: Seasonally variable radar reflectivity

PRESENTED BY TITLE ONLY

Simon J. F., Jr. Schultz P. H.
Mangala Valles outflow region: Characterization of the source and associated terraine

Vitjazev A. V.
Solar wind and noble gases in atmospheres of Mars and Earth

Tuesday, March 12, 1985

ASTEROIDS AND COMETS
1:30 p.m. Gilruth 206

Roush T. L.* Singer R. B.
The effects of temperature on the spectral reflectance of asteroid surfaces: A model

Bell J. F.* Gaffey M. J. Gradie J. C. Hawke B. R. McCord T. B.
Asteroid 29 amphitrite: Surface mineralogy and heterogeneity

Cruikshank D.* Hartmann W. Tholen D. Bell J.
An olivine-rich Earth-crossing asteroid: Source of pallasites?

Gaffey M. J.*
A paradigm for the S-type asteroids: Implications for the evolutionary history of the inner belt and the search for the ordinary chondrite parent bodies

Hubbard W. B. Lebofsky L. A.* Hunten D. M. Reitsema H. J.
Zellner B. H. Goff R. Marcialis R. Sykes M. Frecker J. Sanchez A.
Rios H. Izaguirre M.
Occultation diameter of asteroid 1 Ceres

Harris A. W.* Binzel R. P.
288 Glauke and 1220 Crocus: Processing binary asteroids?

Ostro S. J.* Dorogi M. D. Connelly R.
Convex-profile inversion of asteroid lightcurves: Sensitivity to viewing/illumination geometry

Horz F.* Cintala M. J. See T. H. Cardenas F. Thompson T. D.
Collisional fragmentation of grain-diorite targets by multiple impact events

Turcotte D. L.*
Fractals, fragmentation, and a renormalization group determination of the frequency-mass distribution of meteorites and asteroids

Grun E.* Schwehm G. Massonne L. Fertig J. Graser U.
Dust emission of periodic comet Halley at large heliocentric distances

Squyres S. W.* McKay C. P. Reynolds R. T.
Temperatures within comet nuclei

Saunders R. S.* Parker T. J. Stephens J. B. Laue E. G. Fanale F. P.
Filamentary sublimation residues from dispersions of siliceous particles in ice

Wednesday, March 13, 1985

CARBONACEOUS CHONDRITES AND THEIR CHONDRULES
8:30 a.m. Gilruth 104

Steele I. M.* Smith J. V. Skirius C. M.
Unique forsterites in chondrites. II: Compositional variation and high minor element content

Palme H. Kurat G. Brandstatter F. Burghele A. Huth J. Spettel B. Wlotzka F.
An unusual chondritic fragment from the Allende meteorite

Tomeoka K.* Buseck P. R.
Microtextures of PCP: Footmarks of aqueous alteration involving CM carbonaceous chondrites

Housley R. M.*
Additional evidence pointing to the formation of Allende matrix by in situ alteration

Rubin A. E.* Wasson J. T.
Compositional differences between ordinary and carbonaceous chondrite chondrules

Prinz M.* Weisberg M. K. Nehru C. E. Delaney J. S.
Chondrules of the Renazzo and Al Rais carbonaceous chondrites: Lalyering and accretionary growth as part of the chondrule-forming process

Delaney J. S.* Stokes C. P. O'Neill C. Prinz M.
The Karoonda chondrule corundum conundrum

Kurat G.* Palme H. Brandstatter F. Spettel B. Perelygin V. P.
Allende Chondrules: Distillations, condensations, and metasomatisms

Burgess R.* Wright I. P. Pillinger C. T.
Sulphur isotope measurement of meteorites by stepped combustion

Grady M. M.* Pillinger C. T.
The carbon isotopic composition of winonaites and forsterite chondrites

Halbout J.* Mayeda T. K. Clayton R. N.
Carbon isotopes in bulk carbonaceous chondrites

Heymann D. Vie R.* Stap Chr. v. d.
Carbon concentration mapping in a surface of the Allende meteorite

Duba A.* Didwall E. Burke G. J. Arnold E. L.
Electrical conductivity of carbonaceous chondrites and T-Tauri (electromagnetic) heating of the aeteroids

PRESENTED BY TITLE ONLY

Korotkova N. N. Ruchman G. G. Skripnik A. Ya. Kononkova N. N. Lavrukhina A. K.
Track study of Kaidun meteorite minerals

Lavrukhina A. K. Ljul A. Yu. Kolesov G. M. Korovajkov P. A.
Refractory metal inclusions in Kainsaz CO chondrite: Their detection and elemental composition

Scott E. R. D.
Further petrologic studies of metamorphosed carbonaceous chondrites

Steele I. M. Skirius C. M. Smith J. V.
Unique forsterite in chondrites. I: Luminescence and textural features

Sugiura N. Matsui T. Strangway D. W.
On the natural remanent magnetization in Allende meteorite

Wednesday, March 13, 1985

LUNAR AND PLANETARY ORIGINS
8:30 a.m. Gilruth Gym

Cameron A. G. W.*
The lose of mantle material from Mercury

Frisch B.* Tyburczy J. A. Ahrens T. J.
Impact-induced volatile loss from a carbonaceous chondrite: Implications for planetary accretion

Tyburczy J. A.* Ahrens T. J.
Partial pressure of CO2 and impact-induced devolatilization of carbonates: Implications for planetary accretion

Prasad M. N.* Crocket J. H.
Eu-Sm and other refractory trace element systematics for komatiitic volcanics and related rock types: Implications for planetary bulk compositions

Taylor S. R.*
Geochemical constraints on theories of lunar origin

Swindle T. D.* Caffee M. W. Hohenberg C. M.
Excess fission xenon and I-Pu-Xe dating

Herbert F. Davis D. R.* Weidenschilling S. J.
On forming the Moon in geocentric orbit: Dynamical evolution of a circumterrestrial planetesimal swarm

Hartmann W. K.*
Lunar origin: New work on the impact-trigger hypothesis

Stevenson D. J.*
Implications of very large impacts for Earth accretion and lunar formation

Melosh H. J.*
When worlds collide: Jetted vapor plumes and the Moon's origin

Wetherill G. W.*
Giant impacts and the formation of the moon

Dickinson T.* Newsom H. E.
A possible test of the impact theory for the origin of the moon

Wednesday, March 13, 1985

MARS DUST: DISTRIBUTION AND COMPOSITION
8:30 a.m. Gilruth 206

Dollfus A.* Deschamps M.
Grain size at the surface of Mars

Thomas P.* Gierasch P.
Dust devils on Mars

Lee S. W.*
Seasonal and secular variation of the Solis Lacus Albedo feature: Relation to the Martian dust-transport cycle

Zimbelman J. R.*
Surface properties of Ascraeus Mons: Dust deposits on a Tharsis volcano

Guinness E. A.* Arvidson R. E. Leff C. E.
On the latitudinal distribution of debris in the northern hemisphere of Mare

Huguenin R Harris S. Carter R.
Freeze/thaw injection of dust into the Martian atmosphere

Moore H. J.*
Local dust storm of Sol 1742, Mars

Christensen P. R.* Kieffer H. H. Chase S.
Determination of martian surface composition by thermal infrared spectral observations

Singer R. B. Owensby P. D. Clark R. N.
Observed upper limits for clay minerals on Mars

Huguenin R. L.* Jones J. L.
Primary minerals on Mare: Detection by intelligent high order derivative spectroscopy

Dale-Bannister M.* Arvidson R. Singer R. Bruckenthal E.
The search for igneous minerals at the Viking Lander sites

Adams J. B.* Smith M. O. Johnson P. E.
Viking Lander I: A new map of rock and soil types

Boslough M. B. Graham R. A.
Application of controlled explosive loading fixtures to the study of shock-induced color change in nontronite

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McEwen A. S.
Topography and albedo of Ius Chasma, Mars

Wednesday, March 13, 1985

CAIs
1:30 p.m. Gilruth 104

Wark D. A.*
Combined chemical/petrological classification of Ca-Al-rich inclusions

Kornacki A. S. Fegley B., Jr.*
Group II CAI's: An isotopic case for presolar chemistry?

Paque J. M.*
A vanadium-rich fluffy type A Ca-Al-rich inclusion in Allende

Teshima J.* Wasserburg G. J.
Textures, metamorphism, and origin of type A CAI's

Hashimoto A.* Grossman L.
SEM-petrography of Allende fine-grained inclusions

Ekambaram V.* Hashimoto A. Davis A. M. Grossman L.
Trace elements in petrographically-distinct components of Allende inclusions

Stolper E. MacPherson G. J. Beckett J. R. Grossman L.*
Thermometry of Ca-Al-rich inclusions

Hutcheon I. D.* Armstrong J. T. Wasserburg G. J.
Isotopic studies of Mg, Ca, Fe, Mo, and Ru in Fremdlings

Bunch T. E.* Chang S. Cassen P. Reynolds R. Lissauer J.
Non-nebular origin for CAI rims

Cassen P. Reynolds R. Lissauer J. Bunch T. E.* Chang S.
Heating of CAIs in the environment of an accreting body

Davis A. M.*
Refractory inclusions in the Ornans C3O chondrite

MacPherson G. J.* Delaney J. S.
A fassaite--two olivine-pleonaste-bearing refractory inclusion from Koroonda

Armstrong J. T.* Hutcheon I. D. Wasserburg G. J.
Zelda revealed

El Goresy A.* Palme H. Spettel B. Bukovanska M.
Max und Moritz: Two refractory inclusions from Grosnaja (CV3) carbonaceous chondrite

POSTER PRESENTATION

Kornacki A. S.
The relative volatility of refractory trace elements in Allende CAI's

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Dyar M. D. Ryan V. L. Burns R. G.
Crystal chemistry and origin of blue color in meteoritic hibonites: Evidence from Mossbauer spectra of 57Fe-doped analogues

Ulyanov A. A. Ustinov V. I. Gavrilov E. Ya. Shukolyukov Yu. A.
Isotopic composition of oxygen in the Efremovka CAI's

Wednesday, March 13, 1985

MARE BASALTS
1:30 p.m. Gilruth Gym

Binder A.*
Mare basalt geesis: Trace elements and isotopic ratios

Clark P. E.*
Geochemical differentiation of the maria on the early moon

Eugster O.*
The thickness of lava flows in Mare Tranquillitatis and Mare Procellarum

Dasch E. J.* Shih C.-Y. Bansal B. M. Nyquist L. E. Wiesman H.
Isotopic provenance of aluminous mare basalts from the Fra Mauro formation

Bogard D. D. Nyquist L. E. Shih C. Y.* Bonsal B. M. Wiesmann H.
Johnson P.
Geochronology and petrogenesis of VHK basalts

Hughes S. S. Schmitt R. A.
Zr/Hf ratios in lunar mare basalt groups-- interim report 2

Delano J. W.*
Mare volcanic glasses, I: Major-element data

Barraclough B. L.* Marti K.
In search of the Moon's indigenous volatiles: Noble gases and nitrogen in vesicular lunar glasses

Lewis R. H. Lindstrom D. J.* Haskin L. A.
Electrolysis of simulated lunar melts

Semkow K. W.* Haskin L. A.
The diffusive and structural behavior of nickel ion in melts of diopside-anorthite composition

Nakamura Y. Nakamura N. Fujimaki H. Tetsumoto M. McKay G. A.
Wagstaff J.
Hf, Zr, and REE partition coefficients between ilmenite and liquid

POSTER PRESENTATION

Colson R. O. McKay G. A. Taylor L. A.
A model for trace element partitioning: Orthopyroxene and melt

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Delano J. W.
Mare volcanic glasses, II: Abundances of trace Ni and the composition of the Moon

Hummel W. Arndt J.
Variation of viscosity with temperature and composition in the plagioclase system

McKay G. Wagstaff J.
Ilmenite partitioning revisited: Confirmation of Zirconium results for high-Ti mare basalts

Salpas P. A. Taylor L. A.
Basalt clasts in breccia 72275: Examples of pre-mare volcanism

Schreiber H. D.
A geochemical electromotive force series

Semkow K. W. Haskin L. A.
Oxidation of platinum anodes in silicate melt electrolysis

Tarasov L. S. Kudryashova A. F. Kolesov G. M. Mashtalka A.
Frana J.
Titanium and VLT basalts of Luna 16 and Luna 24: Geochemical comparison

Tarasov L. S. Kudryashova A. F. Ulyanov A. A. Baryshev V. B.
Kulipanov G. N. Skrinsky A. N.
XFA-SR for the analysis of elements of lunar rocks and meteorites

Willis K. J.
Three lithologic units of 72275

Fugsen M. M. Minh D. V. Tarasov L. S. Shukolyukov Y. A.
40Ar-39Ar age of lunar basalt and anorthositic rocks

Goodrich C. A. Taylor G. J. Keil K. Warren P. H. Kallemeyn G. W.
Troctolites, aluminous mare basalts, and other clasts from 14304

Wednesday, March 13, 1985

PLANETARY PHYSICS AND DYNAMICS
1:30 p.m. Gilruth 206

Ross M. N.* Schubert G.
Tidal dissipation in a viscoelastic planet

Caputo M.*
The libration of a satellite caused by the tidal field of its planet

Banerdt W. B.* Golombek M. P.
Lithospheric strengths of the terrestrial planets

Bratt S. R.* Solomon S. C. Head J. W.
Subsurface heating during impact basin formation: Constraints from thermal contraction and thermal stress

Nellis W. J. Holmes N. C. Mitchell A. C. Radousky H. B. Ross M. Young D. A.
Properties of dense fluids in the outer planets

Durham W. B.* Kirby S. H. Heard H. C.
Rheology of the high pressure H2O ices II, III, and V

POSTER PRESENTATION

Grogger P. K.
Morphogenetic regions of terrastrial-like planets

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Dolginov Sh. Sh.
On the planet Uranus magnetic field

Grimm R. E. Solomon S. C.
Tectonic tests of proposed polar wander paths for Mars and the moon

Parmentier E. M. Grieve R. A. F. Cintala M.
Convective cooling of large impact basins

Shevchenko V. V. Rodionova Zh. F. Dekhtyareva K. I. Skobeleva T. P.
The surfaces of Venue, Mars, Mercury, and the moon: Some regularities

Wu S. S. C.
Rationale for using the gravity field to define the topographic datum of Mars

Thursday, March 14, 1985

GALILEAN SATELLITES
3:00 p.m. Gilruth 206

Thomas P. J.* Schubert G.
Crater relaxation as a probe of Europa's interior

Crawford G. D.* Stevenson D. J.
Gas-driven water volcanism and resurfacing on Europa

Golombek M. Buratti B.
Europa: Geologic implications of spectrophotometry

Murchie S. L.* Head J. W. III
Global tectonic mapping of Ganymede: A preliminary report

Bianchi R. Casacchia R.* Lanciano P. Pozio S.
Azimuthal distribution of the grooves on Ganymede

McEwen A. S.*
Volcanic hot spots on Io: The roles of sulfur and silicates

POSTER PRESENTATIONS

Croft S. K.
A new scenario for differentiation of Ganymede and Callisto: Beauty is only skin deep

Plescia J. B.
Geology of Rhea

Johnson T. V. Matson D. L. Veeder G. J. Brown R. H. Morrison D. Soderblom L. A. McEwen A. S.
Io's hotspots and heat flow: Constraints from Voyager and telescopic observations

Schenk P. M. McKinnon W. B.
Callisto is not boring!

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Croft S. K. Strom R. G.
Ganymede's crust: Structural indicators in the Tiamat Sulcis quadrangle

Helfenstein P. Wilson L.
Photometric constraints on the emplacement and evolution of terrains on Ganymede

Murchie S. L.
Tectonic features in the JG-4 quadrangle of Ganymede

Moore J. M. McEwen A. S. Albin E. F. Greeley R.
Topographic evidence for shield volcanism on Io: Implications for composition and lithospheric thickness

Thursday, March 14, 1985

ISOTOPIC ANOMALIES AND EARLY HISTORY
8:30 a.m. Gilruth 104

Clayton D. D.*
Interstellar 26Al and excess 26Mg

Esat T.* Spear R. H. Taylor S. R.
The unknown (UN) part of FUN revealed

Brigham C. A. Papanastassiou D. A. Wasserburg G. J.
Mg isotopic heterogeneities in fine-grained Ca-Al-rich inclusions

Fahey A. J. Goswami J. N. McKeegan K. D.* Zinner E.
Ion probe and track studies of CM hibonites: 26Al, 244Pu, and REE

Fahey A. J.* Goswami J. N. McKeegan K. D. Zinner E.
Ion probe measurements reveal large Ti isotopic effects in CM hibonites

Hinton R. W.* Davis A. M. Scatena-Wachel D. E.
Ion microprobe determination of calcium and magnesium isotopic mass fractionation in refractory inclusions

Hinton R. W.* Davis A. M. Scatena-Wachel D. E.
Ion microprobe determination of REE and other trace elements in meteoritic hibonite

Prombo C. A.* Clayton R. N.
A spectacular nitrogen isotopic anomaly in Bencubbin

Murty S. V. S.* Marti K.
Nitrogen isotopic abundances in individual chondrules

Clayton R. N.* Mayeda T. K.
Oxygen isotopes in chondrules from enstatite chondrites: Possible identification of a major nebular reservoir

Heidenreich J. E., III* Thiemens M. H.
A model for the production of chemical non-mass-dependent oxygen isotope effects

Kirschbaum C.*
Radiogenic 129Xer in individual minerals in Allende as studies with a laser microprobe

Heymann D.* Palme R. L.
Isotopic systematics of neon in sieve fractions of disaggregated Allende meteorite

Kastenmayer P.* Papanastassiou D. A. Wasserburg G. J.
Absolute Ti isotope abundances in whole meteorites and in refractory inclusions

Fisenko A. V. Vu Minh D. Semionova L. F. Shukolyukov Yu. A.* Lavrukhina A. K.
The unueual xenon in acid-resistant residues of the Efremovka CV chondrite

Muller N.* Jessberger E. K.
Laser 40Ar-39Ar dating of the EH3 Qinzhen chondrite

Thursday, March 14, 1985

LUNAR EVOLUTION
8:30 a.m. Gilruth Gym

Rice A.*
Quench cooling and convective fractionation in the early lunar environment

Willemann R. J.* Dawson C.
On the reorientation of the moon by masses at the lunar surface

Hood L. L.* Jones J.
Lunar density models consistent with mantle seismic velocities and other geophysical constraints

Solomon S. C.*
The elastic lithosphere: Some relationships among flexure, depth of lithospheric thickness, and thermal gradient

Meyer C.* Compston W. William I. S.
Lunar zircon and the closure age of the lunar crust

Spudis P. D.* Davie P. A.
How much anorthosite in the lunar cruet?: Implications for lunar crustal origin

Davis P. A.* Spudis P. D.
A petrologic province map of the lunar highlands from orbital geochemical data

Hawke B. R.* Lucey P. G. Bell J. F. Owensby P. D. Spudis P. D. Davis P. A.
Spectral studies of the highlands around the Nectaris Basin: Preliminary results

Lucey P. G.* Hawke B. R.
Three compositional anomalies at the Aristarchus region: Surface expression of a possible excavated plutonic complex

Wilhelms D. E.*
Lunar impact rates reconsidered

Cisowski S. M.* Fuller M.
Lunar eample paleointensity, via the IRMs normalization method

Chowdhary S. K.* Collinson D. W. Stephenson A. Runcorn S. K.
Further investigations into lunar palaeointensity determinations

Page T.*
Telescope in lunar orbit

POSTER PRESENTATION

Runcorn S. K.
Lunar palaeomagnetic directions and the existence of satellites around satellites

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Wilson L. Illing D. Head J. W.
Lunar sinuous rilles: Quantitative estimation of eruption conditions

Hawke B. R. Bell J. F. Gaddis L. Lucey P. G.
Remote sensing studies of endogenic and exogenic dark-haloed craters on the moon

Dolginov Sh. Sh.
On the problem of lunar paleomagnetism

Thursday, March 14, 1985

IMPACT CRATERING: OBSERVATION, EXPERIMENTATION, CALCULATION
8:30 a.m. Gilruth 206

Neukum G.*
On the question of cratering equilibrium versus production populations

Cintala M. J.* Smrekar S. Horz F. Cardenas F.
Impact experiments in H2O ice, I. Cratering

Cintala M. J.* Horz F. Smrekar S. Cardenas F.
Impact experiments in H2O ice, II. Collisional disruption

Smrekar S.* Cintala M. J. Horz F.
Impact experiments in cold rock targets, I: Cratering

Smrekar S.* Cintala M. J. Horz F. Cardenas F. Thompson T. D.
Impact experiments in cold rock, II: Collisional fragmentation

Polanskey C. A.* Ahrens T. J.
Spall velocity measurements of laboratory scale impact craters

Melosh H. J.*
Impact-ejected spalls from layered targets

O'Keefe J. D.* Ahrens T. J.
Sampling of planetary surfaces by oblique impact jet entrainment

Vickery A. M.*
An improved model of gas cloud acceleration of entrained ejecta

Schultz P. H.* Gault D. E.
Impact-induced vaporization: Effect of impact angle and atmospheric pressure

McKinnon W. B. Schenk P. M.
Ejecta blanket scaling on the Moon and Mercury--And inferences for projectile populations

Pike R. J.* Spudis P. D.
More evidence for the 2.0 0.5D mean spacing of basin rings

Croft S. K.*
Rim structures in lunar craters and basins: New constraints on the origin of asymmetric basin rings

Melosh H. J.*
The road to Panspermia: Impact ejection of living organisms into space

POSTER PRESENTATION

Vickery A. M. McConnell J. M.
Size-velocity distribution of ejecta fragments on three planetary bodies

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Ahrens T. J. O'Keefe J. D. Lange M. A.
Accretion of the earth's water budget and atmoepheric cratering

Feldman V. I. Letnikov F. A.
Behaviour of fluid components in the process of shock metamorphism

Kapustina I. G. Feldman V. I. Kolesov G. M.
Behaviour of some meteoritic material indicator elements in process of impact melt degassing

Mironov Yu. V.
Shock metamorphism peculiarities in unhomogenous basaltic targets

Rodionova Zh. F. Skobeleva T. P. Karlov A. A.
A morphological catalogue of lunar craters

Schultz P. H. Gault D. E.
The effect of projectile shape on cratering efficiency and crater profile in granular targets

Schultz P. H. Spudis P. D.
Procellarum basin: A major impact or the effect of Imbrium?

Shevchenko V. V. Sanovich A. N. Lejkin G. A.
On the problem of origin of multi-ring basins

Yakovlev O. I. Fainberg V. S. Shapkin A. I. Ramendik G. I.
Melt evaporation under fast heating conditions

Yakovlev O. I. Fainberg V. S. Shapkin A. I. Ramendik G. I.
Selective condensation of basaltic vapor

Thursday, March 14, 1985

PLANETARY DIFFERENTIATION
1:30 p.m. Gilruth 104

Abe Y. Matsui T.*
Early evolution of the earth

Matsui T.* Abe Y.
Early evolution of Venus and Mars

Gerasimov M. V. Mukhin L. M.*
Some geochemical consequences of the earth's impact differentiation

Holloway J. R.* Jakobsson S.
Magmas as semipermeable membranes between planetary interiors and surfaces

Anderson D. L.*
Major and trace element chemistry of the mantle

Palme H. Nickel K. G.*
A non-chondritic Ca,Al-ratio for the upper mantle of the Earth?

Stevenson D. J.*
Partitioning of noble gases at extreme pressures within planets

Murrell M. T.* Burnett D. S.
K, U, and Ca partitioning between sulfide and silicate liquids: Heating of planetary cores

Delano J. W.* Stone K.
Siderophile elements in the Earth's upper mantle: Secular variations and possible cause for their over-abundances

Newsom H. E.* W. M. White Jochum K. P.
Did the Earth's core grow through geological time?

Jones J. H. Drake M. J.
Experiments bearing on the formation and primordial differentiation of the Earth

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Kadik A. A. Lukanin O. A.
Fractionation of volatile components by degassing of "magma ocean"

Lukanin O. A. Kadik A. A.
Influence of the redox regime upon the melting of the upper mantle rocks in the presence of the volatile components of the C-O-H system

Thursday, March 14, 1985

ORDINARY AND ENSTATITE CHONDRITES
1:30 p.m. Gilruth Gym

Fogel R. A.* Rutherford M. J. Hess P. C.
Experimental study of Fe-Si-O equilibria in the metal phase of enstatite chondrites

Miura Y.* Shibuya G.
K-rich phase in Niho-3(Miyano) H3 chondrite

Lofgren G. E. Guimon R. K.* Sears D. W. G.
Devitrification and the thermoluminescence properties of type 3 chondrites

Grossman J. N.*
Chemical evolution of the matrix from Semarkona

Lofgren G.* Russell W. J.
Dynamic crystallization experiments on chondrule melts of porphyritic olivine composition

Scott E. R. D.* Taylor G. J. Keil K.
Nature and evolution of unmetamorphosed parent material of types 4-6 ordinary chondrites

Lusby D.* Scott E. R. D. Keil K.
Chemically anomalous objects in type 4-6 ordinary chondrites: Evidence for ubiquitous brecciation following metamorphism

Cirlin E. -H.* Taylor L. A. Lofgren G. E.
Fe/Mg KD for olivine/liquid in chondrules: Effects of cooling rate

Wlotzka F.*
Olivine-spinel and olivine-ilmenite thermometry in chondrites of different petrologic type

de Chazal S. Crozaz G.* Zinner E.
Uranium, plutonium, and REE in ordinary chondrites

Bourot-Denise M. Fabries J. Fieni C. Smith D. C. Touret J. Boyer H. Pallas P.*
Discovery of alpha-quartz-rich inclusions in ordinary chondrites

Fieni C. Bourto-Denise M. Pellas P.* Tourst J. Robert F.
Fluid inclusions in quartz and phosphates of ordinary chondrites: More data

Jovanovic S. Reed G. W., Jr.*
Submicroscopic weathering of Antarctic meteorites?

Kaczaral P. W. Dennison J. E. Lingner D. W. Lipschutz M. E.
Ordinary chondrite falls and congeners from Victoria Land, Antarctica: Derivation from different parent regions

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Baryshnikova G. V. Stakheeva S. A. Ignatenko K. I. Lavrukhina A. K.
Minerals composition in chondrules of various structural types of ordinary chondrites

Hughes S. S. Schmitt R. A.
Whole-rock INAA elemental abundances and REE variations in EH4, EH5, and EL6 chondrites

Ivanov A. V. Uluanov A. A.
The Kaidun IV enstatite chondrite: Significance for the classification of the enatatite chondrite clan

Miyamoto M. McKay D. S. McKay G. A. Duke M. B.
Cooling histories of chondrules in ordinary chondrites as inferred from chemical zoning of olivines

Mori H. Takeda H.
Magnesiowustite in a shock-produced vein of the Tenham chondrite

Nagahara H.
Multi-stage reduction in the primitive enstatite-chondrites

Petaev M. I. Lavrukhina A. K. Khodakovsky I. L.
On the genesis of enstatite meteorite minerals

Reimold W. U. Huth J. Huth J. Merkle H. Willner G.
Shock and thermal metamorphism in two lithologies from the Belle Plaine L6 chondrite

Scott E. R. D. Clayton R. N. Mayeda T. K.
Properties and genesis of two anomalous type 3 chondrites, Suwahib (Buwah) and Willaroy

Sneyd D. S. McSween H. Y., Jr. Labotka T. C.
Strain analysis of the Parnallee unequilibrated ordinary chondrite

Wieler R. Baur H. Graf Th. Signer P.
He, Ne, and Ar in antarctic meteorites: Solar noble gases in an enstatite chondrite

Gooding J. L.
Clay minerals in meteorites: Preliminary identification by analysis of goodness-of-fit to calculated structural formulas

Thursday, March 14, 1985

TERRESTRIAL IMPACT CRATERS AND TEKTITES
1:30 p.m. Gilruth 206

Robertson P. B.* Ostertag R. Bischoff L. Oskierski W. Hickey L. J. Dawson M. R.
First results of a multidisciplinary analysis of the Haughton impact crater, Devon Island, Canada. I. Geology.

Bischoff L.* Oskierski W.
First results of a multidisciplinary analysis of the Haughton impact crater, Devon Island, Canada. II. Structural geology.

Ostertag R. Robertson P. B. Stoffler D.* Wohrmeyer C.
First results of a multidisciplinary analysis of the Haughton impact crater, Devon Island, Canada. III. Petrograp and shock metamorphism

Pohl J.* Eckstaller A. Robertson P. B. Hajnal Z.
First results of a multidisciplinary analysis of the Haughton Dome impact structure, Devon Island, Canada. IV. Geophysics

Hajnal Z.* Scott D. Pohl J. Robertson P. B.
First results of multidisciplinary analysis of the Haughton impact crater, Devon Island, Canada. V. Seismic studies

Seeger C. R.* Asaro F. Michel H. Alvarez W. Alvarez L.
Iridium discovery at the Jeptha Knob cryptoexplosion structure, Kentucky

Read W. F.*
Impact bombs in Middle Ordovician marine sediments of southeastern Wisconsin

Lowe D. R.* Byerly G. R.
Chondrule-like particles provide evidence of early Archean meteorite impacts, South Africa and Western Australia

Koeberl C.*
Geochemistry of Muong-Nong type tektites VII: Chemistry of dark and light layers--first results

Koeberl C.* Kluger F. Kiesl W.
Geochemistry of Muong-Nong type tektites VIII: Short discussion of some correlation diagrams

Dod B. D.* Sipiera P. P. Povenmire H.
Electron microprobe and INAA analyses of major and trace element content for six georgiaites

Glass B. P.*
Late Eocene silicate spherules: Geographical distribution, description, and relationship to North American tektites

O'Keefe J. A.*
Tektite research: What is needed

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Agosto W. N.
Komatiites as sources of high magnesium microtektites

Badyukov D. D.
High pressure phases in impactites of the Zhamanshin crater/USSR

Gurov E. P. Gurova H. P.
Boltysh astrobleme: Impact crater pattern with a central uplift

Kochemasov G. G.
Attantion: Fulgurite!

Koeberl C.
A moldavite from Stainz (Styria, Austria): The moldavite strewn field revisited

Nicolaysen L. O. Reimold W. U.
Shock deformation, shatter cones, and pseudotachylite at Vredefort: A review of major unsolved problems and current efforts to resolve them

Parfenova O. V. Glazovskaya L. I. Gromov Ye. I. Ilkevich G. I.
Peculiarities of composition of shock melts in craters with a two-layer target

Reimold W. U. Andreoli M. Hart R.
Pseudotachylite from the Vredefort Dome

Friday, March 15, 1985

EARTH'S CRUSTAL EVOLUTION: MAGMATISM, VOLATILES AND TECTONICS
8:30 a.m. Gilruth 104

Haskin L. A.* Salpas P. A.
Petrogenesis of Stillwater anorthosites of the middle banded zone: Causes of geochemical trends

Salpas P. A. Haskin L. A.*
Metosomatic or deuteric alteration in Stillwater anorthosites

Kempton P. D.* Weaver B. L. Harmon R. S. Blanchard D. Fitton J. G. Hoefs J. Moorbath S.
Granulite xenoliths from the Geronimo volcanic field, SE Arizona: Evidence for a heterogeneous proterozoic lower crust beneath the southwestern U.S.

Sylvester P.* Attoh K. Schulz K.
Origin of HREE-depleted Archean dacites: A case study from the Wawa (Michipicoten) greenstone belt

Byerly G. R.* Lowe D. R.
Late-stage komatiitic and dacitic volcanism in the early Archean Barberton Greenstone Belt, South Africa

Faggart B. E. Basu A. R.* Tatsumoto M.
Nd-isotopic evidence for the origin of the Sudbury Complex by meteoritic impact

Gibson E. K., Jr.* Carr L. P. Pillinger C. T.
Nitrogen isotopic composition of Archean samples: Evidence of the earth's early atmosphere?

Sommer M. A.* Gibson E. K. Bourcier W.
Trapped volatiles in Archean rocks

Lux G.*
Behavior of noble gases in silicate liquids: Preliminary results

Kennedy B. M.* Reynolds J. H. Smith S. P.
Noble gases from a continental hot spot: The Yellowstone caldera

Fisher D. E.*
Rare gases in terrestrial rocks: Mantle heterogeneity or atmospheric contamination

El Shazly E. M.*
The plate-orogenic theory and its application to planets

Kochemasov G. G.*
Enigmatic earthquake in Guinea (Conakry): A sign of longevity of the AR2-PR fosses on face of stable Archean cratons

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Barnes S. J.
Solubility of chromium in a synthetic Bushveld/Stillwater parent liquid at 1 atm. as a function of temperature and oxygen fugacity

Barnes S. J.
Experimental determination of partition coefficients for Cr between orthopyroxene and a synthetic Bushveld/Stillwater parent melt, as a function of oxygen fugacity and temperature: Implications for the distribution of chromite in layered intrusions

Boudreau A. E. McCallum I. S.
Variation in sulfur and oxygen fugacity associated with PGE-sulfide mineralization

Boudreau A. E. McCallum I. S.
Composition of apatite and biotite from the Stillwater Complex, Montana: Evidence for hydrothermal transport of PGE and REE in Cl-bearing solutions

Criscenti L. J. McCallum I. S.
Evidence for an oscillatory nucleation mechanism from macrorhythmic units in the Stillwater Complex

Gitlin E. C. Salpas P. A. McCallum I. S. Haskin L. A.
Small scale compositional heterogeneities in Stillwater anorthosite II

Morrison D. Haskin L. Qui Y. Phinney W. C. Maczuga D.
Alteration in Archean anorthosite complexes

Shervais J. W. Taylor L. A. Korotev R. L.
Petrology and mineral chemistry of some African eclogites and the evolution of sub-continental mantle and continental crust

Sommer M. A. Gibson E. K.
Determination of the volatile components of fluid inclusions in Archean rocks using micro-crushing and thermal decrepitation coupled with a capacitance manometer and mass spectrometer

Friday, March 15, 1985

DIFFERENTIATED METEORITES
8:30 a.m. Gilruth Gym

Ott U.* Lohr H. P. Begemann F.
Trapped noble gases in 5 more ureilites and the possible role of Q

Goodrich C. A.* Berkley J. L.
Minor elements in ureilites: Evidence for reverse fractionation and interstitial silicate liquids

Takeda H.* Mori H. Tachikawa O.
Cloudy pigeonite in Yamato 790981 with reference to the origin of chemical trends of ureilites

Berkley J. L.* Goodrich C. A.
Cohenite-bearing metallic spherules in ureilites: Petrology and implications

Miyamoto M.* Toyoda H. Takeda H.
Thermal history of ureilite as inferred from mineralogy of Pecora Escarpment 82506

Wasson J. T.* Rubin A. E.
Formation of mesosiderites as a natural consequence of planetary formation

Hewins R. H.* Harriott T. A.
Phase separation in plagioclase-POIK mesosiderites

Agosto W. N.*
Liquidus phosphorus redox reactions in mesosiderite silicates

Takeda H.*
Crystal fractionation of the HED (Howardite, Eucrite, Diogenite) achondrite parent body as inferred from Yamato 791073

Chen J. H.* Wasserburg G. J.
U-Th-Pb isotopic studies on meteorite ALHA81005 and Ibitira

Bansal B. M.* Shih C.-Y. Wiesmann H. Nyquist L. E. Wooden J. L. Takeda H.
Rb-Sr internal isochron age of a subophitic basalt clast from the Y75011 eucrite

Lamoine P. M.* Strait M. M.
Determination of the REE-containing mineral phase of enstatite achondrites

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Grady M. M. Pillinger C. T.
Carbon in basaltic achondrites: A preliminary investigation

Hewins R. H.
Petrologic data for Antarctic mesosiderites

Lang B. Grodzinski A. Stoch L.
Thermochemical response of meteoritic metal phase to heating in air

Malvin D. J. Jones J. H. Drake M. J.
Magmatic iron meteorites: Definition of elemental partitioning in the system Fe-Ni-S-P

Rao A. S. P.
Origin of silicate inclusions in iron meteorites

Spangler R. R. Warasila R. L.
39Ar-40Ar ages of ALHA 77302, 77256 and 77219

Friday, March 15, 1985

REMOTE SENSING APPROACHES
8:30 a.m. Gilruth 206

Vilas F.*
New CCD reflectance spectra of Mercury

Harmon J. K.* Campbell D. B. Bindschadler D. L. Head J. W.
Shapiro I. I.
Mercury radar altimetry: New results

Clark P. E.* Jurgens R. F.
Radar-derived morphology of linear features on Mercury

Greeley R.* Christensen P. McHone J. F.
Radar characteristics of small craters: Implications for Venus

Fink J.* Zimbelman J.
Field measurements of 1983-84 lava flows at Kilauea and Mauna Loa volcanoes: Basis for comparison with Mars

Schaber G. G.* Breed C. S. McCauley J. F. Billingsley G. H.
Physical controls on SIR-A signal penetration and subsurface scattering in the Mars-like eastern Sahara

Jakosky B. M.* Christensen P. R.
Interpretation of remote-sensing observations of Mars

Martin T. Z.* Kieffer H. H.
Improved access to martian infrared radiometry/spectroscopy datasets

Metzger A. E.*
High energy accelerator bombardments simulating planetary gamma-ray production by cosmic rays

Hapke B. W.* Graham F. G.
Disulfur monoxide and the spectra of Io and Venus

Pang K. D.* Lunine J. Rhoads J. W.
The unusual photometric properties of some outer satellites: Evidence for geologic activity?

Hubbard W. B.* Brahic A. Pouchet P. Elicer L.-R. Haefner R.
Manfroid J. Roques F. Sicardy B. Vilas F.
Occultation detection of a Neptune ring segment

POSTER PRESENTATION

Zimbelman J. R.
Estimates of rheologic properties for six martian lava flows

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Christensen P. R. Greeley R.
SIR-A observations of a silicic shield volcano in Bolivia

Dyar M. D. Birnie D. P. Nancy M. T. Swanson S. E.
The theoretical determination and experimental effects of cooling history on silicate glasses

El-Baz F.
New mapping-quality photographs of the earth and their applications to planetary comparisons

Helfenstein P.
The geological scale of photometrically derived surface roughness

Hiroi T. Miyamoto M. Takano Y.
An assignment of photon absorptions to Fe^{2+} and Cr^{3+} in pyroxenes and olivine by Crystal Field Theory

Kinoshita M. Miyamoto M. Takano Y.
A model to determine the spectral reflectances of mineral mixtures

Martel L. Greeley R.
Radar study of a basaltic lava plain: Craters of the Moon, Idaho

Morris R. V.
Determination of optical penetration depth from reflectance and transmittance measurements on Albite powders

Shkuratov Yu. G. Akimov L. A. Vokhmentzev A. Ya.
Antipova-Karataysva I. I.
An optical study of carbonaceous chondrites and basalt achondrites

Thompson T. W. Moore H. J.
Landform identification in lunar radar images

Wilson L. Hampton J. S. Balen H. C.
Photoclinometry of terrestrial and planetary surfaces

McEwen A. S. Christensen P. R. Greeley R.
Discovery of a resurgent caldera in Bolivia from LANDSAT

Adams J. B.	MARS DUST: DISTRIBUTION & COMPOSITION, WED. AM, G206
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Aylmer D.	COSMIC RAYS, IRRADIATION EFFECTS & SPECIAL ISOTOPES, MON. AM, G206
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Becker R. H.	THE SHERGOTTY CONSORTIUM, MON. PM, GYM
Bell J.	ASTEROIDS AND COMETS, TUES. PM, G206
Berkley J. L.	DIFFERENTIATED METEORITES, FRI. AM, GYM
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Bogard D.	LUNAR REGOLITH: SOILS, BRECCIAS, METEORITES, TUES. AM, GYM
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Clayton R. N.	ISOTOPIC ANOMALIES AND EARLY HISTORY, THURS. AM, G104
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De Hon R. A.	MARTIAN GEOLOGY AND PROCESSES, TUES. AM, G206
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Eugster O.	MARE BASALTS, WED. PM, GYM
Fahey A. J.	ISOTOPIC ANOMALIES AND EARLY HISTORY, THURS. AM, G104
Fanale F.	MARS VOLATILES AND CLIMATE HISTORY, TUES. PM, GYM
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Muller N. ISOTOPIC ANOMALIES AND EARLY HISTORY, THURS. AM, G104

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Nickel K. G. — PLANETARY DIFFERENTIATION, THURS. PM, G104
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LUNAR AND PLANETARY INSTITUTE
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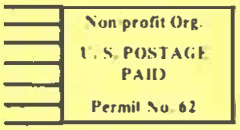
Houston, TX 77058-4399

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