

LPI TOPICAL CONFERENCE

ORIGINS OF PLANETARY MAGNETISM

8-11 NOVEMBER 1978

FINAL ANNOUNCEMENT

A three and one-half day topical conference on "Origins of Planetary Magnetism" will be held at the Lunar and Planetary Institute, Houston, Texas, November 8-11, 1978. Details of proposed conference arrangements are enclosed. Please fill out and return the pre-registration form together with the \$35 registration fee as soon as possible. Pre-registration will greatly facilitate our preparations, but if you cannot pre-register before November 1st, please plan to register at the Institute during the conference. The fee is waived for those who are students active in degree-granting programs.

CONFERENCE OUTLINE

The purpose of this meeting is to promote the assimilation and comparison of the various data sets on planetary magnetic fields gathered in recent years by spacecraft and ground-based observations, and to examine these data in the light of our knowledge of the Earth's field, recent advances in dynamo and other theory, and our knowledge of planetary interiors and their thermal evolution. The conference will begin with a brief review of the Earth and geomagnetism to set the stage for the session which follows on the magnetism of the terrestrial planets. The second day is devoted to dynamo theory, and will conclude with several papers on "scaling laws" for planetary magnetism. The third day will begin with an examination of the magnetic fields and possible generation mechanisms in the outer planets; then in mid-morning, the subject will change to lunar magnetism. The remainder of the day will be devoted to the discussion of this important subject, as well as lunar paleomagnetism, possible states of an early lunar dynamo, and the origin and mechanisms of remanent magnetization in lunar materials. The final session on Saturday morning will focus on meteoritic magnetism and possible magnetic fields in the early solar system. The conference will conclude with a panel discussion during which the outstanding problems and directions for future research in planetary magnetism will be debated. Throughout the conference the emphasis will be on active discussion and the exchange of ideas among the participants.

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REGISTRATION

Participants may register at the Lunar and Planetary Institute Wednesday, November 8, beginning at 8:00 a.m. The first session is scheduled to begin at 8:30 a.m.

COCKTAIL PARTY

An informal cocktail party will commence immediately following the last presentation on Wednesday afternoon, at approximately 5:30 p.m. All participants are invited to attend.

BANQUET

A banquet will be held at the Sheraton King's Inn, 1301 NASA Road 1, beginning at 7:00 p.m., November 10th. Pre-dinner cash-barcocktail service will begin at 6:30 p.m. Tickets for the banquet will cost \$7.00 each, and will be available for purchase at the registration desk through Thursday, November 9th, until 11:00 a.m. Spouses and companions of participants are welcome to attend.

PROCEEDINGS

Current plans are for the proceedings of this meeting to be published in *Physics of the Earth and Planetary Interiors*. DEADLINE for initial manuscript submission is January 15, 1979. Publication will occur in Summer, 1979. Instructions for manuscript preparation, review and revision will be available at the conference. Overall editorial responsibilities will be handled by Russell Merrill as Managing Editor, and by Leonard Srnka as Science Editor.

CONFERENCE ABSTRACTS

Papers Presented to the Conference on the Origins of Planetary Magnetism will be distributed with the conference program by mail prior to the meeting. Abstracts will also be available at registration. Following the conference, copies may be obtained by sending \$1.00 (Continental US) or \$6.00 (foreign) to the Administrative Office, Lunar and Planetary Institute.

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AUDIO-VISUAL AIDS

Projection of lantern slides, viewgraphs, 16mm movies, and dual screen presentation of 35mm slides will be available. Please prepare your slides as instructed on the enclosed form, and turn them in to the projectionist prior to the beginning of the session in which you are scheduled to speak.

ACCOMMODATIONS/TRAVEL

A list of local hotels with current rates is enclosed. Responsibility for making reservations is left to the participant. Information on travel and a map of the local area are also enclosed. Please note that Metro Air Lines service from Clear Lake to Houston Intercontinental Airport is very limited on Saturday and Sunday (see enclosed schedule). Arrangements for transportation to Intercontinental should be made well in advance.

SEATING

Eighty chairs will be available on a first come, first seated basis in the Berkner Room. Additional seating will be available in the Hess Room, with the proceedings of the sessions monitored via closed-circuit television.

MESSAGES

Messages will be taken by the LPI switchboard during sessions and posted. Telephone numbers are: 713-488-5200; FTS: 525-3436.

For further information on this conference, please contact Pam Jones, Lunar and Planetary Institute, 713-488-5202, ext. 50.

THE ORGANIZING COMMITTEE

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