LUNAR AND PLANETARY INSTITUTE

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WORKSHOP ON THE EARLY EARTH: THE INTERVAL FROM ACCRETION TO THE OLDER ARCHEAN

FIRST ANNOUNCEMENT

December 30, 1984

Dear Colleague:

As a contribution to NASA's current Crustal Genesis Project, a workshop on the Early Earth will be held at the Lunar and Planetary Institute, in Houston April 23-24, 1984. The goal of this workshop is to review current understanding of the processes of earth formation and that of the older Archean rocks, with a view to addressing the question: What was the earth like between its formation and that of the oldest preserved rocks?; What theoretical, observational or experimental studies can be initiated at this time in order to address this question? It is hoped that the workshop will involve a range of disciplines as well as focus on recent advances in studies of planetary accretion, isotope geochemistry, thermal history modelling and Archean geology, all of which could influence our way of looking at this fascinating interval. A tentative program outline is attached.

It is expected that abstracts will be due shortly before the meeting. A technical report will be produced during the month that follows. Forms and information concerning abstract preparation will be mailed to all those who return the attached indication of interest form. Because of the size of the facilities and the goal of extended discussion, attendance will be limited to 80 persons. If you would like to attend, please list briefly your proposed contribution to the conference on the interest form. If you have questions regarding this meeting, please feel free to contact me.

Sincerely yours,

Kevin Burke

Kevin Burke
Chairman, Program Committee

/pj

TENTATIVE TOPICS

WORKSHOP ON THE EARLY EARTH:
What Questions Can we Pose and How Can we Attempt to Answer Those Questions?

April 23-25, 1984 LPI-Houston

Monday, April 23

Accretion of the earth and processes accompanying and immediately following it, including core formation: G. SHOEMAKER AND OTHERS.

Evidence from meteorites as to what it was like in the early solar system: G. LUGMAIR AND OTHERS.

Impact records and other information from planets and the Moon relevant to early Earth history: R. GRIEVE AND OTHERS

Tuesday, April 24

Isotopic patterns of the oldest rocks: What do they tell us about earlier times? D. DEPAOLO, S. JACOBSEN

Igneous, sedimentary and metamorphic petrology of the oldest rocks.

The structure of the oldest rocks and implications for the oldest continents: W. KIDD, K. BURKE.

Volatiles and early Earth history, especially noble gases: W. JENKINS, M. KURZ AND OTHERS.

Wednesday, April 25th

Integrative models of the early Earth.

Presentation of summaries by Session Reporters and recommendations for research.