IN SITU RESOURCE UTILIZATION (ISRU)
TECHNICAL INTERCHANGE MEETING

February 4–5, 1997
Lunar and Planetary Institute, Houston, Texas

AGENDA

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Tuesday, February 4

8:00 a.m.	Registration
8:45 a.m.	Welcome
9:15 a.m.	J. Sanders *ISRU Roadmap*
10:00 a.m.	BREAK
10:15 a.m.	D. Rapp *Adsorption Pump for Acquisition and Compression of Atmospheric CO_2 on Mars*
11:00 a.m.	M. Reddig *CO_2 Pumping System for Mars ISRU: Advanced Absorbent Materials*
11:30 a.m.	J. E. Finn *Mining the Mars Atmosphere*
12:00 noon	LUNCH
12:30 p.m.	MIST Facility Tour
1:30 p.m.	M. L. Stancati *Mars In Situ Propellant Production: Needs and Technologies*
2:15 p.m.	T. Nakamura *Optical Waveguide Solar Energy System for Lunar Materials Processing*
2:45 p.m.	A. Ignatiev *Thin Film Solar Cell Growth on the Surface of the Moon by Vacuum Evaporation*
3:15 p.m.	BREAK

3:30 p.m.	C. Knudsen *Hydrogen Reduction of Lunar Soil*
4:15 p.m.	T. D. Lin *Concrete: A Low-Cost Lunar and Planetary Construction Material*
4:45 p.m.	C. C. Allen *Regolith Evolved Gas Analyzer (REGA)*

Wednesday, February 5

8:00 a.m.	Announcements
8:15 a.m.	K. Ramohalli *A Quantitative Methodology for Mission Architecture and Figure-of-Merit with ISRU and Comparisons with a Baseline*
9:00 a.m.	N. Q. Minh *Production of Oxygen from Carbon Dioxide Using Zirconia Electrolysis Cells*
9:30 a.m.	K. R. Sridhar *Oxygen Production on Mars Using Solid Oxide Electrolysis*
10:00 a.m.	BREAK
10:15 a.m.	A. F. Hepp *A Chemical Approach to Carbon Dioxide Utilization on Mars*
10:45 a.m.	T. Meyer *Investigation of the Reverse Water Gas Shift Reaction for Production of Oxygen from Mars Atmospheric Carbon Dioxide*
11:15 a.m.	L. Vuskovic *Radio-Frequency-based Glow-Discharge Extraction of Oxygen from Martian Atmosphere: Experimental Results and System Validation Strategies*
11:45 a.m.	LUNCH
12:15 p.m.	MIST Facility Tour
1:30 p.m.	R. S. Wegeng *Chemical Process System Miniaturization*

2:15 p.m.	A. MacKnight *Assessment of Liquefaction/Refrigeration of Mars In Situ Propellant Production*
2:45 p.m.	S. Gorevan *Technology Allowing for Qualification, Sampling, Removal and Excavation of Minerals and Elements from Below the Surface of Planetary Bodies*
3:15 p.m.	S. C. Coons *Experimental Study of a Water Vapor Adsorption Reactor for Mars In Situ Resource Utilization*
3:45 p.m.	BREAK
4:00 p.m.	D. L. Clark *In Situ Propellant Production on Mars: A Sabatier/Electrolysis Demonstration Plant*
4:45 p.m.	D. Kaplan *MIP Flight Demonstration*
5:15 p.m.	Meeting Wrap Up