


Standard Include starts




**NATIONAL AERONAUTICS
AND SPACE ADMINISTRATION**

+ NASA Home
+ S&MS Home

FIND IT @ NASA :

+ GO




In Situ Resource Utilization (ISRU) Element

at Marshall Space Flight Center

+ Home

In Situ Resource Utilization



ISRU

- + Publications
- + Simulant Development
 - + Logic of Program
 - + Igneous Rocks
 - + Simulant Documents
- + Molten Oxide Electrolysis
- + Role of Regolith
- + Meet the Project Scientist
- + Our Workshops
- + Links
- + **ISFR**
 - + Fabrication Technologies
 - + Repair & NDE Technologies
 - + Technologies Archive
- + **Other Links**
 - + [Science & Mission Systems](#)
 - + [Exploration & Space Ops](#)
 - + [Vision For Exploration](#)
 - + [Watch NASA TV](#)
 - + [Marshall Space Flight Center](#)
 - + [Want to work at NASA?](#)

2005 Workshop

Lunar Regolith Simulant Materials: Recommendations for Standardization, Production, and Usage
NASA/TP - 2006-214605 (2005 Workshop Final Report)

Related Material:

- [Book of Abstracts](#) - Lunar Regolith Simulant Materials Workshop, 1/24/05
- Lunar Sourcebook Available at [Lunar and Planetary Institute Online Store](#). Available for limited use (CD-ROM version \$20)

Presentations - Day 1

- [Laurent Sibille](#) - The Status of Lunar Simulant Materials, Workshop Overview and Objectives
- [Larry Taylor](#) - Physical and Chemical Characteristics of Lunar Regolith: Considerations for Simulants
- [David McKay](#) - Evolution of the Lunar Regolith
- [Larry Taylor](#) - The Geotechnical Properties of the Lunar Regolith: From Equator to the Poles
- [Susan Batiste](#) - Lunar Regolith Simulant MLS-1: Production and Engineering Properties
- [Paul Carpenter](#) - Characterization Strategies and Requirements for Lunar Regolith Simulant Materials
- [Paul Carpenter](#) - JSC Mars-1 Martian Soil Simulant: Melting Experiments and Electron Microprobe Studies
- [Greg Meeker](#) - Characterization of Chemical and Physical Properties of Proposed Simulant Materials
- [Steve Wilson](#) - Development of Geochemical Reference Materials at the United States Geological Survey
- [Masami Nakagawa](#) - The Moon as a Beach of Fine Powders
- [Russ Kerschmann](#) - Biological Effects of Lunar Surface Mineral Particulates
- [James Gaier](#) - The Effects of Lunar Dust on Advanced EVA Systems: Lessons from Apollo

Presentations - Day 2

- [Gary Lofgren](#) - Sintering, Melting, and Crystallization of Lunar Soil With An Experimental Petrologic Point of View
- [Donald Sadoway](#) - Towards Lunar Simulants Possessing Properties Critical to Research & Development of Extractive Processes
- [Donald Sadoway](#) - Extraction Processes in Supercritical Fluids (SCFs)
- [Ernest Berney](#) - The In-Situ State: The Elusive Ingredient in Lunar Simulant
- [David Cole](#) - Lunar Regolith Simulant Requirements: Mechanical Properties Considerations
- [Paul Lowman](#) - Composition of the Lunar Highland Crust: A New Model
- [Jim Adams](#) - Space Radiation and Lunar Regolith
- [Larry Taylor](#) - Geologic Settings for Simulant
- [David Lynch](#) - Presentation

Poster Presentations

- [FARM - Fabrication, Assembly and Repair Module](#)
- [In-Situ Resources Utilization Processing of Lunar Materials](#) - Dr. Ramana Reddy
- [In Situ Fabrication and Repair - Solid Freeform Fabrication](#)
- [Fused Deposition Modeling \(FDM\) Technology Demo Concept for MSG](#)

Download the latest Adobe Acrobat reader here: www.adobe.com/products/acrobat/readstep2.html

MORE NASA SITES:

NASA Sites...

GO

NASA Enterprises and Centers...

GO



- + Web Services Provided by: UNITEs
- + Freedom of Information Act
- + The President's Management Agenda
- + NASA Privacy Statement, Disclaimer & Accessibility Certification



Curator: [Anthony Goodeill](#)
NASA Official: [Carole McLemore](#)
Last Updated: 07 September 2016.