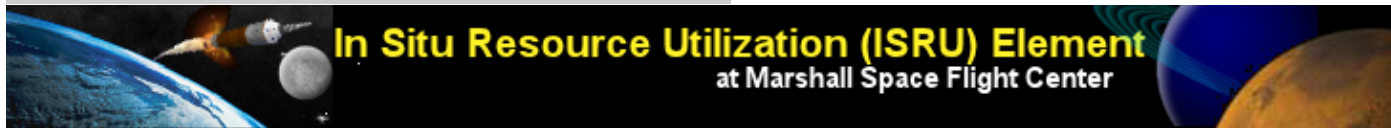


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In Situ Resource Utilization




ISRU

2010 Workshop for the Lunar Applications of Mining and Mineral Beneficiation

October 5-7, 2010 at Montana Tech in Butte, MT. Full website and details here: www.mtech.edu/mines/metallurgy/workshop/

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- + Simulant Development
 - + Logic of Program
 - + Igneous Rocks
 - + Simulant Documents
- + Molten Oxide Electrolysis
- + Role of Regolith
- + Meet the Project Scientist
- + Our Workshops
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Presenter	Company	Presentation Title 
Welcome and Introductions		
Courtney Young, Ed Deal, Jay McCloskey	Montana Tech	
Session I: Problem Statements		
Bill Larson	NASA / KSC	In Situ Resource Utilization Human Exploration Requirements Abstract Presentation
Larry Taylor	Univ. of Tennessee	The Role of Lunar Simulants Versus Apollo Samples for ISRU Activities Abstract Presentation
Doug Rickman	NASA / MSFC	The Roles of Beneficiation in Lunar Work Abstract Presentation
Session II: Lunar Resources		
Ken Street	NASA / GRC	Moon 101 - Living on a Dusty Moon Abstract Presentation
Jennifer Edmunson	NASA / MSFC	Lunar Resources Abstract Presentation
Session III: Mining Lunar Resources		
Chris Dreyer with P.J. van Susante	Colorado School of Mines	Lunar Excavation Systems at the Colorado School of Mines Abstract Presentation
Phil Metzger with J.G. Mantovani, I.I. Townsend and R. P. Mueller	NASA	Integrating Beneficiation into Regolith Conveyance Systems Abstract Presentation
Dale Boucher with D. Roberts, M. Viel, T. Atwell, J. Kutchaw and R. Theiss	Norcat	Crushing for ISRU Applications Abstract

Session IV: Processing and Mineral Beneficiation I		
Ken Street with C. Ray, D. Rickman and D.A. Scheiman	NASA	Thermal Properties of Lunar Regolith Simulants Abstract Presentation
Larry Taylor	Univ. of Tennessee	Mineral Beneficiation Studies Using Apollo Rocks and Soils Abstract Presentation
Lucy Thompson with J.G. Spray, and M.M. Battler	Univ. of New Brunswick	Lunar Highland Regolith Simulant and Agglutinate Production at the University of New Brunswick Abstract Presentation
Jackie Quinn with J.G. Captain, K.H. Weis and S. Trigwell	NASA	Tribocharging Lunar Simulant for Electrostatic Beneficiation Abstract Presentation
Session V: Processing and Mineral Beneficiation II		
Mike Moats with J.D. Miller, C.L. Lin and R. Rajamani	Univ. of Utah	Effect of Comminution Method on Particle Damage and Breakage Energy Abstract Presentation
Courtney Young with J. Graham and P. Miranda	Montana Tech	Mineral Liberation Analysis of Stillwater Norite Feedstock Piles Abstract Presentation
Session VI: Processing and Mineral Beneficiation III		
Bill Cross	S. Dakota School of Mines	Lunar Regolith Simulant Mineral Processing and Characterization Abstract Presentation
Jackie Graham and Danielle Granlund with C. Young	Montana Tech	Preliminary Study of Lunar Separate Production from Stillwater Deposits Abstract Presentation **
Suzzann Nordwick and Roger Lambson with J. Graham, E. Dahlgren and C. Young	Montana Tech	Beneficiation of Terrestrial Resources for the Production of Lunar Simulant Separates Abstract Presentation

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** Presentation given by Dr. Dian Wolfgram. Dr. Diane Wolfgram worked with Janet Schweizerhof. Janet was one of four undergraduate students that conducted research at Montana Tech in the Department of Metallurgical & Materials Engineering through their Undergraduate Research Program (URP). The Geology of the Stillwater Complex is covered in the first portion of the student presentation on making lunar simulant from earth resources. Please see for details. Because Janet was not available during this workshop, Dr. Wolfgram gave the geology presentation and two students, Jackie Graham and Danielle Granlund, gave the rest of the presentation. Another student, Peter Rossiter, was also not available to participate.

For more information, please contact:

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