

USGS Mineral Resources Program

Science & Information Forum

Program Schedule

May 5-7, 2015

USGS National Center, J.W. Powell Building

12201 Sunrise Valley Dr.

Reston VA 20192

Tuesday, May 5

9:00 am - 12:00 pm	Leadership Training: High Performance Teams (<i>pre-selected participation</i>)	Visitor's Center (1C400)
12:00 pm - 1:30 pm	Poster set up – Registration – Lunch Art Hallway / Auditorium Area / Cafeteria	
1:30 pm - 1:45 pm	Welcome and Opening Remarks: <i>Suzette Kimball, Larry Meinert</i>	Dallas Peck Auditorium
1:45 pm - 2:30 pm	Plenary Session 1: <u>Panel Discussion</u> – MRP Science and Information: Who needs it and what do they want? <i>Panel: L. Meinert (moderator), S. Kimball, H. Thorleifson, J. Thompson, R. Deery</i>	Dallas Peck Auditorium
2:30 pm - 5:30 pm	Poster Session 1 – Projects focused on: <ul style="list-style-type: none"> - Assessment of Undiscovered Mineral Resources - Characterization of the Midcontinent Rift and Related Mineral Resources - Geophysics and Remote Sensing: State-of-the-art tools for understanding mineral resource potential 	Art Hallway/ Auditorium Stage Area
2:30 pm - 4 :00 pm	Breakout Session 1: Future Directions in Environmental and Exploration Geochemistry	Visitor's Center (1C400)
4:00 pm - 5:30 pm	Breakout Session 2: Future Directions in Analytical and Isotope Geochemistry	1B215
6:00 pm - 8:00 pm	Welcome Reception	Sheraton Herndon/Dulles

Wednesday, May 6 (AM)

8:00 am - 9:00 am	Plenary Session 2: National-scale Efforts in Cooperation with Others <ul style="list-style-type: none"> - Soil Geochemical Landscapes Project – <i>D. Smith</i> - USMIN – A New National Mineral Resource Database – <i>G. Fernette</i> 	Dallas Peck Auditorium
9:00 am - 12:00 pm	Poster Session 2 – Projects focused on: <ul style="list-style-type: none"> - Geologic and Mineral Resource Studies in Alaska - Characterization and Identification of Critical Mineral Resources 	Art Hallway/ Auditorium Stage Area
9:00 am - 10:30 am	Breakout Session 3: Future Directions in Remote Sensing	Visitor's Center (1C400)
10:30 am - 12:00 pm	Breakout Session 4: Future Directions in Geostatistical and Spatial Analysis of Data	1B215

Wednesday, May 6 (PM)

12:00 pm - 1:00 pm	Lunch	Cafeteria
1:00 pm - 2:00 pm	Plenary Session 3: Communicating Your Science – <i>M. Jarvis, A.B Wade, T. Wood</i>	Dallas Peck Auditorium
2:00 pm - 5:00 pm	Poster Session 3 – Projects focused on: <ul style="list-style-type: none"> - Labs/Analytical Research & Development and Support - Data Inventory and Delivery 	Art Hallway/ Auditorium Stage Area
2:00 pm - 3:30 pm	Breakout Session 5: Future Directions in Economic Geology	Visitor's Center (1C400)
3:30 pm - 5:00 pm	Breakout Session 6: Future Directions in Mineral Resource Assessments	1B215
5:00 pm - 5:30 pm	Plenary Session 4: Open Innovation: Engaging Citizens to Enhance Science in the Networked World – <i>S. Liu</i>	Dallas Peck Auditorium

Thursday, May 7

8:00 am - 9:00 am	Plenary Session 5: Minerals Information and Supply Chain Analysis (SCA) <ul style="list-style-type: none"> - National Mineral Information Center (NMIC): Overview and New Directions – <i>S. Fortier</i> - SCA Projects – Past, Present and Future –<i>M. Magyar</i> 	Dallas Peck Auditorium
9:00 am - 12:00 pm	Poster Session 4 – Projects focused on: <ul style="list-style-type: none"> - Mineral Resources and the Environment - Data Analysis & IT Management - Outreach & Communication 	Art Hallway/ Auditorium Stage Area
9:00 am - 10:30 am	Breakout Session 7: Future Research in Alaska	Visitor's Center (1C400)
10:30 am – 12:00 pm	Breakout Session 8: Future Directions in Minerals Information and Supply Chain Analysis	1B215
12:00 pm - 1:00 pm	Lunch	Cafeteria
1:00 pm – 4:00 pm	Poster Session 5 – Projects focused on: <ul style="list-style-type: none"> - Minerals Information & Supply Chain Analysis - Mineral Resource Research and Information 	Art Hallway/ Auditorium Stage Area
1:00 pm – 2:30 pm	Breakout Session 9: Future Directions in Geophysics	Visitor's Center (1C400)
2:30 pm – 4:00 pm	Breakout Session 10: Integrating Crowdsourcing, Citizen Science, and Civic Hacking to Enhance MRP Science	1B215
4:00 pm – 5:00 pm	Plenary Session 6: 75 Years of Experience: the past, present and future of USGS economic geology – <i>J. Slack & R. Goldfarb (moderated by L. Meinert)</i>	Dallas Peck Auditorium

	Day 1: Tues 5 May						Day 2: Wed 6 May						Day 3: Thur 7 May						
8:00																			8:00
8:30																			8:30
9:00	Leadership Training: High Performance Teams (pre-selected participation)						Plenary Session 2 National-Scale Efforts in Cooperation with Others Soil Geochemical Landscapes (D. Smith), USMIN (Fernette)			Plenary Session 5 Minerals Information and Supply Chain Analysis (SCA) NMIC Overview (S. Fortier), SCA Projects - Past, Present and Future (M. Magyar)									9:00
9:30							Poster Session 2 Alaska Critical Minerals			Breakout-3 Future Directions in Remote Sensing			Poster Session 4 Mineral Resources and the Environment Data Analysis & IT Management Outreach & Communication			Breakout-7 Future Research in Alaska			9:30
10:00										Breakout-4 Future Directions in Geostatistical and Spatial Analysis of Data			Breakout-8 Future Directions in Minerals Information and Supply Chain Analysis						10:00
10:30																			10:30
11:00																			11:00
11:30																			11:30
12:00	Poster Set-up / Registration / Lunch						Lunch						Lunch						12:00
12:30																			12:30
1:00							Plenary Session 3 Communicating Your Science (M. Jarvis, A.B Wade, T. Wood)						Poster Session 5 Minerals Information & Supply Chain Analysis Mineral Resource Research and Information			Breakout-9 Future Directions in Geophysics			1:00
1:30	Plenary Session 1 Opening Remarks: S. Kimball; L. Meinert; and Panel Discussion MRP Science & Information: Who needs it and what do they want? (L. Meinert [M], S. Kimball, H. Thorleifson, J. Thompson, R. Deery)						Poster Session 3 Labs/Analytical Research & Development Data Inventory and Delivery			Breakout-5 Future Directions in Economic Geology			Breakout-10 Integrating Crowdsourcing, Citizen Science, and Civic Hacking to Enhance MRP Science			1:30			
2:00	Poster Session 1 Mineral Resource Assessment Midcontinent Rift System Remote Sensing - Geophysics			Breakout-1 Future Directions in Environmental and Exploration Geochemistry			Breakout-6 Future Directions in Mineral Resource Assessments			Plenary Session 6 75 Years of Experience: the past, present and future of USGS economic geology J. Slack & R. Goldfarb (moderated by L. Meinert)						2:00			
2:30				Breakout-2 Future Directions in Analytical and Isotope Geochemistry			Plenary Session 4 Open Innovation: Engaging Citizens to Enhance Science in the Networked World -- S. Liu									2:30			
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6:00	Welcome Reception Sheraton Herndon/Dulles															6:00			
6:30																			
7:00																			
7:30																			
8:00																			

MRP Science & Information Forum -- Poster Presentations

PI	Org	Theme*	Session	Provisional Poster Title
Hammarstrom, J.	EMERSC	MRA	1	Global Mineral Resource Assessment
Mars, J.	EMERSC	MRA	1	Integration of Remote-Sensing Alteration Mapping and Regional Geochemistry into New Geospatial-statistical, Quantitative Mineral Resource Methods
Mihalasky, M.	GMEGSC	MRA	1	Mineral Resource Assessments: The Past, Present and Future
Zurcher, L.	GMEGSC	MRA/MRR	1	Relation Between Porphyry Copper Sites, Crustal Preservation Levels, and Amount of Exploration in Magmatic Belts of the Central Tethys Region
Zientek, M.	GMEGSC	MRA/MRS/CM	1	Assessment of the Platinum-Group Element Resources in Mafic-Ultramafic Igneous Intrusions of the Midcontinent Rift System, Lake Superior Region
Drenth, B.	CGGSC	MRS	1	Mineral Resource Potential of the Midcontinent Rift (Task 1)
Manning, A.	CGGSC	MRS	1	Exploration geochemistry of covered mineral deposits in the northern Midcontinent
Woodruff, L.	EMERSC	MRS	1	Mineral Resource Potential of the Midcontinent Rift (Task 2)
Minsley, B.	CGGSC	RS-GP	1	Geophysical Methods Development
Finn, C.	CGGSC	RS-GP/CM	1	Advanced Geophysical Characterization of Layered Mafic and Ultramafic Intrusions
Hoefen, T.	CGGSC	RS-GP/CM	1	Spectroscopic Investigations of REE Minerals for Use with Imaging, Laboratory and Core Scanning Spectrometers
McCafferty, A.	CGGSC	RS-GP/CM	1	Airborne Geophysics for Rare Earth Element Deposits
Ponce, D.	GMEGSC	RS-GP/CM	1	Geophysical Investigations of the Mountain Pass Carbonatite Terrane, California
Shah, A.	CGGSC	RS-GP/CM	1	Geophysical and Geochemical Approaches to Evaluating REE Potential in the Southeastern U.S.
Bultman, M.	GMEGSC	RS-GP/MRA	1	Innovative use of geophysical data for assessing concealed mineral resources
Bedrosian, P.	CGGSC	RS-GP/MRS	1	Whither the Mid-Continent Rift? - Tectonic-Scale Structures in the Midwestern US from EarthScope Magnetotelluric Modeling
Haeussler, P.	ASC-MR	AK	2	Western Alaska Range Metallogeny and Tectonics
Jones, J.	ASC-MR	AK	2	Alaska/Yukon Geophysical/Geologic Reconciliation of the Pericratonic Yukon-Tanana Terrane
Todd, E.	ASC-MR	AK	2	Multiple source components of Western Alaska Range magmas during progressive accretion of the Wrangellia composite terrane and evolution of the southern Alaska margin
Wilson, F.	ASC-MR	AK	2	Alaska Geologic Map and Database
Taylor, C.	CMERSC	AK/CM	2	Bokan Mountain, REE Deposit, Alaska
Wilson, F.	ASC-MR	AK/DID	2	Alaska Resource Data File (ARDF)
Kokaly, R.	CGGSC	AK/RS-GP	2	Hyperspectral Remote Sensing Data and a Multi-Proxy Investigation for Characterizing Mineral Resources Deposits in Alaska
Smith, B.	CGGSC	AK/RS-GP	2	Alaska Geophysical Survey Interpretation
Box, S.	GMEGSC	CM	2	Yellow Pine antimony-gold deposits (central Idaho)
Foley, N.	EMERSC	CM	2	Unconventional Resources of Rare Elements: The Bearing of Source and Process on the Genesis of Residual Deposits
Kelley, K.	CMERSC	CM	2	Critical Metals in Black Shales
Rytuba, J.	GMEGSC	CM	2	Rare earth element unconventional resources in high sulfidation systems
Slack, J.	EMERSC	CM	2	Setting and Origin of Iron Oxide-Cu-Co-Au-REE Deposits of Southeast Missouri (1)
Slack, J.	EMERSC	CM	2	Setting and Origin of Iron Oxide-Cu-Co-Au-REE Deposits of Southeast Missouri (2)
Verplanck, P.	CMERSC	CM	2	Fluids in REE Ore Genesis
Hayes, T.	GMEGSC	CM/AK	2	Alaska Critical Minerals Cooperative
Anderson, E.	CGGSC	DID	3	National Geophysical Data Retrieval and Integration
Fernette, G.	CMERSC	DID	3	USMIN - The USGS Mineral Resource Database of the Future
Schweitzer, P.	EMERSC	DID	3	Mineral Resource Online Data Catalog
Smith, S.	CMERSC	DID	3	National Geochemical Database II
Swayze, G.	CGGSC	DID	3	USGS Digital Spectral Library
Ayuso, R.	EMERSC	Lab/R&D	3	Radiogenic and stable isotope methods
Azain, J.	CMERSC	Lab/R&D	3	Analytical Chemistry
Cosca, M.	CMERSC	Lab/R&D	3	Argon Geochronology
Foster, A.	GMEGSC	Lab/R&D	3	X-ray and Raman Spectroscopic Studies in Support of MRP Projects
Holm-Denoma, C.	CMERSC	Lab/R&D	3	Technique development for in situ U-Pb dating and Pb-Sr isotopic analysis using LA-SC-ICPMS
Johnson, C.	CGGSC	Lab/R&D	3	Isotope and Chemical Methods for Mineral and Geoenvironmental Assessments and Support of USGS Science Strategy
Koenig, A.	CMERSC	Lab/R&D	3	Rapid Assessment of Rare and Critical Metals in Ore Deposits
Lowers, H.	CMERSC	Lab/R&D	3	SEM Microprobe Laboratories
Verplanck, P.	CMERSC	Lab/R&D	3	Non-Traditional Stable Isotopes
Wilson, S.	CGGSC	Lab/R&D	3	Geologic Reference Materials
Wolf, R.	CGGSC	Lab/R&D	3	Geoanalytical Research Chemistry
Dunlap/Frost	GMEGSC	DAITM	4	Databases and Information Analysis (DIA)
Kress, T.	EMERSC	DAITM	4	EMERSC Computer and GIS Support
San Juan, C.	CMERSC	DAITM	4	CMERSC GIS and Information Management II
Shew, N.	ASC-MR	DAITM	4	ASC-MR Databases and Information Analysis
Balistreri, L.	GMEGSC	ME	4	Modeling the potential toxicity of multiple metals (Cd, Co, Cu, Ni, Pb, Zn) associated with mineralized deposits
Goldhaber, M.	CGGSC	ME	4	Regional Geologic Controls on Environmental and Human Health
Gray, F.	GMEGSC	ME	4	Environmental Assessment of Selected Watersheds in the Patagonia Mountains, SE Arizona
Long, K.	GMEGSC	ME	4	Role of Geology and Geochemistry in Assessing Potential Environmental Performance of Alternative Sources of Rare Earth Elements
Morrison, J.	CGGSC	ME	4	Processes controlling groundwater quality in uranium ISR mining
Piatak, N.	EMERSC	ME	4	Slag: Valuable Resource or Environmental Liability?
Plumlee, G.	CGGSC	ME	4	Metal and Mineral Commodities in the Built and Waste Stream Environments
Plumlee, G.	CGGSC	ME	4	Minerals and Health - Environmental Disaster Response
Smith, D.	CMERSC	ME	4	Soil Geochemical Landscapes of the Conterminous United States
Holloway, J.	CGGSC	ME/CM	4	Mercury and Arsenic Mobility from the Cinnabar Mine Site, Yellow Pine Mining District, Idaho
Seal, R.	EMERSC	ME/MRS	4	Environmental Geochemistry to Evaluate Risks Associated with Past and Future Mining in the Lake Superior Region
Liu, S.	EMEH	O/C	4	Adaptation of the Crisis Crowdsourcing Framework: Strategically Designing an Integrated Crowdsourcing System for the Mineral Resources Domain.
Baker, M.	NMIC	MI/SCA	5	Global Facilities Database
Bermudez-Lugo, O.	NMIC	MI/SCA	5	Ebola Virus Outbreak and the Mineral Industries of Guinea, Liberia, and Sierra Leone
Gambogi, J.	NMIC	MI/SCA	5	DLA-Defense National Stockpile Support
Sangine, E.	NMIC	MI/SCA	5	Conflict Minerals, Dodd Frank, and 3T+G (tin, tantalum, tungsten & gold)
Wacaster, S.	NMIC	MI/SCA	5	Mining, Mineral Processing, and Extraction Industries of Cuba - Historical Perspective and Current Status
Xun, Sean	NMIC	MI/SCA	5	Methodology for Determining Critical and Strategic Material Criticality
Emsbo, P.	CMERSC	MRR	5	Paired $\delta^{88}\text{Sr}$ - $\delta^{76}\text{Sr}$ systematics- a new frontier in ore genesis and assessment: evaluation and application in the US midcontinent
John, D.	GMEGSC	MRR	5	Geology and hydrothermal systems of Miocene ancestral Cascade arc magmatism, Bodie Hills, California and Nevada
Lund, K.	CMERSC	MRR	5	Basement domain map of the conterminous United States and Alaska
Mercer, C.	CMERSC	MRR	5	Magmas to Metals: Melt Inclusion Insights into the Formation of Critical Element-Bearing Ore Deposits
Scheiderich, K.	CMERSC	MRR	5	Applications of metal stable isotopes to minerals research
Scott, C.	EMERSC	MRR	5	The Biogeochemistry of Sediment Hosted Ore Deposits
Stillings, L.	GMEGSC	MRR	5	Chemistry and mineralogy of the high elevation playa lake sediments at Dasht-e-Nawar, Afghanistan
Taylor, R.	CMERSC	MRR	5	California gold deposits; Grass Valley or regional geotectonic overview
Vikre, P.	GMEGSC	MRR	5	Magmatic-tectonic history and component sources of major precious metal deposits in the southern Walker Lane
Wilson, A.	CMERSC	MRR	5	Nonmetallic Resources of the U.S., with a Focus on Frac Sand Resources

***Themes**

AK	Geologic and Mineral Resource Studies in Alaska
CM	Characterization and Identification of Critical Mineral Resources
DAITM	Data Analysis & IT Management
DID	Data Inventory and Delivery
Lab/R&D	Labs/Analytical Research & Development and Support
ME	Mineral Resources and the Environment
MI/SCA	Minerals Information and Supply Chain Analysis
MRA	Assessment of Undiscovered Resources
MRR	Mineral Resource Research and Information
MRS	Characterization of the Midcontinent Rift and Related Mineral Resources
RS-GP	Geophysics and Remote Sensing: State-of-the-art tools for understanding mineral resource potential