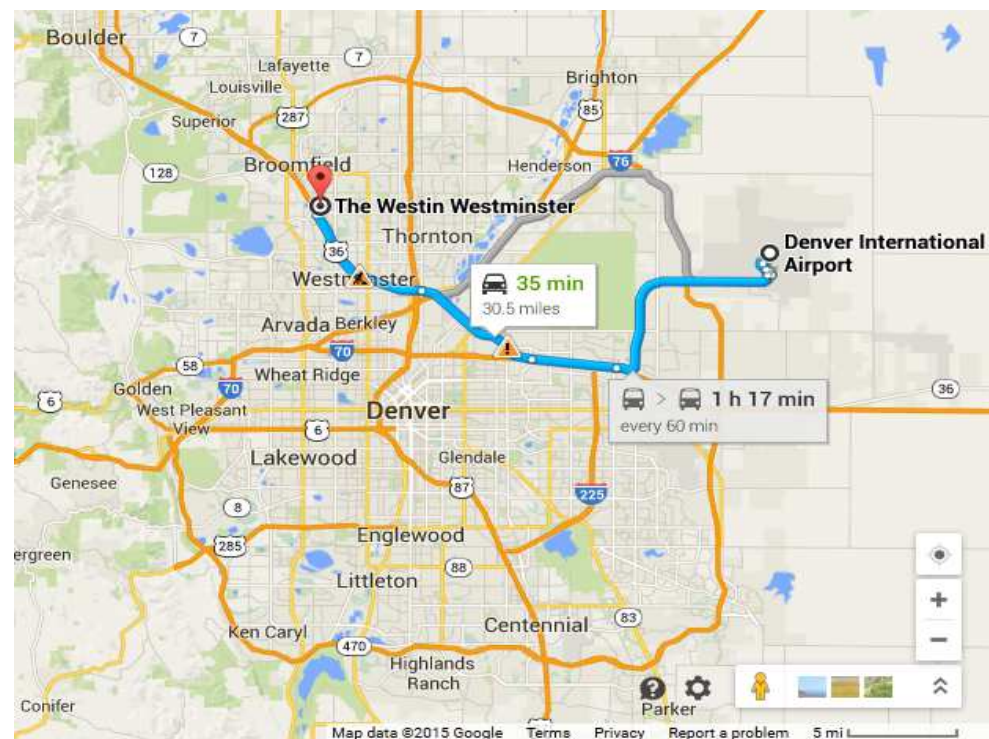


	Monday, May 11, 2015				Tuesday, May 12, 2015				Wednesday, May 13, 2015				Thursday, May 14, 2015			
	Standley I	Westminster II	Westminster I	Standley II	Standley I	Westminster II	Westminster I	Standley II	Standley I	Westminster II	Westminster I	Standley II	Standley I	Westminster II	Westminster I	Standley II
8:00a - 9:00a	Plenary Wendy Harrison, Colorado School of Mines GEOTHERMAL ENERGY: Global Reach, Local Impact room: Westminster III & IV				Mike Pacheco, NREL Geothermal's Role in an "All of the Above" Energy Strategy room: Westminster III & IV				Lauren Boyd, DOE Frontier Observatory of Research and Geothermal Energy (FORGE) room: Westminster III & IV				Marianne Walck, Sandia National Laboratory Subsurface Engineering R&D Crosscut (SubTER): adaptive control of fractures and fluid flow room: Westminster III & IV			
9:00a - 9:30a	<u>Systems Analysis</u> Systems Analysis, Resources Assessment, Data System Development & Population, Education	<u>Hydrothermal</u> Reservoir Fracture Characterization & Fluid Imaging	<u>Enhanced Geothermal Systems</u> Tracers / Zonal Isolation / Geochemistry	<u>Enhanced Geothermal Systems</u> Innovative Stimulation Techniques	<u>Low Temp</u> Hybrid/Value Added Systems	<u>Hydrothermal</u> Exploration Validation / Play Fairway Analysis	<u>cont'd</u> <u>Enhanced Geothermal Systems</u> High Temp Tools, Drilling Systems	<u>cont'd</u> <u>Enhanced Geothermal Systems</u> Enhanced Geothermal System Demonstrations	<u>Low Temp</u> Mineral Recovery	<u>Hydrothermal</u> Systems Analysis, Resources Assessment, Data System Development & Population, Education	<u>cont'd</u> <u>Enhanced Geothermal Systems</u> Reservoir Modeling	No Meetings Scheduled	No Meetings Scheduled	<u>Hydrothermal</u> Geochemistry	<u>Enhanced Geothermal Systems</u> Reservoir Fracture Characterization & Fluid Imaging	No Meetings Scheduled
9:30a - 10:00a																
10:00a - 10:30a																
10:30a - 11:00a																
11:00a - 11:30a																
11:30a - 12:00a																
12:00p - 12:40p			<u>Enhanced Geothermal Systems</u>													
12:40p - 2:00p	Lunch - Tim Reinhardt, DOE Vision Study room Westminster III & IV				Lunch - Holly Thomas, DOE Play Fairway RFI Session room Westminster III & IV				Lunch - Erick Burns, USGS New Tools for Understanding Heat and Groundwater Flow in the Northwest Volcanic Aquifer Province, USA room Westminster III & IV				Lunch - Jay Nathwani, DOE FY16 Lab AOP Session room Westminster III & IV			
2:00p - :230p			<u>Enhanced Geothermal Systems</u> High Temp Tools, Drilling Systems	Supercritical Carbon Dioxide/ Working Fluids	<u>Low Temp</u> Mineral Recovery				<u>Low Temp</u> Low Temperature Resources		<u>Enhanced Geothermal Systems</u> Reservoir Fracture Characterization & Fluid Imaging	No Meetings Scheduled	No Meetings Scheduled		<u>Code Comparison Workshop</u>	No Meetings Scheduled
2:30p - 3:00p																
3:00p - 3:30p																
3:30p - 4:00p																
4:00p - 4:30p																
4:30p - 5:00p																
5:00p - 5:40p			<u>EGS</u> Enhanced Geothermal System Demonstrations				<u>EGS</u> Reservoir Modeling	<u>Geothermal Develop. in African Nations</u>		<u>DOE Resource Reporting Methodology Effort - Update/Discussion</u>				<u>Geochemistry/ Tracers Workshop</u>		
	5:10p - 7:00p				Poster Session	<u>Play Fairway Focus Discussion with PFA Award Recipients</u>	Poster Session									



Panel	Project	Principal Investigator
<u>Systems Analysis</u> Systems Analysis, Resources Assessment, Data System Development & Population, Education	Analysis of Geothermal Exploration Decision Making	Kate Young, NREL
	Exploration Case Studies	Kate Young, NREL
	Vision Study	Chad Augustine, NREL
	Water Resource and Water Quality Assessment of Geothermal Systems	Corrie Clark, ANL
<u>Low Temp</u> Hybrid/Value Added Systems	Geothermal-Gas Turbine Hybrid Generator (GGT-Hybrid)	Danylo Oryshchyn, NETL
	Two Step Solution Looping Process for Low-Temperature Geothermal Resources Utilization in Commercial Buildings	Kyle Gluesenkamp, ORNL
	Value of Information Evaluation	Whitney J. Trainor-Guitton, LLNL
<u>Low Temp</u> Co-Production Demonstration	Low-Temperature Stirling Engine for Geothermal Electricity Generation	Samuel Weaver, Cool Energy, Inc.
<u>Hydrothermal</u> Reservoir Fracture Characterization & Fluid Imaging	SURGE: Tech Transfer at Edgar Mine	Chad Augustine, NREL & Doug Blankenship, SNL
	Akutan Geothermal Project	Nicholas Hinz, University of Nevada, Reno
	Integrating Magnetotellurics, Soil Gas Geochemistry and Structural Analysis to Identify Hidden, High-Enthalpy, Extensional Geothermal Systems	Dr. Philip Wannamaker, University of Utah
	UNR - Great Basin Center for Geothermal Energy (I\IV)	Wendy Calvin, University of Nevada, Reno
<u>Hydrothermal</u> High Temp Tools, Drilling Systems	High Power Laser Tool and System for Unique Geothermal Well Completions	Joel Moxley, Foro Energy Inc.
	A Wireline-Deployed Tool for Monitoring Fluid Flow within an EGS Borehole	Peter Rose,FluidTracer, Inc.
	Geothermal Well Inspection Camera	Randy Normann, Perma Works LLC (PI - David Glowka)
<u>Hydrothermal</u> Tracers / Zonal Isolation / Geochemistry	New Exploration Methods Applied to Previously Studied “Known Geothermal Resource Areas” in Southern Idaho and Eastern Oregon	Patrick Dobson, LBNL & Rob Podgorney, INL
	Improved Geothermometry Through Multivariate Reaction Path Modeling and Evaluation of Geomicrobiological Influences on Geochemical Temperature Indicators	Earl Mattson, INL
<u>Hydrothermal</u> SubTER	SubTER: Photo-Simulated Luminescence Spectroscopy Stress Sensor for In Situ Stress Measurement	Yarom Polsky, ORNL
	SubTER: Intermediate-scale hydraulic Fracturing Experiment in a Deep Mine for the Investigation of Induced Seismicity and Fracture Flow	Curtis Oldenburg, LBNL
	SubTER: Wellbore Integrity: Development of a Novel 3D Acoustic Borehole Integrity Monitoring System	Cristian Pantea, LANL
	SubTER: Ultrasonic Phased Arrays and Interactive Reflectivity Tomography for Nondestructive Inspection of Injection and Production Wells in Geothermal Energy Systems	Hector Santos-Villalobos, ORNL

Notes

2015 PROJECT PEER REVIEW		GEO THERMAL TECHNOLOGIES OFFICE				Monday May 11		The Westin Westminster 303-410-5000 10600 Westminster Blvd, Westminster CO 80020		print date 05/06/2015	
Track 1-Systems Analysis & LowTemp - Room Standley I		Track 2 Hydrothermal - Room Westminster II				Track 3 EGS1 - Room Westminster I		Track 4 EGS2 - Room Standley II			
Time	Panel	Presenter(s), Awardee (or Organization), Project Title	Time	Panel	Presenter(s), Awardee (or Organization), Project Title	Time	Panel	Presenter(s), Awardee (or Organization), Project Title	Time	Panel	Presenter(s), Awardee (or Organization), Project Title
8:00a-9:00a 60 min		Wendy Harrison, Colorado School of Mines Plenary - GEOTHERMAL ENERGY: Global Reach, Local Impact room: Westminster III & IV	8:00a-9:00a 60 min		Wendy Harrison, Colorado School of Mines Plenary - GEOTHERMAL ENERGY: Global Reach, Local Impact room: Westminster III & IV	8:00a-9:00a 60 min		Wendy Harrison, Colorado School of Mines Plenary - GEOTHERMAL ENERGY: Global Reach, Local Impact room: Westminster III & IV	8:00a-9:00a 60 min		Wendy Harrison, Colorado School of Mines Plenary - GEOTHERMAL ENERGY: Global Reach, Local Impact room: Westminster III & IV
9:00a-9:30a 30 min	Systems Analysis: Resources Assessment, Data System Development & Population, Education	Tom Lowry, SNL GT-Mod	9:00a-9:30a 30 min	Hydrothermal: Reservoir Fracture Characterization & Fluid Imaging	Rob Mellors, LLNL Stochastic Joint Inversion for Integrated Data Interpretation in Geothermal Exploration	9:00a-9:30a 30 min	Enhanced Geothermal Systems: Tracers / Zonal Isolation / Geochemistry	Lyle Burns, Clean Tech Innovations, LLC SPI Conformance Gel Applications in Geothermal Zonal Isolation	9:00a-9:30a 30 min	Enhanced Geothermal Systems: Innovative Stimulation Techniques	Carlos Fernandez, PNNL Reservoir Stimulation Optimization with Operational Monitoring for Creation of EGS
9:30a-10:00a 30 min		Greg Mines, INL GETEM	9:30a-10:00a 30 min		Dr. Andre Revil, Colorado School of Mines Time-lapse joint inversion of GEOphysical Data and its application to gEothermal prospecting - GEODE	9:30a-10:00a 30 min		Jefferson Tester, Cornell University A Reactive Tracer Method for Predicting EGS Reservoir Geometry and Thermal Lifetime: Development and Field Validation	9:30a-10:00a 30 min		Mark Grubelich, SNL Gas Generator Development and Testing for Controlled Rapid Pressurization Using Liquid Propellants for EGS Well Stimulation
10:00a-10:30a 30 min		Thomas Edmunds, LLNL The Value of Geothermal Power for Integration of Intermittent Generation	10:00a-10:30a 30 min		Rob Mellors, LLNL Identifying High Potential Well Targets with 3D Seismic, and Mineralogy	10:00a-10:30a 30 min		John Christensen, LBNL Radioisotope Tracers and Fracture Attributes for Enhanced Geothermal Systems	10:00a-10:30a 30 min		Charles Carrigan, LLNL Validation of EGS Feasibility and Explosive Fracturing Techniques
10:30a-10:40a 10 min		Audience Q&A	10:30a-10:40a 10 min		Audience Q&A	10:30a-10:40a 10 min		Audience Q&A	10:30a-10:40a 10 min		Audience Q&A
10:40a-11:00a 20 min		Break	10:40a-11:00a 20 min		Break	10:40a-11:00a 20 min		Break	10:40a-11:00a 20 min		Break
11:00a-11:30a 30 min		Jordan Macknick, NREL Projected Deployment of Geothermal Technologies Subject to Water Availability Constraints	11:00a-11:30a 30 min		Chad Augustine, NREL SURGE: Sedimentary Geothermal Feasibility Study	11:00a-11:30a 30 min		Richard A. Kemp, SNL Tagged Nanoparticles for Fluid Flow Monitoring	11:00a-11:30a 30 min		Wrap Up: Innovative Stimulation Techniques Session
11:30a-12:00p 30 min		Kate Young, NREL Regulatory Roadmap	11:30a-12:00p 30 min		Lianjie Huang, LANL Imaging Fault Zones Using a Novel Elastic Reverse-Time Migration Imaging Technique	11:30a-12:00p 30 min		Toshi Sugama, BNL Temporary Sealer Materials	11:30a-12:00p 30 min	Enhanced Geothermal Systems: Supercritical Carbon Dioxide/Working Fluids	Curt Oldenburg, LBNL Push-pull well testing using CO2 with active source geophysical monitoring
12:00p-12:30p 30 min		Dan Getman, NREL Geothermal Prospector	12:00p-12:30p 30 min		Chad Augustine, NREL SURGE: Completing Horizontal Geothermal Wells	12:00p-12:30p 30 min		Kevin Knauss, LBNL Fluid Chemistry and Fracture Growth: What's the Connection?	12:00p-12:30p 30 min		Tom Buscheck , LLNL Active Management of Integrated Geothermal CO2 Storage Reservoirs in Sedimentary Formations
12:30p-12:40p 10 min		Audience Q&A	12:30p-12:40p 10 min		Audience Q&A	12:30p-12:40p 10 min		Audience Q&A	12:30p-12:40p 10 min		Audience Q&A
12:40p-2:00p 80 min		Lunch - Tim Reinhardt, DOE Vision Study room: Westminster III & IV	12:40p-2:00p 80 min		Lunch - Tim Reinhardt, DOE Vision Study room: Westminster III & IV	12:40p-2:00p 80 min		Lunch - Tim Reinhardt, DOE Vision Study room: Westminster III & IV	12:40p-2:00p 80 min		Lunch - Tim Reinhardt, DOE Vision Study room: Westminster III & IV
2:00p-2:30p 30 min		Chad Augustine, NREL Geothermal Resource Potential and Supply Curve Improvement	2:00p-2:30p 30 min	Hydrothermal: Exploration Validation / Play Fairway Analysis	Wrap up: Reservoir Fracture Characterization & Fluid Imaging	2:00p-2:30p 30 min	Enhanced Geothermal Systems: High Temp Tools, Drilling Systems	Wrap Up: Tracers / Zonal Isolation / Geochemistry Session	2:00p-2:30p 30 min		Barry Freifeld, LBNL Geothermal Energy Production Coupled with CCS: Heat Recovery Using an Innovative High Efficiency Supercritical CO2 Turboexpansion Cycle
2:30p-3:00p 30 min		Chad Augustine, NREL Strategic Analysis	2:30p-3:00p 30 min		James Faulds, Nevada Bureau of Mines and Geology, University of Nevada-Reno Discovering Blind Geothermal Systems in the Great Basin Region: An Integrated Geologic and Geophysical Approach for Establishing Geothermal Play Fairways	2:30p-3:00p 30 min		Kamalesh Chatterjee, Baker Hughes Oilfield Operations Incorporated Recovery Act: High Temperature 300C Directional Drilling System, including drill bit, steerable motor, and drilling fluid, for Enhanced Geothermal Systems	2:30p-2:40p 10 min		Audience Q&A
3:00p-3:30p 30 min		Colin Williams, U.S. Geological Survey National Geothermal Resource Assessment and Classification	3:00p-3:30p 30 min		Nicole Lautze, University of Hawaii Comprehensive analysis of Hawaii's geothermal potential through Play Fairway integration of geophysical, geochemical, and geological data	3:00p-3:30p 30 min		Kamalesh Chatterjee, Baker Hughes Oilfield Operations Incorporated Directional Measurement-While-Drilling System for Geothermal Applications	2:40p-3:10p 30 min		Wrap Up: Supercritical Carbon Dioxide / Working Fluids Session
3:30p-3:40p 10 min		Audience Q&A	3:30p-3:40p 10 min		Audience Q&A	3:30p-3:40p 10 min		Audience Q&A	3:10p-3:40p 30 min	Enhanced Geothermal Systems: Enhanced Geothermal System Demonstrations	
3:40p-4:00p 20 min		Break	3:40p-4:00p 20 min		Break	3:40p-4:00p 20 min		Break	3:40p-4:00p 20 min		Break
4:00p-4:30p 30 min		Wrap up: Systems Analysis Session	4:00p-4:30p 30 min		Richard Stephen Middleton, LANL Hydrogeologic windows: Regional Signature Detection for Blind and Traditional Geothermal Play Fairways	4:00p-4:30p 30 min		David Raymond, SNL High Temperature Downhole Motor	4:00p-4:30p 30 min		Joseph Moore, University of Utah Concept Testing and Development at the Raft River Geothermal Field, Idaho
4:30p-5:00p 30 min			4:30p-5:00p 30 min		Lisa Shevenell, Atlas Geosciences Inc. Geothermal Potential of the Cascade and Aleutian Arcs, with Ranking of Individual Volcanic Centers for their Potential to Host Electricity-Grade Reservoirs	4:30p-4:40p 10 min		Audience Q&A	4:30p-5:00p 30 min		Mitch Plummer, INL EGS Reservoir Stimulations and Long-Term Performance Modeling
5:00p-5:30p 30 min			5:00p-5:10p 10 min		Audience Q&A	5:00p-5:10p 10 min			5:00p-5:30p 30 min		Lianjie Huang, LANL Joint Active and Passive Seismic Imaging of EGS Reservoirs
5:30p-5:40p 10 min			5:10p-5:40p 30 min			5:10p-5:40p 30 min			5:30p-5:40p 10 min		Audience Q&A

<div>2015PROJECT PEER REVIEW</div> <div>U.S. DEPARTMENT OF ENERGY GEOTHERMAL TECHNOLOGIES OFFICE</div>		GEOTHERMAL TECHNOLOGIES OFFICE			Tuesday May 12			The Westin Westminster 303-410-5000 10600 Westminster Blvd, Westminster CO 80020		print date 05/06/2015	
<div><div></div>Track 1-Systems Analysis & LowTemp - Room Standley I</div>		<div><div></div>Track 2 Hydrothermal - Room Westminster II</div>			<div><div></div>Track 3 EGS1 - Room Westminster I</div>			<div><div></div>Track 4 EGS2 - Room Standley II</div>			
Time	Panel	Presenter(s), Awardee (or Organization), Project Title	Time	Panel	Presenter(s), Awardee (or Organization), Project Title	Time	Panel	Presenter(s), Awardee (or Organization), Project Title	Time	Panel	Presenter(s), Awardee (or Organization), Project Title
8:00a-9:00a 60 min		Mike Pacheco, NREL Geothermal's Role in an "All of the Above" Energy Strategy room: Westminster III & IV	8:00a-9:00a 60 min		Mike Pacheco, NREL Geothermal's Role in an "All of the Above" Energy Strategy room: Westminster III & IV	8:00a-9:00a 60 min		Mike Pacheco, NREL Geothermal's Role in an "All of the Above" Energy Strategy room: Westminster III & IV	8:00a-9:00a 60 min		Mike Pacheco, NREL Geothermal's Role in an "All of the Above" Energy Strategy room: Westminster III & IV
9:00a-9:30a 30 min	Low Temp: Hybrid/Value Added Systems	Craig Turchi, NREL Low-Enthalpy Geothermal Desalination	9:00a-9:30a 30 min	Hydrothermal: Exploration Validation / Play Fairway Analysis	John Shervais, Utah State University Play Fairway Analysis of the Snake River Plain	9:00a-9:30a 30 min	cont'd -- Enhanced Geothermal Systems: High Temp Tools, Drilling Systems	Randy Norman, Perma Works Well Monitoring Systems for EGS	9:00a-9:30a 30 min	cont'd -- Enhanced Geothermal Systems: Enhanced Geothermal System Demonstrations	Susan Petty, AltaRock Energy, Inc. Recovery Act: Newberry Volcano EGS Demonstration
9:30a-10:00a 30 min		David. J. Heldebrant, PNNL Geothermal Power Generation and CO2 Capture Co-Production	9:30a-10:00a 30 min		James McClain, University of California-Davis Geothermal Play Fairway Analysis of Potential Geothermal Resources in NE California, NW Nevada, and Southern Oregon	9:30a-10:00a 30 min		Grzegorz Cieslewski, SNL High Temperature Chemical Sensing Tool for Distributed Mapping of Fracture Flow in EGS	9:30a-10:00a 30 min		Eric Sonnenthal, LBNL Evaluation of Stimulation at Newberry Volcano EGS Demo Site Through Natural Isotopic Reactive Tracers and Geochemical Investigation
10:00a-10:30a 30 min		Pete McGrail, PNNL Integrating Compressed Air Energy Storage and Geothermal for Grid-Scale Renewables Integration	10:00a-10:30a 30 min		Corina Forson, Washington Division of Geology and Earth Resources Geothermal Play-Fairway Analysis of Washington State Prospects	10:00a-10:30a 30 min		Dr. Bjorn Paulsson, Paulsson, Inc. Development of a 300°C, 200 level, 3C Fiber Optic Downhole Seismic Receiver Array for Surveying and Monitoring of Geothermal Reservoirs	10:00a-10:30a 30 min		Peter Drakos, Ormat Nevada, Inc. Feasibility of EGS Development at Bradys Hot Springs, Nevada
10:30a-10:40a 10 min		Audience Q&A	10:30a-10:40a 10 min		Audience Q&A	10:30a-10:40a 10 min		Audience Q&A	10:30a-10:40a 10 min		Audience Q&A
10:40a-11:00a 20 min		Break	10:40a-11:00a 20 min		Break	10:40a-11:00a 20 min		Break	10:40a-11:00a 20 min		Break
11:00a-11:30a 30 min		Dan Wendt, INL & Craig Turchi, NREL Geothermal risk reduction via geothermal/solar hybrid power plants	11:00a-11:30a 30 min		Phil Wannamaker, University of Utah/EGI Structurally Controlled Geothermal Systems in the Central Cascadia Arc-BackArc Regime, Oregon	11:00a-11:30a 30 min		Grzegorz Cieslewski, SNL Enhanced High Temperature/High Speed Data Link for Logging Cables	11:00a-11:30a 30 min		Sharad Kelkar, LANL Bradys and Desert Peak Numerical Modeling
11:30a-12:00p 30 min		Dan Wendt, INL Forward Osmosis Purification of Co-Produced Water	11:30a-12:00p 30 min		Teresa Jordan, Cornell University Low Temperature Geothermal Play Fairway Analysis for the Appalachian Basin	11:30a-12:00p 30 min		Toshi Sugama, BNL & Erica Redline, SNL Elastomeric Material Evaluation and Development	11:30a-12:00p 30 min		Nicholas Davatzes, Temple University Monitoring EGS Stimulation and Reservoir Dynamics with InSAR and MEQ
12:00p-12:30p 30 min		Pete McGrail, PNNL Development of New Biphasic Metal Organic Working Fluids for Geothermal Systems	12:00p-12:30p 30 min		Phil Wannamaker, University of Utah/EGI Structurally Controlled Geothermal Systems in the Eastern Great Basin Extensional Regime, Utah	12:00p-12:30p 30 min		Avery Cashion, SNL Evaluation of High Temperature Components for Use in Geothermal Tools	12:00p-12:30p 30 min		Kurt Feigl, University of Wisconsin-Madison Poroeleastic Tomography by Adjoint Inverse Modeling of Data from Seismology, Geodesy, and Hydrology
12:30p-12:40p 10 min		Audience Q&A	12:30p-12:40p 10 min		Audience Q&A	12:30p-12:40p 10 min		Audience Q&A	12:30p-12:40p 10 min		Audience Q&A
12:40p-2:00p 80 min		Lunch - Holly Thomas, DOE Play Fairway RFI Session room: Westminster III & IV	12:40p-2:00p 80 min		Lunch - Holly Thomas, DOE Play Fairway RFI Session room: Westminster III & IV	12:40p-2:00p 80 min		Lunch - Holly Thomas, DOE Play Fairway RFI Session room: Westminster III & IV	12:40p-2:00p 80 min		Lunch - Holly Thomas, DOE Play Fairway RFI Session room: Westminster III & IV
2:00p-2:30p 30 min	Low Temp: Mineral Recovery	Adrian Sabau, ORNL Freeform Heat Exchangers for Binary Geothermal Power Plants	2:00p-2:30p 30 min		Dr. Greg Nash (PI) & Carlson Bennett, Ruby Mountain Inc. The Convergence of Heat, Groundwater, & Fracture Permeability: Innovative Play Fairway Modelling Applied to the Tularosa Basin	2:00p-2:30p 30 min	Enhanced Geothermal Systems: Reservoir Modeling	Ernest L. Majer, LBNL Testing and Calibration of HT Wide-bandwidth Seismic Sensors for EGS Applications and Collaboration with IPGT Program	2:00p-2:30p 30 min		Mark Walters, Calpine - Geysers Power Company LLC Demonstration of an Enhanced Geothermal System at the Northwest Geysers Geothermal Field, California
2:30p-2:40p 10 min		Audience Q&A	2:30p-2:40p 10 min		Jerry Smith, Pagosa Verde LLC Recovery Act: Use Remote Sensing Data (selected visible and infrared spectrums) to locate high temp ground anomalies in Colorado.Confirm heat flow potential w/ on-site temp surveys to drill deep resource wells	2:30p-3:00p 30 min		Grzegorz Cieslewski, SNL Deployment of Integrated Wide Bandgap Sensor, HT Packaging, and Data Communication System	2:30p-3:00p 30 min		Jonny Rutqvist, LBNL Geysers Calpine Modeling
2:40p-3:10p 30 min		Wrap up: Hybrid/Value Added Systems Session	3:00p-3:30p 30 min		Patrick Walsh, ORMAT Nevada, Inc. Recovery Act: Merging high resolution geophysical and geochemical surveys to reduce exploration risk at Glass Buttes, Oregon	3:00p-3:10p 10 min		Audience Q&A	3:00p-3:30p 30 min		Sharad Kelkar, LANL Archive of Fenton Hill Data; Creation and Testing of Data Sets for Simulation and Testing
3:10p-3:40p 30 min		Jay Renew & Ryan Melsert, Southern Research Institute Geothermal Thermoelectric Generation (G-TEG) with Integrated Temperature Driven Membrane Distillation and Novel Manganese Oxide for Lithium Extraction	3:30p-3:40p 10 min		Audience Q&A	3:10p-3:40p 30 min		Wrap Up: High Temp Tools, Drilling Systems Session	3:30p-3:40p 10 min		Audience Q&A
3:40p-4:00p 20 min		Break	3:40p-4:00p 20 min		Break	3:40p-4:00p 20 min		Break	3:40p-4:00p 20 min		Break
4:00p-4:30p 30 min		Susanna Ventura, SRI International Selective Recovery of Metals From Geothermal Brines	4:00p-4:30p 30 min		Gregory Newman, LBNL Iceland Geophysics: Advanced 3D Geophysical Imaging Technologies for Geothermal Resource Characterization	4:00p-4:30p 30 min		Eric Sonnenthal, LBNL ARRA THMC Modeling	4:00p-4:30p 30 min		Wrap Up: Enhanced Geothermal System Demonstrations Session
4:30p-5:00p 30 min		Athanasios Karamalidis, Carnegie Mellon University Chelating Resins for Selective Separation and Recovery of Rare Earth Elements from Low Temperature Geothermal Water	4:30p-4:40p 10 min		Audience Q&A	4:30p-5:00p 30 min		Dr. Ahmad Ghassemi, The Board of Regents of the University of Oklahoma ① Recovery Act: Development of a Geomechanical Framework for the Analysis of MEQ in EGS Experiments (GEYSERS) ② Analysis of Geothermal Reservoir Stimulation using Geomechanics-Based Stochastic Analysis of Injection-Induced Seismicity ③ Three-dimensional Modeling of Fracture Clusters in Geothermal Reservoirs	4:30p-5:10p 30 min		Hosted By: Charlie Visser, NREL Geothermal Development in African Nations
5:00p-5:10p 10 min		Audience Q&A	4:40p-5:10p 30 min		Wrap up: Exploration Validation / Play Fairway Analysis Session	5:00p-5:10p 10 min		Audience Q&A			
5:10p-7:00p 1hr 50min	Poster Session Networking Event in Westminster Foyer		5:10p-5:40p 30 min	Eric Hass, DOE Play Fairway Focus Discussion with PFA Award Recipients		5:10p-7:00p 1hr 50min	Poster Session Networking Event in Westminster Foyer		5:10p-7:00p 1hr 50min	Poster Session Networking Event in Westminster Foyer	
			5:40p-7:00p 1hr 20min	Poster Session Networking Event in Westminster Foyer							

<div>2015PROJECT PEER REVIEW</div> <div>U.S. DEPARTMENT OF ENERGY GEOTHERMAL TECHNOLOGIES OFFICE</div>			<div>GEOTHERMAL TECHNOLOGIES OFFICE</div> <div>May 11-14 2015 Peer Review Agenda</div>			<div>Wednesday</div> <div>May 13</div>			<div>The Westin Westminster 303-410-5000</div> <div>10600 Westminster Blvd, Westminster CO 80020</div>					
									print date 05/06/2015					
<div>▲ Track 1-Systems Analysis & LowTemp - Room Standley I</div>			<div>▲ Track 2 Hydrothermal - Room Westminster II</div>			<div>▲ Track 3 EGS1 - Room Westminster I</div>			<div>▲ Track 4 EGS2 - Room Standley II</div>					
Time	Panel	Presenter(s), Awardee (or Organization), Project Title	Time	Panel	Presenter(s), Awardee (or Organization), Project Title	Time	Panel	Presenter(s), Awardee (or Organization), Project Title	Time	Panel	Presenter(s), Awardee (or Organization), Project Title			
8:00a-9:00a 60 min		Lauren Boyd, DOE Frontier Observatory of Research and Geothermal Energy (FORGE) room: Westminster III & IV	8:00a-9:00a 60 min		Lauren Boyd, DOE Frontier Observatory of Research and Geothermal Energy (FORGE) room: Westminster III & IV	8:00a-9:00a 60 min		Lauren Boyd, DOE Frontier Observatory of Research and Geothermal Energy (FORGE) room: Westminster III & IV	No Meetings Scheduled					
9:00a-9:30a 30 min	Low Temp: Mineral Recovery	Raymond Addleman, PNNL Recovery of Rare Earths, Precious Metals and Other Critical Materials from Geothermal Waters with Advanced Sorbent Structures	9:00a-9:30a 30 min	Hydrothermal: Systems Analysis, Resources Assessment, Data System Development & Population, Education	Patrick Dobson, LBNL & Kate Young, NREL Resource Reporting Methodology Analysis and Development of Geothermal Resource Reporting Metric for GTO’s Hydrothermal Program	9:00a-9:30a 30 min	cont’d -- Enhanced Geothermal Systems: Reservoir Modeling	Mark White, PNNL Support of the DOE GTO Model Comparison Activity						
9:30a-10:00a 30 min		Dean Stull, Tusaar Corp. Environmentally friendly economical sequestration of rare earth metals from geothermal waters	9:30a-10:00a 30 min		Greg Mines, INL Hydrothermal Reservoir Productivity	9:30a-10:00a 30 min		Dr. Derek Elsworth, Pennsylvania State University Recovery Act: THMC Modeling of EGS Reservoirs - Continuum through Discontinuum Representations: Capturing Reservoir Stimulation, Evolution and Induced Seismicity						
10:00a-10:30a 30 min		Caroline Ajo-Franklin, LBNL Engineering Thermophilic Microorganisms to Selectively Extract Strategic Metals from Low Temperature Geothermal Brines	10:00a-10:10a 10 min		Audience Q&A			10:00a-10:10a 10 min				Audience Q&A		
10:30a-10:40a 10 min		Audience Q&A			10:10a-10:40a 30 min	Wrap up: Systems Analysis, Resources Assessment, Data System Development & Population, Education Session		10:10a-10:40a 30 min				Wrap Up: Reservoir Modeling Session		
10:40a-11:00a 20 min		Break			10:40a-11:00a 20 min	Break		10:40a-11:00a 20 min				Break		
11:00a-11:30a 30 min		Pete McGrail, PNNL Magnetic Partitioning Nanofluid for Rare Earth Extraction from Geothermal Fluids	11:00a-11:30a 30 min	Hydrothermal: Drilling Systems	Dale Wolfer, Atlas Copco Secoroc LLC Advanced Percussive Drilling Technology for Geothermal Exploration and Development	11:00a-11:30a 30 min	Enhanced Geothermal Systems: Reservoir Fracture Characterization & Fluid Imaging	Tim Kneafsey, LBNL Sustainability of Shear-Induced Permeability for EGS Reservoirs						
11:30a-12:00p 30 min		Robert Zierenberg, University of California - Davis Maximizing REE Recovery in Geothermal Systems	11:30a-12:00p 30 min		Charlie Visser, NREL SURGE: Geothermal Drilling and Completions: Petroleum Practices Technology Transfer	11:30a-12:00p 30 min		Susan Carroll, LLNL Viability of Sustainable, Self-Propping Shear Zones in EGS: Measurement of Reaction Rates at Elevated Temperatures						
12:00p-12:10p 10 min		Audience Q&A			Toshi Sugama, BNL Multifunctional Corrosion -resistant Foamed Cement Composites	12:00p-12:10p 10 min		Audience Q&A						
12:10p-12:40p 30 min		Wrap up: Mineral Recovery Session			12:30p-12:40p 10 min	Audience Q&A		12:10p-12:40p 30 min						
12:40p-2:00p 80 min		Lunch - Erick Burns, USGS New Tools for Understanding Heat and Groundwater Flow in the Northwest Volcanic Aquifer Province, USA room: Westminster III & IV	12:40p-2:00p 80 min		Lunch - Erick Burns, USGS New Tools for Understanding Heat and Groundwater Flow in the Northwest Volcanic Aquifer Province, USA room: Westminster III & IV	12:40p-2:00p 80 min		Lunch - Erick Burns, USGS New Tools for Understanding Heat and Groundwater Flow in the Northwest Volcanic Aquifer Province, USA room: Westminster III & IV						
2:00p-2:30p 30 min	Low Temp: Low Temperature Resources	William D. Gosnold, University of North Dakota Recovery Act: Electric Power Generation from Low to Intermediate Temperature Resources	2:00p-2:30p 30 min	Hydrothermal: Drilling Systems	George Trabits, Trabits Group, LLC Recovery Act: Development Of An Improved Cement For Geothermal Wells	2:00p-2:30p 30 min	Enhanced Geothermal Systems: Reservoir Fracture Characterization & Fluid Imaging	Dr. Ahmad Ghassemi, The Board of Regents of the University of Oklahoma Laboratory-Scale Characterization of EGS Reservoirs						
2:30p-3:00p 30 min		Greg Mines, INL & Tom Williams, NREL Low Temperature Project Analysis	2:30p-3:00p 30 min		Douglas Blankenship, SNL Drilling Technologies Evaluation	2:30p-3:00p 30 min		Rick Allis, University of Utah Novel Geothermal Development of Deep Sedimentary systems in the US						
3:00p-3:10p 10 min		Audience Q&A			3:00p-3:10p 10 min	Audience Q&A		3:00p-3:30p 30 min				Dr. Derek Elsworth, The Pennsylvania State University Surface and Subsurface Geodesy Combined with Active Borehole Experimentation for the Advanced Characterization of EGS Reservoirs		
3:10p-3:40p 30 min		Wrap up: Low Temperature Resources Session			3:10p-3:40p 30 min	Wrap up: Drilling Systems Session		3:30p-3:40p 10 min				Audience Q&A		
3:40p-4:00p 20 min	Break		3:40p-4:00p 20 min	Break		3:40p-4:00p 20 min	Break							
4:00p-4:30p 30 min			4:00p-5:40p 100 min		NREL/LBNL DOE Resource Reporting Methodology Effort-Update/Discussion	4:00p-4:30p 30 min		Dr. Chris Marone, The Pennsylvania State University Leveraging a Fundamental Understanding of Fracture Flow, Dynamic Permeability Enhancement, and Induced Seismicity to Improve Geothermal Energy Production						
4:30p-5:00p 30 min						4:30p-5:00p 30 min		Dr. Matthew Becker, California State University Long Beach Phase I Project: Fiber Optic Distributed Acoustic Sensing for Periodic Hydraulic Tests						
5:00p-5:30p 30 min						5:00p-5:30p 30 min		Richard Hughes, LA State University Geothermal Resource Development with Zero Mass Withdrawal, Engineered Convection, and Wellbore Energy Conversion						
5:30p-5:40p 10 min						5:30p-5:40p 10 min		Audience Q&A						

<div>2015PROJECT PEER REVIEW</div> <div>U.S. DEPARTMENT OF ENERGY GEOTHERMAL TECHNOLOGIES OFFICE</div>		GEOTHERMAL TECHNOLOGIES OFFICE		Thursday May 14		The Westin Westminster 303-410-5000 10600 Westminster Blvd, Westminster CO 80020	
		May 11-14 2015 Peer Review Agenda				print date 05/06/2015	
<div><div>▲</div>Track 1-Systems Analysis & LowTemp - Room Standley I</div>		<div><div>▲</div>Track 2 Hydrothermal - Room Westminster II</div>		<div><div>▲</div>Track 3 EGS1 - Room Westminster I</div>		<div><div>▲</div>Track 4 EGS2 - Room Standley II</div>	
Time	Panel	Time	Panel	Time	Panel	Time	Panel
No Meetings Scheduled		<div>8:00a-9:00a 60 min</div>	Marianne Walck, Sandia National Laboratory Subsurface Engineering R&D Crosscut (SubTER): adaptive control of fractures and fluid flow room: Westminster III & IV	<div>8:00a-9:00a 60 min</div>	Marianne Walck, Sandia National Laboratory Subsurface Engineering R&D Crosscut (SubTER): adaptive control of fractures and fluid flow room: Westminster III & IV	No Meetings Scheduled	
		<div>9:00a-9:30a 30 min</div>	Mark Conrad, LBNL & Earl Mattson, INL Geothermometry Mapping of Deep Hydrothermal Reservoirs in Southeastern Idaho	<div>9:00a-9:30a 30 min</div>	Dr. Roland Gritto, Array Information Technology Seismic Analysis of Spatio-Temporal Fracture Generation During EGS Resource Development		
		<div>9:30a-10:00a 30 min</div>	Patrick Dobson, LBNL Use of He isotopes for geothermal resource identification in the Cascades and Snake River Plain	<div>9:30a-10:00a 30 min</div>	Ileana Tibuleac, Board of Regents, NSHE, obo University of Nevada, Reno Quantifying EGS Reservoir Complexity with an Integrated Geophysical Approach - Improved Resolution Ambient Seismic Noise Interferometry		
		<div>10:00a-10:30a 30 min</div>	Mack Kennedy, LBNL Surface estimates of deep permeability	<div>10:00a-10:30a 30 min</div>	Stephen Bauer, SNL Laboratory Evaluation of EGS Shear Stimulation		
		<div>10:30a-10:40a 10 min</div>	Audience Q&A	<div>10:30a-10:40a 10 min</div>	Audience Q&A		
		<div>10:40a-11:00a 20 min</div>	Break	<div>10:40a-11:00a 20 min</div>	Break		
		<div>11:00a-11:30a 30 min</div>	Nicholas Spycher, LBNL Surprise Valley Geochemistry	<div>11:00a-11:30a 30 min</div>	Philip Bingham, ORNL & Yarom Polsky, ORNL Application of Neutron Imaging and Scattering to Fluid Flow and Fracture in EGS Environments		
		<div>11:30a-12:00a 30 min</div>	Eric Sonnenthal, LBNL Integration of Nontraditional Isotopic Systems Into Reaction-Transport Models of EGS For Exploration, Evaluation of Water-Rock Interaction, and Impacts of Water Chemistry on Reservoir Sustainability	<div>11:30a-12:00a 30 min</div>	Kelly Rose, NETL Novel use of 4D Monitoring Techniques to Improve Reservoir Longevity and Productivity in Enhanced Geothermal Systems		
		<div>12:00p-12:10p 10 min</div>	Audience Q&A	<div>12:00p-12:10p 10 min</div>	Audience Q&A		
		<div>12:10p-12:40p 30 min</div>	Wrap up: Geochemistry Session	<div>12:10p-12:40p 30 min</div>	Wrap Up: Reservoir Fracture Characterization & Fluid Imaging Session		
		<div>12:40p-2:00p 80 min</div>	Lunch - Jay Nathwani, DOE FY16 Lab AOP Session room: Westminster III & IV	<div>12:40p-2:00p 80 min</div>	Lunch - Jay Nathwani, DOE FY16 Lab AOP Session room: Westminster III & IV		
				<div>2:00p-3:40p 100 min</div>	Lauren Boyd, DOE Code Comparison Workshop		
				<div>3:40p-4:00p 20 min</div>	Break		
				<div>4:00p-5:40p 100 min</div>	Lauren Boyd, DOE Geochemistry/Tracers Workshop		