



Great Basin Center for Geothermal Energy

presents

The Department of Energy's

workshop

"Dixie Valley Geothermal Research"

June 12 & 13, 2002

at

Desert Research Institute

Wednesday, June 12

7:15am-
8:00am

Registration/Continental Breakfast

8:00am-
8:15am

Introduction

*James Taranik, Great Basin Center for Geothermal Energy; and
Bob Creed, Department of Energy*

Geotectonics/Geologic Setting (Moderator: Joel Renner, INEEL)

8:15am-
8:40am

General Setting and History of Dixie Valley Geothermal Field

Stu Johnson, Caithness

8:40am-
9:05am

Basin and Range Structure of Dixie Valley, Nevada

David Blackwell, SMU, Publications

9:05am-
9:30am

Neotectonics

John Caskey, San Francisco University; and Steve Wesnousky, University of Nevada, Reno

9:30am-
9:55am

Structural Geology of Stillwater Range in Vicinity of Dixie Valley Geothermal Field

Gabe Plank, Techsoft America

9:55am-
10:15am

BREAK

10:15am-
10:40am

Structure and Thermal Characteristics of the Dixie Valley Geothermal Field

David Blackwell, SMU, Publications

10:40am-
11:05am

Detailed Aeromagnetic Studies

Tien Grauch, USGS

11:05am-
11:30am

Geologic Studies in Dixie Valley

Richard Smith, INEEL

11:30am-
12:30pm

LUNCH (provided)

Exploration Technology Applications (Moderator: Bob Creed, DOE)

12:30pm-
1:15pm

Repeat High-Precision Gravity and GPS at Dixie Valley Geothermal Field

Dave Chapman, University of Utah; and Paul Gettings, University of Utah

1:15pm-
1:40pm

Remote Sensing Studies

Greg Nash, University of Utah, EGI

1:40pm-
2:00pm [Deformation at Dixie Valley from InSAR Measurements](#)
Bill Foxall, Lawrence Livermore National Laboratory

2:00pm-
2:20pm **BREAK**

[Geochemical Studies](#) (Moderator: Lisa Shevenell, UNR)

2:20pm-
2:45pm [Dixie Valley Region Geochemistry](#)
Fraser Goff, Los Alamos

2:45pm-
3:10pm [Origin, Age, and Geochemical Evolution of Dixie Valley Geothermal Fluid](#)
Cathy Janik, USGS

3:10pm-
3:35pm [Geochemistry of Noble and Other Gases at Dixie Valley](#)
Mack Kennedy, LBNL ([Publications](#))

3:35pm-
3:55pm [Structure and Mineralization in the Northern Portion of Dixie Valley](#)
Jeff Hulen, University of Utah, EGI

3:55pm-
4:20pm [Alteration History and Evolution of Fluids in the Dixie Valley Geothermal System](#)
Sue Lutz, University of Utah, EGI

4:20pm-
4:45pm [Scale Formation and Fluid Chemistry at Dixie Valley](#)
Carol Bruton, Lawrence Livermore National Laboratory

Thursday, June 13

7:15am-
8:00am **Registration/Continental Breakfast**

[Reservoir Geology, Structure and Analysis](#) (Moderator: Ray Fortuna, DOE)

8:00am-
8:10am [Borehole Electrical Measurements at Dixie Valley](#)
Paul Kasameyer, Lawrence Livermore National Laboratory

8:10am-
8:35am [Recent Tracer Testing at Dixie Valley](#)
Pete Rose, University of Utah, EGI

8:35am-
9:00am [Thermal Modeling](#)
Colin Williams, USGS

9:00am-
9:20am **BREAK**

9:20am-
9:45am [Stress and Fracture Permeability at Dixie Valley](#)
Steve Hickman, USGS

9:45am-
10:10am [Applications of Natural Fracture and In-Situ Stress Analysis to Production in the Geothermal and Oil and Gas Industries](#)
Colleen Barton, Amy Day-Lewis and Judith Sheridan, GeoMechanics International

- 10:10am-10:35am **Structural Interpretation of the Dixie Valley Geothermal Field Derived from Re-Interpretation of Active Source Seismic**
Bill Honjas, Optim LLC; and Satish Pullammanappallil, Optim LLC
[Presentation Canceled]
- 10:35am-11:00am **[Perspectives on How Dixie Valley Relates to New Prospects in the Basin and Range](#) (word or pdf)**
Dick Benoit, Consultant
- 11:00am-12:00pm **General Discussion**
- 12:00pm-1:00pm **LUNCH (provided)**
- 1:00pm-3:00pm **Break-out Discussion Groups**
- 3:00pm-3:15pm **BREAK**
- 3:15pm- **Wrap-up, Summary**

Directions to Desert Research Institute

From Reno/Tahoe National Airport: Take 395 N to Dandini/Parr Blvd. Exit. Turn right on Dandini Blvd. After going through the roundabout, go to your immediate right, which is Raggio Pkwy. Turn left into parking lot in front of DRI.

WE REQUEST ALL CELL PHONES BE TURNED OFF DURING THE MEETING