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**NASA/SMUD Solar Science and Solar Energy Workshop**

**June 26, 27, 28, 2012**

**SMUD Energy and Technology Center, Sacramento**

***Day One***

**Tuesday, June 26, 2012**

8:30 am – 9:00 am ***Breakfast and Registration***, *Please complete* *Pre-Workshop Evaluation!*

9:00 am – 12:00 pm ***SMUD Welcome***, Suzette Bienvenue

 ***Energy Game****,* Ruth Paglierani

  ***NASA*** ***Project Welcome, Team Introductions,*** ***Teacher Introductions***

 ***Workshop Goals,*** Ruth Paglierani and Hal Aronson

 ***Overview of Key Concepts,*** Dr. Bryan Mendez

 ***Exploring Magnetism, Session One: Magnetism,*** Dr. Bryan Mendez

 ***Break***

 ***Exploring Magnetism, Session Two: Electromagnetism,*** Dr. Bryan Mendez

12:00 pm – 1:00 pm ***Lunch, February 9, 2013 Workshop Update,*** Ruth Paglierani

1:00 pm – 3:00 pm ***The*** ***Electromagnetic Spectrum Demonstration & Discussion***, Kyle Fricke

 ***World Energy Brief,*** Hal Aronson

 ***Comment cards***, *Please complete Post-Workshop Evaluation!*

 ***Closing comments,*** Ruth Paglierani

3:00 pm - 3:30 pm (optional) Depart SMUD, arrive at ISO, 250 Outcropping Way, Folsom

  ***Tour at ISO***

4:30 pm End of day and depart for home

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***Day Two***

**Wednesday, June 27, 2012**

8:30 am - 9:00 am ***Breakfast****, Please complete* *Pre-Workshop Evaluation for today!*

9:00 am – 12:00 pm ***Welcome*** *and* ***Review of Day One*** ***Comments***

 ***Teacher and Student Experiences***, Jessica McCready and Carol Galic

 ***The Real Reasons for Seasons,*** Kyle Fricke and Dr. Bryan Mendez

 ***Break***

 ***Exploring Solar Electricity: Mirrors, PV Effects,*** Hal Aronson

12:00 pm – 12:15 pm ***Get lunch for lunch-time talks***

12:15 pm - 1:00 pm ***Lunch*** *and* ***Addressing Standards in 6th Grade with Solar Cooking***, Suzette Bienvenue

1:00 pm – 3:00 pm ***Exploring Solar Electricity: Circuits, Powering Loads,*** Hal Aronson

 ***Break***

 ***Solar Sun Flower, Community Solar***, Brent Sloan

 ***Comment cards****, Please complete Post-Workshop Evaluation!*

 ***Closing comments,*** Ruth Paglierani

3:00 pm – 4:00 pm (optional) ***Solar Electricity Review*** with Hal Aronson

3:00 pm – 3:30 pm (optional) depart SMUD and arrive at American River Packaging Plant 4225, Pell Drive, Sacramento

 ***Tour of Digester Unit***

 4:30 pm End of day and depart for home

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***Day Three***

**Thursday, June 28, 2012**

8:30 am - 9:00 am ***Breakfast****, Please complete* *Pre-Workshop Evaluation for today!*

9:00 am – 12:00 pm ***Welcome*** and ***Review of Day Two Comments***

 *B****reak-out Sessions***

* + - * + ***Elementary Breakout: Eye on the Sky*,** Ruth Paglierani
				+ ***Middle/High School Breakout: Living with a Star,*** Kyle Fricke and Dr. Bryan Mendez

 ***Break***

 ***Passive Solar Home Design and Sun Angle Demonstration,*** Hal Aronson and Kyle Fricke

12:00 – 12:45 ***Lunch***

12:45 pm – 3:05 pm ***The Energy Future We Could Create***,Hal Aronson

 ***NASA’s Science of the Sun***, Dr. Bryan Mendez

 ***Closing Comments***, Ruth Paglierani

 ***Workshop*** ***Evaluation,*** Ardice Hartry

3:05 pm ***Distribute materials***

 Depart for safe travels home!

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***The Energy from the Sun Team:***

**Ruth Paglierani**, SSL, NASA/UC Berkeley

**Dr. Bryan Mendez**, SSL, NASA/UC Berkeley

**Kyle Fricke**, SSL, NASA/UC Berkeley

**Karen Meyer**, SSL, NASA/UC Berkeley

**Renee Frappier**, SSL, NASA/UC Berkeley

**Leitha Thrall**, SSL/UC Berkeley

**Ardice Hartry**, Lawrence Hall of Science, UC Berkeley

**Suzette Bienvenue**, Energy and Technology Center, SMUD

**Brent Sloan**, Community Solar, SMUD

**Dr. Hal Aronson**, WE CARE Solar, Berkeley

**Jessica McCready**, Orchard View School, Sebastopol

**Carol Galic**, Don Riggio School, Stockton

Please visit <http://cse.ssl.berkeley.edu/energy> for access to

curricular materials and other project information.

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