

Join us for a weekend of learning as ABDNHA brings leaders in the fields of water and energy to Borrego Springs.

For more detailed information and to register online: www.abdnha.org/desertliving or call 760-767-3098

Sponsored by the Anza-Borrego Desert Natural History Association - P O BOX 310, Borrego Springs, CA 92004



Desert Living Water & Energy

April 10-12, 2015

Disappearing Ground Water in the Western U.S.



**ABDNHA Desert Lecture Series Friday, APRIL 10
7:30 P.M. Borrego Performing Arts Center**
Seating is first-come, first-served for this lecture.

Jay Famiglietti - Senior Water Scientist NASA Jet Propulsion Laboratory, Hydrologist, Univ. Cal. Irvine Professor, Researcher

Jay Famiglietti is an internationally recognized authority on water resources, often the *go to* person when governments, industry, researchers, and the media need to know what the future holds in terms of water. As a senior scientist with NASA's GRACE project, Famiglietti will explain how satellite imaging is exposing the global nature of groundwater depletion and how that is being combined with ground-based research around the world, including the analysis of wells in the Coachella Valley. Sustainability options for a community like Borrego Springs, which depends entirely on groundwater, will also be discussed. ABDNHA Members No Charge; all others \$10 at the door.



**Geology of Aquifers Saturday, APRIL 11
10 - 11 a.m. ABDNHA Library**

Jay Famiglietti - Senior Water Scientist NASA Jet Propulsion Laboratory, Hydrologist, Univ. Cal. Irvine Professor, Researcher

An introduction into the geology of aquifers. What is their structure? How do they collect and hold water? How long does it take for an aquifer to be recharged? How deep are they? How do they differ one from the other? How long is water held underground before we extract it? What is aquifer subsidence? What determines the water quality in an aquifer? What are some of the factors that put aquifers at risk, such as drawdown or earthquakes? *See pricing below.*

Technology & Science: The Electrical Grid of the Future



**GRID of the Future Saturday, APRIL 11
12:30 - 2 p.m. ABDNHA Library**

Tom Bialek, Ph.D., P.E. Chief Engineer of Smart Grid and Renewables, Sempra Utilities

Just as the internet has revolutionized the way people communicate, technological changes in energy are transforming the way electricity is produced, distributed, and used. If you care about the future of energy, then this is the place to learn the technical side of things, how it all works, and the challenges of making it all work for millions of people, all in laymen's terms, from one of the top engineers on the cutting edge of the changes that lie ahead. Topics include power generation, transmission, power storage, smart grids, security, and renewable energy. *See pricing below.*

Harvesting Nature's Power: Geothermal Power at the Salton Sea



**Harvesting Nature's Power Saturday, APRIL 11
2:30 - 4 p.m. ABDNHA Library**

Vince Signorotti, Vice President: EnergySource LLC, Resource and Real Estate Assets

Hear the history of energy development in Imperial County and learn why geothermal plants are located on the shores of the Salton Sea. Learn what geothermal energy is and how it is converted into energy we can use. Experience a short "virtual tour" of a geothermal plant. Vince Signorotti has worked in the energy business for over 32 years, with the majority of time in the renewable energy sector, primarily geothermal energy development. *See pricing below.*

Tour: J.L. Featherstone Geothermal Plant at the Salton Sea



**Geothermal Plant Tour Sunday, APRIL 12
9 a.m. - 3 p.m. Starts at ABDNHA Library**

Tour Leader: Vince Signorotti, Vice President: EnergySource LLC

Tour the John L. Featherstone plant south of the Salton Sea, a three-stage flash geothermal plant that provides power for approximately 50,000 homes with no outside fuel required. It is the first new stand-alone geothermal plant in over 20 years in the Salton Sea area. On the tour we will see the fascinating process that converts natural heat into electrical energy. Requires long pants, closed-toed walking shoes, no tank tops. Meet at ABDNHA. Non-Members \$25, M \$15, V \$14.

Pricing: Individual Saturday Programs, Non-members \$25; M \$15; V \$14. All-day-Sat. pass, includes all 3 programs, NM \$70, M \$40, V \$35.