



THE DEEP CARBON OBSERVATORY: INVESTIGATING QUANTITIES, MOVEMENTS, FORMS AND ORIGINS OF CARBON IN EARTH

MONDAY

- A suite of sessions explores the full extent of global carbon cycle, including migration, outgassing from Earth and other planetary bodies, and natural carbon storage
8-10AM | V11D | Marriott Marquis Salon 10-12
10:20AM-12:20PM | V12A | Marriott Marquis Salon 10-12
1:20-6:00PM | V13A | Moscone South
- A new mechanism of diamond formation in the deep Earth by pH drop
Dimitri Sverjensky
9:45AM | Talk V11D-08 | Marriott Marquis Salon 10-12
- Movement of tectonic plates created Earth's unique atmosphere, according to deep Earth model
Sami Mikhail
1:40-6:00PM | Poster V13A-4751 | Moscone South
- Improved volcano monitoring refines estimates of volcanic contributions to atmospheric CO₂ levels
Philippe Robidoux
11:35AM | Talk V12A-06 | Marriott Marquis Salon 10-12
- Geochemical studies suggest 30 million-year-old fluids buried 2.5 kilometers underground host microbes of same age
Riikka Kietäväinen
1:40-6:00PM | Poster B13A-0163 | Moscone West
- Natural aquifer sequestered carbon dioxide for millions of years; research clarifies overlooked path of carbon flux in deep Earth
Kiran Sathaye
1:40-6:00PM | Poster V13A-4761 | Moscone South

TUESDAY

- Deep carbon cycling in ancient waters through abiotic chemistry and microbiology: Implications for astrobiology and Mars analogs
Barbara Sherwood Lollar
2:40PM | Talk B23G-05 | 2004 Moscone West
4:45PM | Talk P24A-04 | 2009 Moscone West
- Raise a glass with deep carbon scientists from around the world to celebrate DCO's halfway mark and release of DCO midterm scientific report
DCO Reception | 6:00-9:00PM
Restaurant LuLu, 816 Folsom Street
Hors d'oeuvres, beer, and wine provided

WEDNESDAY

- New data from ROSETTA satellite: origins of nitrogen and water on Earth
Bernard Marty
1:40-6:00M | Poster P33D-4044 | Moscone South
- Earthquakes at or near volcanoes caused by magma moving underground
Taryn Lopez
2:25PM | Talk V33E-04 | 308 Moscone South

THURSDAY

- New data from satellites OCO-2 and GOSAT: detecting volcanic CO₂ emissions from space
Florian Schwandner
8:00AM-12:20PM | A41H-3160 | Moscone South
- Improved volcano monitoring refines estimates of volcanic contributions to atmospheric CO₂ levels through DCO's DECADE (DEep CARbon DEgassing) initiative
DECADE Town Hall
12:30-1:30PM | TH43E | 2003 Moscone West

FRIDAY

- Experiments show geologically-produced methane more widespread than previously thought, with potential to support extensive deep biosphere
Giuseppe Etiope
1:40-6:00PM | Posters V53A-4821 & V53A-4823 | Moscone South