

# Deep Carbon Observatory Thematic Institute:

## *Carbon from the Mantle to the Surface*

Berkeley, CA • June 30 - July 3, 2015

### Poster Presentations

**July 1, 2015 • 6:00 – 7:00 PM • Theme: Carbon in the Mantle**

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**Arzilli, F. and Burton, M.:** *Metamorphic devolatilization of subducting slabs: implications for CO<sub>2</sub> recycling.*

**Castillo, Paterno R.:** *The recycling of marine carbonates and sources of HIMU and FOZO ocean island basalts.*

**Howell, D., F. Brenker, S. Kohn, G. Bulanova, C. Smith, A. Thomson, F. Nestola, P. Tack, J. Garrevoet, B. Vekemans, L. Vincze, M.J. Walter:** *Carbonate inclusions in super-deep diamonds: Tracking the deep carbon cycle.*

**Menzel, Manuel D.; Garrido, Carlos J.; Sanchez-Vizcaino, Vicente Lopez; Claudio Marchesi; Padron-Navarta, Jose Alberto; Fumagalli, Patrizia:** *The role of serpentinites in the deep carbon cycle – from sink to source*

**Piccoli F., Vitale Brovarone A., Beysac O., Martinez I., Chaduteau C.:** *Rock carbonation by fluid-rock interactions during HP metamorphism: implications for Carbon cycling in subduction zones.*

**Peuble, Steve:** *The fate of Carbon during the experimental serpentinization of peridotites.*

**Shirey, Steven B:** *Mantle Carbon Pathways from Diamonds and Their Inclusions*

**Sieber, M., G. Yaxley, J. Hermann:** *Experimental demonstration of carbonation of serpentinite by slab-derived C-O-H fluids - a possible new fore-arc reservoir for carbon.*

**Speelmanns, Iris M.; Carolin E. Höfer, Christian Liebske and Max W. Schmidt:** *Experimental determination of nitrogen and carbon isotope fractionation between metal- and silicate melts.*

**Tao, Renbiao:** *Oxygen fugacity and deep carbon cycle in the S. W. Tianshan subduction zone*

**Wirth, Richard:** *Nano-inclusions and microstructure in diamond : indicators for diamond genesis*

**Arellano, Santiago; Bo Galle and the NOVAC and DECADE collaborations:** *On the time-dependent distribution of volcanic plume degassing intensity and its relation to the global emission of volcanogenic carbon.*

**Beaudry, Patrick; Marc-Antoine Longpré, Rita Economos, Boswell Wing, Thi Hao Bui and John Stix:** *Sulfur isotope fractionation during degassing of Canary Island magmas*

**Carter, Laura B. and Dasgupta, Rajdeep:** *Basalt-Limestone and Andesite-Limestone Interaction in the Arc Crust—Implications for Volcanic Degassing of CO<sub>2</sub>*

**Hesse, Marc and Kiran Sathaye:** *Large CO<sub>2</sub> accumulations in cratonic continental crust*

**Lambart, Sarah; Heather Savage, Peter B. Kelemen:** *CRACK OR CLOG? Investigation of the reactive-cracking process and implications for the global carbon cycle.*

**Lucic, Gregor; John Stix, Boswell Wing:** *Structural controls on the emission of magmatic carbon dioxide gas, Long Valley caldera, USA*

**Malowany, Kalina:** *Spatial and temporal <sup>13</sup>C/<sup>12</sup>C trends on Turrialba volcano, Costa Rica*

**Malinverno, Alberto and Ernesto A. Martinez:** *The effect of temperature on organic carbon degradation in marine sediments*

**Mazza, Sarah E., & Esteban Gazel:** *Intraplate Volcanism and Deep Carbon Reservoirs in the Atlantic*

**Moore, Lowell R. ; Esteban Gazel, Rosario Esposito, Robert J. Bodnar:** *Micro Raman CO<sub>2</sub> densimetry and applications for melt inclusions*

**Vuilleumier, Rodolphe; Ari P. Seitsonen, Nicolas Sator and Bertrand Guillot:** *CO<sub>2</sub> speciation and transport properties of CO<sub>2</sub>-bearing silicate melts from First-Principle simulations.*

**Zhu, Jianjiang; Lifei Zhang, Yingwei Fei, Renbiao Tao:** *CO<sub>2</sub> released from carbonated eclogites during their exhumation.*