Monday, September 8, 2014
SHOCK PROCESSES RECORDED IN TERRESTRIAL AND PLANETARY SAMPLES II
1:30 p.m. Agoudal Room

Chairs: **Agata Krzesińska**
Joerg Fritz

1:30 p.m. Flynn G. J. * Durda D. D. Strait M. M. Patmore E. B. Jack S. J.
Recoil of Ordinary Chondrite Meteorite Targets in Hypervelocity Impact Cratering **[#5097]**
The momentum change by crater ejecta, important for altering the path of potentially hazardous asteroids deflected by kinetic impactors, in hypervelocity impacts of NWA 869 samples was found to exceed the momentum transferred by projectile capture.

1:45 p.m. Krzesińska A. * Gattacceca J. Friedrich J. M. Rochette P.
Petrofabric of Zag and Pułtusk Meteorites: Implications for Impact Conditions on the H Chondrite Parent Body **[#5221]**
Petrofabric of H chondrites is characterized by combining tomographic reconstruction of metal grains, anisotropy of magnetic susceptibility and petrographic observations. The chondrites possess foliation but also well defined lineation.

2:00 p.m. Jourdan F. * Benedix G. Eroglu E. Bland P. A. Bouvier A.
$^{40}Ar/^{39}Ar$ Impact Ages and Time-Temperature Argon Diffusion History of the Bunburra Rockhole Anomalous Basaltic Achondrite **[#5217]**
Petrographic observations, diffusion modelling and $^{40}Ar/^{39}Ar$ step-heating experiments on distinct fragments extracted from Bunburra Rockhole basalitic achondrite constraint the bombardment history recorded by this unique meteorite.

2:15 p.m. Simpson S. L. * Boyce A. J. Lee M. R. Lindgren P.
Stable Isotope Studies of Post Impact Hydrothermal Deposits Within the Sub-Crater Environment of the Rochechouart Structure **[#5061]**
Stable isotope studies of post-impact hydrothermal deposits within the shocked sub-crater environment of the Rochechouart impact structure in France: paleogeopgrahic influences and assessment of habitability.

2:30 p.m. Bezaeva N. S. * Badyukov D. D. Kozlov E. A. Feinberg J. M.
Magnetic Characterization of Spherically Shocked Samples of the Iron Meteorite Chinga **[#5112]**
We conducted spherical shock-recovery experiments on the Chinga ataxite (IVB, anomalous). Here we present full magnetic characterization of Chinga subsamples before and after explosive loading.

2:45 p.m. Beitz E. * Blum J. Parisi G.
Impact Induced Compaction of Chondrites and the Porosity Evolution of Chondritic Parent Bodies **[#5452]**
We will present our results on the consolidation of chondrite analog material in impact experiments and estimate the evolution of the parent body surface layers due to multiple impacts for different projectile sizes and collision velocities.

3:00 p.m. Kimura M. * Yamaguchi A. Miyahara M. Pittarello L.
Shock Vein in an Enstatite Chondrite, Asuka 10164 **[#5100]**
In the vein of an EH3 chondrite, we found coesite. This is the first discovery of a high-pressure phase in E chondrites. Our results suggest that all major chondrite groups contain high-pressure polymorphs.

3:15 p.m. BREAK