Tuesday, March 18, 2014
POSTER SESSION: STRUCTURE AND EVOLUTION OF SOLAR SYSTEMS
6:00 p.m.  Town Center Exhibit Area

Stark G.  Heays A. N.  Lyons J. R.  Smith P. L.  Eidelsberg M.  et al.  POSTER LOCATION #45
High-Resolution Oscillator Strength Measurements of the v'= 0,1 Bands of the B–X, C–X, and E–X Systems in Five Isotopologues of Carbon Monoxide [#1249]
Absorption measurements for several long-wavelength isotopic CO bands show very weak dependence on isotope, consistent with the CO self-shielding hypothesis.

Chakraborty S.  Yanchulova P.  Thiemens M. H.  POSTER LOCATION #46
Role of Symmetry in Mass-Independent Oxygen Isotopic Composition in Laboratory Synthesized Silicates [#2387]
Oxygen-isotope data from laboratory experiments and model results of silicate synthesis through gas phase reaction demonstrating slope 1 as that of CAIs.

Chakraborty S.  Jackson T. L.  Muskatel H. B.  Ahmed M.  Rude B.  et al.  POSTER LOCATION #47
Are Organic Macromolecules in Meteorites Formed Within the Solar System? [#2452]
New VUV photolysis data of N2 along with model simulation results are presented deciphering the high 15N values in organic phases in meteorites.

Kimery J. B.  Matthews L. S.  Hyde T. W.  POSTER LOCATION #48
Photophoretic Force on Fractal Aggregates in a Protoplanetary Disk [#2073]
Photophoresis can sort dust in a PPD by composition. The force acting on and drift velocity of fluffy aggregates is smaller than for spheres of the same mass.

Ali-Dib M.  Mousis O.  Petit J.-M.  Lunine J. I.  POSTER LOCATION #49
Carbon-Rich Planet Formation Below the Snowline in Protoplanetary Disks [#1089]
We explore the possibility of forming a giant planet with an atmospheric C/O ratio higher than that of its parent star.

Tóth Zs.  Nagy I.  POSTER LOCATION #50
Constraints on the Dynamical Stability of a Planet in the Habitable Zone of the Star Gliese 581 [#1489]
We investigate the dynamical stability of a planet in the HZ of Gliese 581. A low-mass planet could be stable in the HZ on circular or a near-circular orbit.

Varga T. N.  Szabó Gy. M.  Simon A.  POSTER LOCATION #51
Constraining the Orbital Alignment of KOI-1152.01: A Short Period Transiting Companion with High Obliquity and Eccentric Orbit [#2603]
We aim to reconstruct the sky-projected orbital obliquity of the transiting Kepler companion KOI-1152.01 by utilizing the spot activity of its host star.

Lorenzo A.  Desch S. J.  Shim S.-H.  POSTER LOCATION #52
On the Lower Radius Limit of Exoplanets [#1636]
We consider the maximum density of an chthonian (stripped core) exoplanet. Impurities (Si, S) reduce bulk density almost as much as having a silicate mantle.