

Tuesday, July 27, 2010
SOLAR SYSTEMS BEFORE AND DURING PLANET FORMATION
8:30 a.m. Ballroom

Chairs: Rachel Smith
Fred Ciesla

- 8:30 a.m. Smith R. L. * Pontoppidan K. M. Young E. D. Morris M. R.
[*New ¹²CO/¹³CO Observations in Young Stellar Objects and Molecular Clouds: Implications for ¹²C/¹³C in the Early Solar Nebula*](#) [#5381]
- 8:45 a.m. Lyons J. R. *
[*CO Self-Shielding Yields Oxygen with a \$\delta^{17}\text{O}/\delta^{18}\text{O}\$ Ratio of Unity*](#) [#5421]
- 9:00 a.m. Chakraborty S. * Davis R. Ahmed M. Jackson T. L. Thiemens M. H.
[*Oxygen Isotope Effect Dominated by VUV Photodissociation Dynamics of CO: Implications for Nebular CO Photolysis*](#) [#5148]
- 9:15 a.m. Liu M.-C. * Nittler L. R. Alexander C. M. O'D. Lee T.
[*Protosolar Irradiation in the Early Solar System: A Hibonite Perspective*](#) [#5108]
- 9:30 a.m. Roskosz M. * Gillot J. Capet F. Roussel P. Leroux H.
[*Temperature of Protoplanetary Disks Probed by Annealing Experiments Reflecting Spitzer Observations*](#) [#5145]
- 9:45 a.m. Tachibana S. *
[*Experimental Study of Sulfidation of Metallic Iron Under Protoplanetary Disk Conditions*](#) [#5314]
- 10:00 a.m. Abreu N. M. * Rietmeijer F. J. M. Nuth J. A. III
[*Experimental Study of the Mechanisms of Formation of Nanosulfides in Comet Wild 2*](#) [#5203]
- 10:15 a.m. Nagahara H. * Tachibana S. Chiba H. Ozawa K.
[*Reaction With Forsterite and SiO Gas and Mg/Si Fractionation in the Early Solar System*](#) [#5210]
- 10:30 a.m. Oehm B. * Lattard D. Burchard M. Chakraborty S. Langenhorst F.
[*Kinetics of Crystallization of Amorphous Forsterite Thin Films with Relevance to Thermal Annealing of Dust in Proto-Planetary Disks*](#) [#5414]
- 10:45 a.m. Kimura Y. * Nuth J. A.
[*Silicate Condensation Experiments in a Hydrogen Dominant Gas and Its Thermal History*](#) [#5168]
- 11:00 a.m. Ciesla F. J. *
[*Particle Residence Times in Solar Nebular Environments: Vertical Motions*](#) [#5040]
- 11:15 a.m. Apai D. * Pascucci I.
[*A Possible Nitrogen Barrier to Life Around Cool Stars*](#) [#5362]
- 11:30 a.m. Matthewman R. Court R. W. Martins Z. * Sephton M. A.
[*Volatile Release from Chondrites: Consequences for Early Planetary Atmospheres*](#) [#5200]
- 11:45 a.m. Fegley B. Jr. * Schaefer L.
[*Atmospheric Chemistry of Hot Earth-like Exoplanets. I. The Major Volatile Elements H, C, N, O and S*](#) [#5128]