CHONDrites AND THEIR COMPONENTS

Alexander C. M. O'D.  
*The Vital Roles of Water and Organics in the Early Solar System* [#2744]
The important roles water and organics played at every period in the evolution of the early solar system is explored.

Martínez-Jiménez M.  Trigo-Rodríguez J. M.  Alonso-Azcárate J.  
*Differences Within Carbonaceous Chondrite Groups from a Comparative ICP-MS Bulk Chemistry* [#1122]
The bulk composition of 50 carbonaceous chondrites from falls and finds has been analyzed by ICP-AES and ICP-MS, and some preliminary results are presented.

Metzler K.  Pack A.  
*Chemical Composition of Cluster Chondrite Clasts in LL Chondrites* [#2163]
Cluster chondrites in UOCs are characterized by close-fit textures of deformed, chemically normal UOC chondrules that accreted and deformed in a hot state.

Moggi Cecchi V.  Pratesi G.  Caporali S.  Zoppi M.  
*Impact Shocked Phases in NWA 8711, a New L6 Melt Breccia* [#1558]
The textural and compositional features of NWA 8711, a new L6 melt breccia containing the high-pressure phases ringwoodite and majorite, are presented.

Moyano-Cambero C. E.  Trigo-Rodríguez J. M.  
*Comparative Study of CK Carbonaceous Chondrites and Asteroids Reflectance Spectra Between 0.3 and 2.6 μm* [#1106]
We compare meteorite reflectances of CK chondrites in the ultraviolet to near-infrared range (0.3 to 2.6 μm) with the spectra of several asteroid classes.

*The Degree of Shock Metamorphism in Villalbeto de la Peña Polymict Chondrite Breccia Inferred from Raman Spectroscopy* [#1477]
We report ringwoodite and majorite in a shock vein of Villalbeto de la Peña studied by Raman. This indicates a shock degree of S6 in some areas.

Parthasarathy G.  Chandra U.  
*Spectroscopic and High Pressure Investigation on Antigorite from the Ararki (L5) Chondrite: Implications for Determination of the Peak Metamorphic Pressure* [#1114]
High-pressure studies on antigorite, from an L5 chondrite with an implication to pressure-induced dehydration and methane generation on the martian surface.

Shornikov S. I.  Yakovlev O. I.  
*High-Temperature Thermodynamic Properties of CAI Minerals* [#1270]
On the base of the data obtained by the mass spectrometric Knudsen effusion method, we presented the high-temperature thermodynamic properties of CAI minerals.

Ultra high resolution TEM of Murchison and Cold Bokkeveld CM2 chondrites is presented. Murchison is heterogeneous at the nanoscale so wet accretion is plausible.
Urzaiz M. Trigo-Rodriguez J. M. Mestres N.  
*Identification of a Silico-Phosphate in CK4 Carbonaceous Chondrite Allan Hills 85002 [#1785]*

We identify using Raman a new silico-phosphate surrounding an olivine chondrule in CK4 chondrite ALH 85002. We discuss the possibility of shock compression.

Weisberg M. K. Ebel D. S.  
*Metal-Sulfide Nodules in ALH 81189 Highly Primitive EH3 Chondrite and the Origin of Enstatite Chondrite Components [#2133]*

Metal-sulfide nodules in ALH 81189 formed by partial melting of solids and recycled chondrule fragments and accreted with chondrules to form EH chondrites.