



From the Editor

Our October issue is packed with some interesting papers from a “mixed bag” of studies. The first, by Chabot and Jones, deals with solid metal-liquid metal partitioning of S, P, and C, which is of considerable importance to understanding the formation and composition of iron meteorites.

The second paper (Dypvik et al.) explores sedimentary deposits in the Mjølнар crater on the Barents Sea ice shelf. This study of this old impact (142 Ma) did not reveal any evidence for impact glasses, but the study allows us to understand the changes occurring to older underwater impact deposits.

Heider and Kenkmann discuss numerical simulations of shock effects, especially along fissures and phase boundaries. A petrographic study by Rubin et al. of Spade, an H chondrite, emphasizes the effects of post-shock melting in this impact-melt breccia. In another study of impact-melt breccias, Alan Rubin discusses post-shock annealing in Northwest Africa 482 (L6). A different spin on melting processes is reported by van der Bogert et al., who discuss impact-induced frictional melting in ordinary chondrites using an experimental friction-welding device.

Noble-gas measurements on 8 new achondrites, including 3 acapulcoites and 3 brachinites, are discussed by Patzer et al.

It was interesting to note the effects of terrestrial alteration on the noble gases in one of these samples found in a desert environment. Wilkison et al. studied the porosity and density of chondrites, finding little significant correlation with various petrologic, chemical, and physical characteristics of the meteorites. Finally, Kodama and Yamaguchi delve into studies of lunar mare volcanism in a study using the Clementine UV and visible multi-spectral data.

Our office continues to work to bring your issues of *Meteoritics & Planetary Science* back into concordance with the publication date. We are looking forward to bringing you many interesting high quality papers on a variety of subjects in the near future.

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Editor

Tucson, Arizona
October 2003