

Jens Barosch

Carnegie Institution of Washington, EPL
5241 Broad Branch Rd. NW, Washington DC 20015
Email: jbarosch@carnegiescience.edu

Education/Employment

Since 2020: Postdoctoral Researcher, Carnegie Institution of Washington, EPL
2020: PhD in mineralogy and cosmochemistry, University of Cologne
2016: M.Sc. in geoscience (mineralogy), Heidelberg University
2013: B.Sc. in geoscience, Heidelberg University

Research Interests

- Formation and development of chondritic meteorites and their components
- Composition and formation of presolar grains
- Conditions in the early solar system
- 3D structure of meteorites
- Longevity of microorganisms trapped in fluid inclusions
- Geochronology of the early earth (^{40}K - ^{40}Ca)

Skills: SEM, EPMA, XRF, μ -CT, SIMS

Publications

updated: Nov. 2020

- (2020) **An unusual compound object in Y-793408 (H3.2-an): The missing link between compound chondrules and macrochondrules?** Barosch J., Hezel D. C., Marrocchi Y., Gurenko A. and Lenting C. *Meteoritics & Planetary Science* 55, 1458–1470.
- (2020) **Formation of chondrules and matrix in Kakangari chondrites.** Barosch J., Ebel D. S., Hezel D. C., Alpert S. and Palme H. *Earth and Planetary Science Letters* 542.
- (2020) **Sectioning effects of porphyritic chondrules: implications for the PP/POP/PO classification and correcting modal abundances of mineralogically zoned chondrules.** Barosch J., Hezel D. C., Sawatzki L., Halbauer L. and Marrocchi Y. *Meteoritics & Planetary Science* 55, 993–999.
- (2019) **Mineralogically zoned chondrules in ordinary chondrites as evidence for open system chondrule behaviour.** Barosch J., Hezel D. C., Ebel D. S. and Friend P. *Geochimica et Cosmochimica Acta* 249, 1–16.

Communications

- (2019) **Formation of chondrules and matrix in Kakangari chondrites.** Barosch J., Ebel D. S., Hezel D. C. and Alpert S. *82nd Annual Meeting of The Meteoritical Society*. LPI Contrib., abstract.
- (2018) **Mineralogical chondrule zonation in chondrites.** Barosch J., Sawatzki L. and Hezel D. C. *81st Annual Meeting of The Meteoritical Society*. LPI Contrib. No. 2067, abstract.
- (2018) **No evidence for transition zone metamorphism in diamondiferous ophiolites.** Ballhaus C., Fonseca R. O. C., Bragagni A., Wirth R., Pröll W., Schreiber A. and Barosch J. *GeoBonn*, abstract.
- (2017) **Mineralogical chondrule zonation in ordinary chondrites.** Barosch J., Hezel D. C., abstract. *Workshop on Chondrules and the Protoplanetary Disk, London, UK*. LPI Contrib. No. 1963
“The System Earth and its materials”, GeoBremen, Germany
Paneth Kolloquium, Noerdlingen, Germany
- (2015) **K-Ca dating of muscovite.** Barosch J., Trieloff M., Schmitt A., Schwarz W. H., Ludwig T. and Meyer H. P. *Paneth Kolloquium, Noerdlingen, Germany*, abstract.