

EDUCATION

Brown University Ph.D. in Geophysics, Advisor: Greg Hirth	Providence, RI 2016–2021
University of Minnesota - Twin Cities B.S. in Materials Science and Engineering	Minneapolis, MN 2009–2013

EXPERIENCE

Corning Incorporated Firing Process Engineer — Focused on diesel filter firing cycle mechanical stress prediction (modeling) and 'big data' processing	Corning, NY 2013–2016
Corning Incorporated Engineering Intern — Study of wet cordierite die swell (rheology) and side feeder extruder performance	Corning, NY summer 2012

PUBLICATIONS

- [1] A. Moarefvand, J. Gasc, J. Fauconnier, M. Baïssset, **E. Burdette**, L. Labrousse, and A. Schubnel, “A new generation griggs apparatus with active acoustic monitoring”, *Tectonophysics*, p. 229 032, 2021, ISSN: 0040-1951.
- [2] K. Okazaki, **E. Burdette**, and G. Hirth, “Rheology of the fluid oversaturated fault zones at the brittle-plastic transition”, *Journal of Geophysical Research: Solid Earth*, vol. 126, no. 2, e2020JB020804, 2021.
- [3] **E. Burdette** and G. Hirth, “Enhanced dehydration weakening of antigorite driven by slow shear heating: Insights from high-pressure experiments with a modified apparatus stiffness”, *Journal of Geophysical Research: Solid Earth*, vol. 125, no. 11, e2020JB020064, 2020.