

ATS/CIRA Colloquium

**Meredith
Hastings**

Associate Professor at IBES

**3 p.m. Thursday,
Mar.24 ATS 101
Hosted by Jeff Collett**

Fingerprinting Reactive Nitrogen Sources and Chemistry

Meredith Hastings is a Professor in the Department of Earth, Environmental, and Planetary Sciences at Brown University. She has a joint appointment with and currently serves as Deputy Director of the Institute at Brown for Environment and Society. Reactive nitrogen (including nitrogen oxides, ammonia, nitrate, nitrite, ammonium, and organic nitrates) serve major roles in controlling the composition of our atmosphere, and have a direct impact on ecosystem health and water quality. Hastings' research group is focused on using the nitrogen and oxygen stable isotopic composition of reactive nitrogen species to investigate variations in sources, oxidation chemistry, atmospheric transport, and deposition. This seminar will discuss recent method developments, approaches to laboratory versus field experiments and applications from wildfires to agricultural to urban emissions. Hastings' also leads a range of outreach and education activities in support of promoting professional development for early career researchers (via the Earth Science Women's Network, which she co-founded) to tackling hostile workplace climate in the geosciences (as a co-PI on the ADVANCEGeo project).

Colloquia page: atmos.colostate.edu/colloquia