



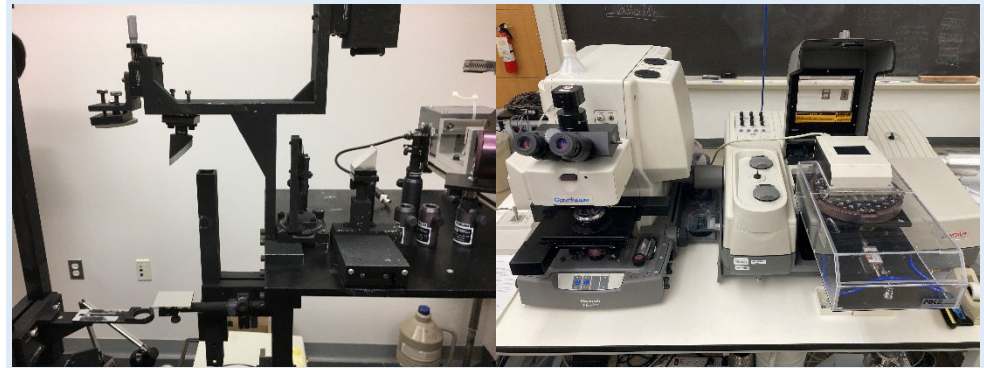
Reflectance Experiment LABORatory (RELAB)

PI: Ralph Milliken/Brown University

<https://sites.brown.edu/relab/>

Description of Facility

- Spectral reflectance and transmission data of Earth and planetary materials at visible-near-mid-far infrared wavelengths
- Custom bi-directional spectrometer (BDR) for reflectance or transmission measurements; viewing geometry can be changed for photometric studies; FTIR and microscope FTIR for reflectance and transmission measurements
- 100% available for community use
- Analyses done by facility personnel or by visitors
- No restrictions for short term use; long term or independent use requires completing university lab safety training



Left: Close-up image of portion of the custom bi-directional spectrometer showing exiting path for light reflecting off of sample surface.
Right: Existing microscope FTIR and benchtop FTIR for acquiring near-mid-far IR spectra; these instruments will be upgraded in 2023 as part of PSEF funding.

How to use the facility

- E-mail Ralph_Milliken@brown.edu and Takahiro_Hiroi@brown.edu
- All requests for feasible measurements are accepted
- Requests are prioritized based on first-come first-serve basis; large number of measurements for single user may be interspersed with other user measurements; NASA-funded researchers given priority
- No charge to users other than costs for shipping materials to and from the facility

Contact information:

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For measurement requests and lab use, contact:

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