2019 IsoAstro Geochronology Workshop: The integration and intercalibration of radioisotopic and astrochronologic time scales
June 5-11, 2019, Rock Springs, Wyoming
Co-conveners: Dr. Stephen Meyers, Dr. Mark Schmitz, Dr. Bradley Singer, Dr. Michael Smith

PURPOSE: U-Pb and \(^{40}\text{Ar}/^{39}\text{Ar}\) geochronology provide the backbone of the Geologic Time Scale, while astrochronology has emerged as one of the most important tools for enhancing the accuracy and precision of high-resolution time scales, especially through ash-poor intervals. This one-week long summer short course and workshop will review the basic theory underlying U-Pb geochronology, \(^{40}\text{Ar}/^{39}\text{Ar}\) geochronology, astrochronology and integrated stratigraphy (including bio-magneto-chemo-lithostratigraphy), and provide hands-on experience with data analysis. An emphasis will be placed upon understanding the challenges inherent in the interpretation of radioisotopic and astrochronologic data, and the power of combining multiple chronometers. The workshop will include practicals on U-Pb and Ar-Ar data processing and interpretation, astrochronology tutorials using the software “Astrochron: An R package for Astrochronology”, and a field trip to study the classic Green River Formation deposits, illustrating the integration of multiple chronometers.

PARTICIPATION: The 2019 IsoAstro workshop is intended for both “consumers” and “producers” of geochronologic data. Undergraduate students (strongly encouraged), graduate students, post-doctoral students and researchers are invited to participate. Depending upon individual need and available funding, partial/full support of participant costs will be supplied. To apply, please complete and submit an application form: http://www.geology.wisc.edu/~smeyers/IsoAstro.html
Applications must be received no later than March 15, 2019.