

TRIAD CHEMICAL TIMES



Central North Carolina Section American Chemical Society



Upcoming Events

October 13, 2023: Local Section Meeting: “Minerals in meteorites: the elemental encyclopedia of early solar system history” Mr. Anthony Love, Department of Geological and Environmental Sciences, Appalachian State University Meeting location: GTCC, Jamestown campus (see p 2, 3 for details).

October 15-21, 2023 : National Chemistry Week Theme: The Healing Power of Chemistry (details to follow)

October 25-28, 2023: SERMACS, Durham, NC
<https://sermacs2023.org/>

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CNC-ACS Officers

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Newsletter Editor: Bill Eberle		bill.eberle@syngenta.com



October Section Meeting

Date: October 13th, 2023

Time: 6:00 pre-talk reception in Science Hall, room 111; 7:00 p.m. presentation in Koury Auditorium; post-talk public viewing at Cline Observatory, weather permitting.

Location: Auditorium, Koury Hospitality Careers Center, Guilford Technical Community College, Jamestown, NC (Koury is building 19 on this [campus map](#). The pre-talk reception is in Science Hall, Room 111– building 24.)

Speaker: Mr Anthony Love, Department of Geological and Environmental Sciences, Appalachian State University

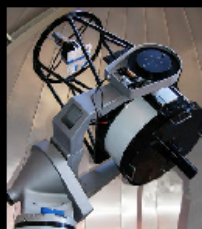
Biography: Anthony Love is the Research Operations Manager for the Department of Geological and Environmental Sciences at Appalachian State University. He holds a BS in Geology from Appalachian State University. He has been studying and classifying meteorites since 2009. He is a regular contributor to the meteoritical bulletin and samples characterized at Appalachian State have been sought after and utilized in studies for further understanding of solar system processes. Anthony has also been a collaborator with PARI and worked with staff on a variety of volunteer projects.

Presentation: *Minerals in meteorites: the elemental encyclopedia of early solar system history*

Planetary scientists use minerals within meteorites to decipher the early history of our solar system. Compositions of these materials inform our understanding of their initial formation conditions and geologic processes that have occurred on their parent body asteroids or planets. Reflectance spectra from ground based instruments inform our inventory of the materials of the asteroid belt while isotopic data provides fingerprinting which connects these samples to their parent body planets and asteroids. Isotopic data also constrains the chronology of these events to inform us about the history of solar system solids. New data collected by rendezvous/sample return missions is essential in confirming the lack of terrestrial contamination and the presence of a host of organic compounds occurring on early-formed asteroids.

Please join us from 6-8:30 pm on October 13th for an astronomy-themed presentation followed by the unique opportunity to gaze into the solar system at the Cline Observatory

Socialize and network at the pre-talk reception accompanied by food and refreshments



Minerals in Meteorites: The Elemental Encyclopedia of Early Solar System History

Mr. Anthony Love

Department of Geological and Environmental Sciences, Appalachian State University

ABSTRACT:

Planetary scientists use minerals within meteorites to decipher the early history of our solar system. Compositions of these materials inform our understanding of their initial formation conditions and geologic processes that have occurred on their parent body asteroids or planets. Reflectance spectra from ground-based instruments inform our inventory of the materials of the asteroid belt while isotopic data provides fingerprinting which connects these samples to their parent body planets and asteroids. Isotopic data also constrains the chronology of these events to inform us about the history of solar system solids. New data collected by rendezvous/sample return missions is essential in confirming the lack of terrestrial contamination and the presence of a host of organic compounds occurring on early formed asteroids.

Biography:

Anthony Love is the Research Operations Manager for the Department of Geological and Environmental Sciences at Appalachian State University. He holds a BS in Geology from Appalachian State University. He has been studying and classifying meteorites since 2009. He is a regular contributor to the meteoritical bulletin and samples characterized at Appalachian State have been sought after and utilized in studies for further understanding of solar system processes. Anthony has also been a collaborator with the Pisgah Astronomical Research Institute (PARI) and worked with staff on a variety of volunteer projects.

Location:

Koury Hospitality Careers Center, Guilford Technical Community College, Jamestown, NC

[\(Click for Link to Google Maps\)](#)

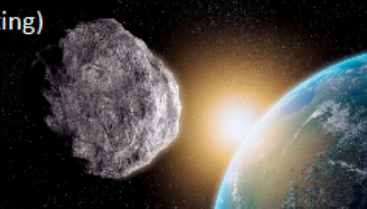
(Koury is building 19 on this [campus map](#))

Times:

6:00 pm: Pre-talk reception in Science Hall (Room 111– building 24)

7:00 p.m: Presentation in Koury Auditorium

Post-talk public viewing at Cline Observatory (weather permitting)



Elections coming at the November Meeting

The local section will vote for Executive Level positions at the November local section meeting. There are also non elected sub-committee positions that are still open. If you are willing to volunteer for any of the positions, please contact Kent Kabler (kent.kabler@syngenta.com).

Please give thought to giving back to your profession.

CNC-ACS Executive Committee

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Director	TJ Mayer	tjmayer@carringers.com	336-708-0643

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