

September 21, 2018



The Search for Meteorites in Antarctica

Dr. Juliane Gross
Rutgers University

Meteorites are our window into the early Solar System. They can be found in many places on Earth. However, safe from water and weathering, few places preserve them as well as the cold desert of Antarctica.

October 29, 2018



Three Generations of Airborne Astronomy

Dr. Jerry Krassner

Astronomical observing is often thought of as using either ground or space-based telescopes. However, airborne telescopes have made many new and important contributions to the field of observational astronomy.

November 16, 2018



The Moon's Magnetic Past

Sonia Tikoo
Rutgers University

Studies of Apollo samples indicate that the Moon once generated a magnetic field of similar intensity to that of modern Earth. This provides a challenge to modern theorists because current models indicate that the Moon cannot produce such fields.

After the lectures join us back at Sperry Observatory for refreshments and observing.

December 21, 2018



The Particle Accelerator of Solar Flares

Dr. Dale Gary
NJIT

The Sun produces the most powerful explosions in the Solar System, in the form of charged particles accelerated to relativistic energies. Breakthrough radio observations can take direct images of these particles for the first time.

January 18, 2019



A Dwarf Star Caught Eating Its Planets. A Pro-Am Collaboration

Dr. Mario Motta

It has been theorized that white dwarf stars "eat" their planets due to disrupted orbits. Star WD1145 had an unusual transit activity now attributed to the star actively eating one of its planets, the first such observation made in a white dwarf star.

February 15, 2019



Evidence of Planetary Demise

Melinda Soares-Furtado
Princeton University

As sun-like stars evolve and expand to many times their size, inner rocky planets like Earth are engulfed by the star. Evidence for this process should be detectable as chemical enrichment in the star's convective envelope.

Business meetings begin at 8 PM in the Roy Smith Theatre on the main campus of UCC. Lectures follow at 9 PM.

March 15, 2019



Listening to the Universe with Gravitational Waves

Jillian Bellovary
CUNY-QCC

100 years after Einstein predicted their existence gravitational waves have finally been detected. The LIGO gravitational wave detector has been able to observe the merger of black holes by the effects of the merging on the fabric of space itself.

April 26, 2019



Size Isn't Everything (For Telescopes)

Moiya McTier
Columbia University

The largest telescopes are at the cutting edge of what is possible to observe. They are, however, not always necessary to do the kinds of work some researchers wish to pursue. Finding the correct telescope for a project is a unique challenge.

May 17, 2019



Members' Research Projects

AAI Members

AAI reserves this month's lecture for speakers from among our membership. These members will share their year's research activities, discuss endeavors in astro-imaging, telescope making projects, as well as other astronomical enterprises.

For more information including possible schedule or venue changes please visit www.asterism.org