



- Amy LeBleu and Harvey Shows Named 2016 Astronaut Scholars
http://www.lsu.edu/science/news_events/cos-news-events/LSUASF2016.php
- Amber Stuver Talks Gravitational Waves and the Impact of Science Communication
<http://lsuscienceblog.squarespace.com/blog/2016/9/16/yppqfqpkq8hzh4ao5eh1b8r51jriyd>
- Update on the Puzzling Boyajians Star
<http://aasnova.org/2016/09/16/update-on-the-puzzling-boyajians-star/>

“Discovering the Newest Species in the Human Lineage: *Homo naledi*”

Juliet Brophy, LSU Department of Geography and Anthropology
Saturday, September 24, 2016, 10:00 - 11:10 AM,
Room 130

Homo naledi is the newest member of our Homo species lineage. The speaker, Dr. Juliet Brophy, is a member of the international team that recently described the fossils of this species.

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Solid!state ion conducting polymers (i.e., polymer electrolytes) are found at the heart of numerous electrochemical processes that store and convert energy, synthesize chemicals, and purify water. One key functional property of these materials is their ion conductivity – a key transport property that governs the ohmic resistance in electrochemical devices. Block copolymer electrolytes are a subset of polymer electrolytes and they are attractive materials because their micro!phase separated architecture yields greater conductivity over their random copolymer counterparts. However, there is a poor understanding between molecular level structure and bulk material properties like ion transport. "

In this work, the process of directed self!assembly controlled the micro!phase separated structure in the block copolymer electrolytes, with astonishing fidelity. Engineering the block copolymer electrolyte structure was achieved by first directing the self!assembly of the non!ionic variant block copolymer (poly (styrene!block!2!vinyl pyridine)) using solvent vapor annealing on non!