NESSC meeting 27 on the outer heliosphere and the interstellar interaction

<http://nessc.sr.unh.edu>

Monday November 19, 2018, 10 AM – 5 PM

U Mass Lowell, UCC Building, Room UCC-158

Parking is across in the Salem St. lot

<https://www.uml.edu/maps/#/buildings>

<https://www.uml.edu/maps/#/parking>

Local Organizers:

Ofer Cohen <ofer\_cohen at uml dot edu>

Paul Song <Paul\_Song at uml dot edu>

NESSC Organizers:

Nathan Schwadron <nschwadron at unh dot edu>

Merav Opher <mopher at bu dot edu>

Web Organizer:

Ken Fairchild <Ken.Fairchild at unh dot edu>

Over the last decade, observations from the Voyager Satellites, the Interstellar Boundary Explorer, and Cassini/INCA have ushered in an era of discovery concerning the previously unknown properties of the global heliosphere and its interaction with the local interstellar medium. Wide ranging observations including those of pickup ions, anomalous cosmic rays and suprathermal particles have significant implications for our understanding of global interstellar interactions.

This 27th meeting of the New England Space Science Consortium includes topics concerning the global heliosphere, the local interstellar medium, interstellar interactions, and related topics. As always, we invite all members of the New England Space Science community to the meeting. And as in all meetings, we will include contributions from participants on wide-ranging topics.

The initial list of speakers is included below. However, at all NESSC meetings we are open to contributed talks and will work speakers into the meeting as necessary.

**Speakers Include:**

John Richardson – V2 Crosses the Heliopause

Chuck Smith (UNH) –  evidence of waves due to interstellar pickup He+ and H+.

Merav Opher (BU) - Global Heliosphere Simulations

Paul Song (UML) – Analytical Approach to Interstellar Boundary Structure

Adam Michaels (BU) – Simulations of the Global Heliosphere

Marc Kornbleuth (BU) – Simulations of the Global Heliosphere

Ofer Cohen (UML) – Modeling of the Heliosphere and Astrospheres

Fatemeh Rahmanifard (UNH) — Interstellar Neutral H from IBEX

Eberhard Moebius (UNH) — Interstellar Neutral Atoms from IBEX and IMAP

Marty Lee (UNH)— Analytical Model of Interstellar Neutral Atoms

Nathan Schwadron (UNH) — IBEX observations of the Ribbon and Globally Distributed Flux over 9 years

Harald Kucharek (UNH) – Secondary Neutral Atoms Observed by IBEX

Phil Isenberg (UNH) – Analytical Modeling of Secondary Neutral Atoms Observed by IBEX

Hans Mueller (Dartmouth) – Interstellar He

Berci Zieger (BU) – Turbulence in the inner heliosheath

For Heliosphere News:

NESSC meeting 27 on the outer heliosphere and the interstellar interaction

<http://nessc.sr.unh.edu>, Monday November 19, 2018, 10 AM – 5 PM, U Mass Lowell, UCC Building, Room UCC-158, Parking is across in the Salem St. lot

<https://www.uml.edu/maps/#/buildings>, <https://www.uml.edu/maps/#/parking>

Local Organizers: Ofer Cohen <ofer\_cohen at uml dot edu> mad Paul Song <Paul\_Song at uml dot edu>; NESSC Organizers: Nathan Schwadron <nschwadron at unh dot edu> and Merav Opher <mopher at bu dot edu>

Over the last decade, observations from the Voyager Satellites, the Interstellar Boundary Explorer, and Cassini/INCA have ushered in an era of discovery concerning the previously unknown properties of the global heliosphere and its interaction with the local interstellar medium. Wide ranging observations including those of pickup ions, anomalous cosmic rays and suprathermal particles have significant implications for our understanding of global interstellar interactions.

This 27th meeting of the New England Space Science Consortium includes topics concerning the global heliosphere, the local interstellar medium, interstellar interactions, and related topics. As always, we invite all members of the New England Space Science community to the meeting. And as in all meetings, we will include contributions from participants on wide-ranging topics.