



## Science and Technology of Materials, Interfaces, and Processing

### Topical Areas

Biomaterials  
Environmental S&T  
Magnetic Materials  
Manufacturing S&T  
Materials Characterization  
Materials Processing  
MEMS  
Microelectronic Materials  
Nanometer-Scale S&T  
Plasma S&T  
Surface Engineering  
Surface Science  
Thin Films  
Vacuum Technology

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## 2018 Spring Meeting Hudson Mohawk AVS Chapter Monday, April 30, 2018 4:00 – 8:00 PM

General Electric Global Research Center  
1 Research Circle  
Niskayuna, NY 12309  
Conference Center Rooms 4 - 5

**This meeting will be comprised of a series of invited talks  
with the theme "Additive Manufacturing"  
followed by a poster session and an informal networking event.**

### Preliminary agenda:

Two hours of talk on Additive Manufacturing

- Bill Carter, GE-GRC -- *History, Role of GE in Additive Manufacturing.*
- Laura Dial, GE-GRC -- *Materials Development for Beam-Based Powder Bed Additive Manufacturing.*
- Justin Gambone, GE-GRC -- *In-Process Analytics and Controls for Powder Bed Fusion Additive manufacturing.*
- Andrey Meshkov, GE-GRC -- *High Fidelity Melt Pool Modeling of Powder Bed Fusion Additive Manufacturing.*
- Arun Natarajan, GE-GRC -- *Binder Jet Technology for Additive Manufacturing.*
- Dr. Steven Attanasio, Naval Nuclear Laboratory (NNL) -- *Microstructure of AM-Fabricated Stainless Steel and Effects on Materials Properties.*

The talks will be followed by a poster session. Pizza and drinks will be provided during the poster session.

## Papers

Abstracts are now being solicited for poster presentations on topics of interest within AVS: *surfaces, films, materials, interfaces, vacuum techniques, electronic properties, photovoltaics, nanofabrication, energy storage, etc.*

As an interdisciplinary professional Society, AVS **supports networking** among academic, industrial, government, and consulting professionals involved in a variety of disciplines related to **materials, surfaces, interfaces, and processing**. Participation in the local chapter provides an excellent opportunity to interact in smaller venue compared to the larger national conferences, affording the participants time to focus on presentations of scientific work that is happening in

our immediate geographic proximity, along with ample time for professional networking.

These local chapter meetings are also an ideal setting for students and early career researchers and professionals to present their research. Student participation is strongly encouraged. Established professionals are also welcome to submit abstracts, which could include recent studies, or provide overviews of topics of general scientific interest to the Society and chapter members.

Registration for the meeting is free and will start at 4.00 PM. Pizza, soda, and water will be provided at about 6:30 pm. At the end of the meeting, awards will be given for the best poster presentation(s). The award winner(s) will be given a certificate from the AVS and also publicized in the AVS Newsletter.

Please email your Name, Affiliation, and email address to [deysonal2012@gmail.com](mailto:deysonal2012@gmail.com) to submit an abstract and to register:

- For abstracts, by April 13, 2018, using the instructions found on next page, with the exact subject line in the email, "**HMAVS Spring 2018 Abstract**".
- For registration, by April 13, 2018, with your name and affiliation, with the exact subject line in the email, "**HMAVS Spring 2018 Registration**".

Please send separate emails for abstract submission and meeting registration.

Please forward this announcement to your colleagues!

*Sonal Dey,  
Chair, AVS Hudson Mohawk Chapter*

## **Instructions for Submitting Abstracts to the HMAVS Fall meeting:**

### **Prior to April 13, 2018**

Please include "HMAVS Spring 2018 Abstract" in the subject line of your email.

#### **Abstract format:**

- One page abstract 8.5" x 11", with 1" margins all around, MS Word (12pt Arial, and/or symbols). No pdf files.
- Center title, authors, and affiliation at the top.
- Leave one blank line between title and authors, and between authors and affiliations.
- Print title bold, all uppercase (except chemical symbols).
- Type the names of the authors (mixed case) and underline presenting author's name.
- Type author affiliations.
- Type e-mail address of the presenting author.
- Leave another blank line.
- Type abstract text, single-spaced, with one blank line between paragraphs. Graphs and images can be included, as long as the entire abstract fits on one page.

*Please indicate at the bottom of the abstract if you are a student.*

*Past award winners can present at the meeting but are not eligible for the awards.*