



**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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2016 SPRING MEETING of the AVS HUDSON MOHAWK CHAPTER

Monday May 9, 2016

4pm – 8pm

General Electric Global Research Center

1 Research Circle

Niskayuna, NY 12309

Conference room 4 and 5

**This meeting will be comprised of a series of invited talks
with the theme "X-Ray Sources and Systems"**

Preliminary agenda:

Two Hours of Talks on X-ray Technology

- Need for advanced medical imaging
- History of GE and GRC
- GE's role in early X-ray production
- X-ray physics and sources
- X-ray detectors
- X-ray systems – and beyond (including CT)
- Non-medical uses of X-rays; Non-Destructive Evaluation
Importance of AVS in enabling the above

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

Papers

We are soliciting abstracts for poster presentations at the Spring Meeting of the AVS Hudson-Mohawk Chapter on Monday May 9, 2016. Any presentation related to activities associated with areas relevant to the AVS (surfaces, films, materials, interfaces, vacuum, electronic properties, photovoltaics, nanofabrication, storage, etc) will be considered. *Student participation is strongly encouraged.*

Awards will be given for the best poster presentation at the end of the meeting. The award winners will be publicized in the AVS Newsletter.

To submit an abstract for consideration, please email the abstract to Harry Efstathiadis (hefstathiadis@sunypoly.edu) by Monday April 25, 2016. Abstract details follow.

Abstract format:

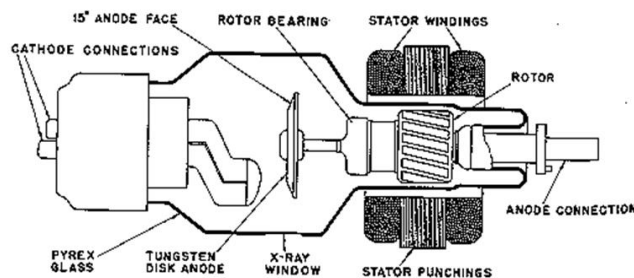
- One page abstract 8.5" x 11", with 1" margins all around, MS Word (12pt Arial, and/or symbols), not pdf file.
- Center title, authors, and affiliation at the top.
- Leave one blank line between title and authors, and between authors and affiliations.
 - Print title bold, all uppercase (except chemical symbols).
 - Type the names of the authors using upper and lower case as needed. Underline presenting author's name. Type each author's affiliation.
 - 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.

Electronic posters will be accepted (e.g., scrolling PowerPoint files) – the presenter will need to provide the laptop; the screen saver will need to be disabled.

The winners will be decided by the chapter officers and members-at-large. Chapter officers, members-at-large, AVS Board members, and past award winners can present at the meeting but are not eligible for the awards.

Registration for the meeting is free; *however you must pre-register* by contacting John Scott Price (prices@research.ge.com) or Vincent Smentkowski (smentkow@ge.com) prior to April 25, 2016. You will need to provide your full name, affiliation, and citizenship status. *If you do not pre-register, you may not be able to enter the facility!* You will need to provide a government issued ID upon arrival at GRC (non US citizens must bring their passport). A map, and details regarding visitor check in and parking will be provided at a later date. Pizza, soda, and water will be provided after the talks. Please forward this announcement to your colleagues!

Harry Efstathiadis
Chair, AVS Hudson Mohawk Chapter
hefstathiadis@sunypoly.edu



Schematic of Rotating Anode Cooling Type X-ray Tube, Model RT 1-2, 1936, General Electric Company