

# ***SER-CAT Detector Workshop***

## **Best Practices for the Collection, Processing, Analysis, Transfer and Storage of Data from the New Dectris Eiger 16M Detector**

April 12, 2018 (one day before the SER-CAT Symposium)

Room 1128 Parker H. Petit Institute for Bioengineering and Bioscience  
Georgia Institute of Technology

SER-CAT has recently installed an Eiger 16M detector on beamline 22ID. The new detector is capable of generating 600 images per second. Images have an almost zero background and a top-hat peak profile resulting in data of the highest quality.

The detector differs significantly from the Rayonix MX300HS detector it replaced. These differences will effect how users collect, process, analyze, transfer and store data, and a half-day workshop has been organized to address these issues. More details will be available on the Symposium web site (<http://petit institute.gatech.edu/ser-cat/program>).

The workshop is free; however, you must register for it on the symposium web site (see above). If you have any questions please contact John Rose ([jprose@uga.edu](mailto:jprose@uga.edu)).

<b>Time</b>		<b>Topics Covered</b>
1:00	John Rose	Welcome
1:05	John Chrzas	Overview of the SER-CAT Facility
1:25	Pascal Hofer	Dectris Eiger 16M and Dectris U.S.A
1:45	Albert Fu	Eiger 16M Commissioning and Data Collection Best Practices
2:05	Albert Fu	Processing Eiger 16 M data
2:25	Frank Murphy	Rapd - Automated processing/structure determination
2:45	John Rose	Data transfer (GridFTP) and Storage (IRRCM)
3:05		<b>Coffee Break</b>
3:20	Albert Fu	DEMO- Remote Data Collection and Processing
4:00	John Rose	DEMO - Setting up Globus GridFTP in the home lab
4:20	Frank Murphy	Demo - Using Rapd at SER-CAT
5:00		<b>Adjourn</b>