



# NSF Campus Cyberinfrastructure PI and Cybersecurity Innovation for Cyberinfrastructure PI Workshop

October 18-20, 2016 | Philadelphia, PA

**NSF Program: CC\***

**Program Area: DNI**

**Award Number: 1541001**

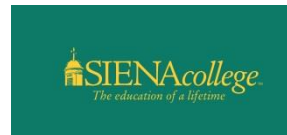
**PI: Mark Berman, Siena College**

**CO-PI:** George Barnes, John Moustakas, Mary Parlett-Sweeney, Angelo Santabarbara

**Project Title:** Networking Infrastructure: Building a high performance network to support advanced instrumentation, computation-intensive analysis and data-intensive science research

## **Project Goals:**

- Improve Network Infrastructure in the Science Buildings and create a Science DMZ
- Increase bandwidth between research facilities and DataCenter housing the HPC
- Increase internal network speeds in the HPC and between the HPC and the Science DMZ core



PI Picture



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October 3-4, 2017 | Albuquerque, NM

## Quad Chart for:

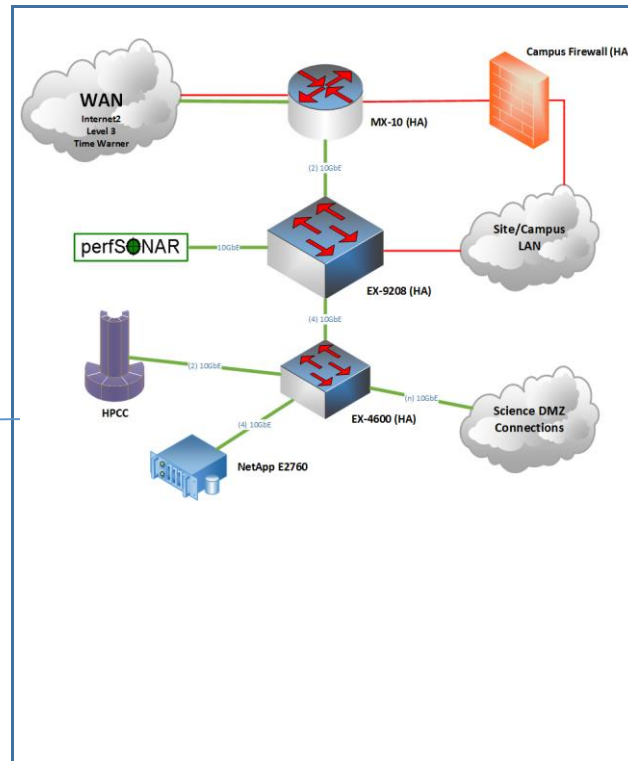
CC\*DNI Networking Infrastructure: Building a high performance network to support advanced instrumentation, computation-intensive analysis and data-intensive science research

### Challenge or Approach:

- Improve speed and reduce latency for scientific data-flows
- Increase data transfer speeds between HPC and associated storage
- Develop relationships with regional research networks

### Solution(s) or Deliverables:

- Science DMZ
- Upgrade network infrastructure in Science Buildings
- Upgrade network infrastructure for HPC
- Join NYSERNET



### Scientific Impact or Broader Impact:

- Increased utilization of our HPC
- Reduced time for large data transfers
- Exposure of undergraduate students to active scientific research
- Ease barriers to collaboration with colleagues at other institutions

### Metadata tag:

- <https://goo.gl/5RVxJy>
- <Ready for transition to practice!>
- <Publications pending>
- <Student engagement>