

Panel Discussion: Support for Campuses and Leadership

Michael Turner

Director of Network Infrastructure

University of Alabama in Huntsville (UAH)



UAH Cyberinfrastructure

- UAH has received two NSF CC* grants (CC*IIE, CC*DNI) in order to advance the overall cyberinfrastructure on campus and within the region
 - Under the CC*IIE Grant UAH was awarded and hired a Cyberinfrastructure Engineer
 - Under the CC*DNI Grant, UAH was awarded money to build our Science DMZ
- UAH has hosted the Internet2 Broadening the Reach
- UAH has also hosted a SPAN Conference in coordination with Clemson, which brought in Cyberinfrastructure Representatives from around the region



UAH Cyberinfrastructure (CI) Engineer

- The UAH CI Engineer was hired to:
 - Bridge the gap between the Office of Information Technology (OIT) and the Scientists and Researchers on campus
 - Create a Community of Interest within the region to foster the development of advanced networking
 - Engage with regional and national organizations to advance cyberinfrastructure



UAH Science DMZ

- Through the CC*DNI grant, UAH has been able to design and implement, under the guidance of the CI Engineer, a 100GE/40GE Science DMZ
 - The Science DMZ was implemented to facilitate data transfers between scientists and researchers at UAH, as well as off campus, through SOX, to other universities, organizations, and government entities
- In addition to the CC*DNI grant, UAH has funded and implemented an entire access layer infrastructure upgrade, which further enhances the effectiveness and utilization of the Science DMZ



UAH Going Forward

- The University of Alabama System has funded and installed an Adva 40x100GE DWDM solution enabling 100GE connectivity to SOX in both Nashville and Atlanta
 - While the DWDM solution has been installed, it is not in production and is undergoing final testing
 - UAH has opted to implement multi-10GE versus going with 100GE supporting outside communications, although we are currently researching the 100GE option
- The UAH CI Engineer is currently developing and testing an Open Day Light SDN controller to enable firewall bypass for large file transfers

