

UNCG Internet2 Day
February 17th, 2012, 8:30a-noon - EUC Auditorium

Join us to learn about Internet2 services and opportunities!

Internet2 is a high-speed advanced network linking together universities, industry, government and other research/creative entities. Beyond the network itself, Internet2 offers subject-area focused programs and special interest groups, including Arts & Humanities, Health Sciences, Science & Engineering, and more. See <http://www.internet2.edu/> for details regarding Internet2 services and opportunities.

UNCG's Internet2 Day is co-sponsored by Internet2, the UNCG Office of Research & Economic Development (ORED), and Information Technology Services (ITS).

Note: Refreshments will be available in the lobby beginning at 8 am. Food and beverages are not permitted in the auditorium.

- **Welcome and Introduction 8:30a-9a**
 - Dr. Terri Shelton, Vice Chancellor for Research & Economic Development (ORED); and Dr. James Clotfelter, Vice Chancellor & CIO (ITS)
- **Internet2 Overview 9a-9:50a**
 - Ann Doyle, Global & Cultural Collaborations (Internet2)
- **Helium Ion Microscope Nanotechnology Demonstration 9:50a-10:15a**
 - Dr. Adam Hall, Assistant Professor of Nanoscience (UNCG & NC A&T Joint School of Nanoscience & Nanoengineering); Dr. Jijin Yang, Sr. Application Specialist (Carl Zeiss Microscopy); with introduction by Gloria Thornton, Assoc. Vice Chancellor for Client Services (UNCG ITS) and assistance from Jack McGuinn, Project Manager (UNCG ITS)
 - This session will demonstrate the potential for remote access and control of the JSNN's Zeiss Helium Ion Microscope over the UNCG/NCREN/I2 network.
- **Break/demonstration set-up 10:15a-10:25a**
- **Real-time Musical Interaction Presentation/Demonstration 10:30a-11:15a**
 - Ann Doyle (Internet2); Dr. Dennis AsKew, Professor of Tuba, Euphonium and Music Education (UNCG School of Music, Theater and Dance); and Matthew Libera, Performing Arts Technology Consultant (UNCG School of Music, Theater and Dance)
 - This presentation will include video of UNCG faculty member Marjorie Bagley's recent groundbreaking performance of a duet over Internet2 using LOLA (Low Latency audio/video) - <http://www.internet2.edu/arts/LOLA.html>.
 - Dr. Dennis AsKew will then perform a live demonstration of remote master class instruction with tuba student Kurt Bonamer at the Northern Illinois University School of Music in DeKalb, Illinois. This will be the first time that the Digital Video Transport System (DVTS) has been used for a musical demonstration/performance at UNCG.

- **Skynet PROMPT (Panchromatic Robotic Optical Monitoring and Polarimetry Telescopes) Demonstration 11:15a-11:40a**
 - Dr. Aaron LaCluyze, Physics & Astronomy (UNC Chapel Hill); with introduction by Dr. Steve Danford, Physics & Astronomy (UNCG College of Arts & Sciences) and assistance from Gloria Thornton (UNCG ITS)
 - Dr. Danford will discuss how he has used Skynet (<http://skynet.unc.edu/>) for his work at UNCG. Dr. LaCluyze will then demonstrate how high-bandwidth network connectivity allows him to remotely control, from his office in Chapel Hill, Skynet PROMPT instruments located 4,000 miles away in Chile.

- **Wrap-up, Final Q&A 11:40a-noon**
 - Ann Doyle (Internet2) and Dr. Jim Clotfelter (UNCG ITS)

Special Thanks:

This event would not have been possible without the cooperation, time and efforts of our sponsors and presenters. In addition, many technical, A/V specialists and other collaborators worked together to make this day possible. This includes Denise Cowardin, ITS Research Support Specialist, and our A/V and technology experts including Adem Weldon and Lane Ridenhour of ITS, Neal Thaker of UTLC, and Drew Sharpe, Technical Services Manager of the EUC, who lent his expertise to many rehearsals and practices to ease our anxieties and make sure we were prepared for today. The music demonstration would not have been possible without the efforts of Dr. Paul Bauer, Director of the NIU School of Music, and Dan Nichols, Head of Recording Services for the NIU School of Music. Graduate student Todor Antonijevic at the JSNN provided his time and skills for testing remote access to the Helium Ion Microscope. John Williams and Philip Klutz of ITS provided networking expertise, and James Eagle and Jeff Williams provided laptops and other needed equipment. Finally, Jan Albrecht of ITS provided expert assistance with the event logistics, including the catering which provided us with much-needed coffee at 8 am this morning.