Broadband Networks, Internet2 and Health Informatics: What will the Impact Be on Health Care, Education and Research?

Co-Sponsored by the
UMDNJ’s NIH-Funded IAIMS Project, Informatics Institute and Department of Information Services & Technology
Monday November 14, 2005
8:00AM – 4:00PM
UMDNJ – Robert Wood Johnson Medical School
675 Hoes Lane Piscataway, NJ

As a member of the Internet2 consortium, UMDNJ is now connected to over 200 leading edge academic institutions in the United States through an advanced, high bandwidth, low latency network purpose-built to support research, education and provide a framework for the emergence of even higher performance networks in the future. At the same time, IST in collaboration with the schools and units is completing its own next generation network to support increasing demands for performance, reliability and security. The convergence of these two developments, facilitated through our connection to NJedge.Net, the State’s Higher Education Network, translates into new capabilities, not only in the arena of Internet2, but within the University and among our collaborators across the State of New Jersey and beyond. The objective of this day is to introduce these new capabilities, stimulate awareness in “next generation applications” and the ways they can advance our research and educational agendas and provide practical information for getting started in this new arena of high bandwidth communication.

PRELIMINARY PROGRAM

8:00 Registration and Breakfast Great Hall

Morning Session: Lecture Hall East

9:00 – 9:30 Welcome Remarks
Dr. William Welsh, Director Informatics Institute of UMDNJ
Dr. Leslie Michelson, Director IS&T - Academic Systems and Technologies

9:30-10:00 Introduction to Internet2
Jennifer McDougall, Applications Coordinator, Mid Atlantic Gigapop (MAGPI)

10:00 – 10:45 Keynote Address – Clinical Applications and Internet2, Michael McGill, Health Sciences Program Manager, Internet2

10:45-11:00 Break

11:00 – 11:30 Network-based Tools for Investigative Research & Clinical Informatics
Dr. David Foran, Associate Director for Research, Informatics Institute of UMDNJ

11:30 – 12:15 Keynote Address – New Jersey’s Higher Education Network
George Laskaris, Executive Director, NJEDge.Net

12:15 – 1:15 Lunch, Exhibits and Poster Session in RWJMS Great Hall
Afternoon Breakout Sessions: RWJMS Small Group Rooms (C1 – C6)

1:15 – 2:15
Track 1: Getting Started
Room C1/C2: Accessing Internet2 from UMDNJ: IST
Room C3/C4: NJEDge.Net advanced services portfolio: NJEDge.Net staff
Room C5/C6: IP Video conferencing basics: IST & NJED.Net staff

2:15 – 3:15
Session
Room C1/C2: Access Grid demonstration: IST & NJEDge.Net
Room C3/C4: Internet2 Clinical Application suite: Michael McGill
Room C5/C6: High Performance Computing Solutions for at UMDNJ: IST

3:15 – 3:30 Break

3:30 – 4:00 Wrap Up and Questions RWJMS Great Hall

For more information on the program and to submit posters for consideration please call the UMDNJ Informatics Institute at (973) 972-0154.

1UMDNJ IAIMS Project

The goal of NIH’s Integrated Advanced Information Management Systems (IAIMS) program is to create an organizational mechanism within health institutions which efficiently and effectively manages the health care knowledge base, provides a means for quick, reliable access to information within multi-user, multi-institutional environments. The IAIMS history at UMDNJ spans more than a decade. In 1992, the University created a faculty advisory group on information technology, the Academic Information Technology Advisory Committee, known as AcITAC. In the spring of 1994, AcITAC funded a pre-IAIMS planning partnership with $25,000. A group drawn from its membership that included representatives of the University Libraries, the Department of Information Services and Technology, the Office of Academic Affairs and academic units, was charged with developing an IAIMS Planning Grant application that was submitted in June 1995 and awarded in September 1996. The Final Grant Report & IAIMS Strategic Plan were completed in the Fall of 1999. The University subsequently submitted a proposal for a five-year, $2.5 million IAIMS operational phase grant that was awarded in May 2002.

2The Informatics Institute of UMDNJ

The University-wide Informatics Institute was established by the Board of Trustees of the University of Medicine and Dentistry of New Jersey on March 20, 2001 to integrate and strengthen informatics activities across the Schools of the University. The Institute seeks to advance biomedical research, educate scientists, and enhance clinical practice through innovation in the broad disciplines that comprise Informatics.

Key functions of the Institute are to:

- Organize and support the development of innovative informatics research programs
- Offer fellowships, pre-doctoral and post-doctoral training to students, faculty and others who wish to work on informatics projects related to research, education and patient care
- Collaborate with the Schools and Departments to strengthen existing educational courses and programs in informatics and their integration across UMDNJ Schools
- Organize seminars, symposia and related activities in informatics to augment knowledge, understanding, and support of informatics within and beyond the University community
- Foster potential collaborations with academic, government and corporate partners in the area of informatics
In support of the University, Information Services and Technology's (IST) mission is to promote and integrate the technologies necessary to advance education, research, healthcare and public service. IST facilitates information technologies through the networking of people, information and resources, and is committed to providing leadership and support for the effective use of technology through the pursuit of excellence in:

- On demand accessibility to information and tools - Administrative, clinical, and research systems and databases, learning environments, Internets, full-text resources and medical images.
- Quality Client Service - Service Center, Training, Consulting, Supported products and Partnerships.
- State-of-the-art enterprise-wide infrastructure - Strategic planning; Communications and technology solutions; Computer labs and classrooms; and Desktop computing services.

Internet2

Internet2 is a consortium being led by 206 universities working in partnership with industry and government to develop and deploy advanced network applications and technologies, accelerating the creation of tomorrow's Internet. Internet2 is recreating the partnership among academia, industry and government that fostered today’s Internet in its infancy. The primary goals of Internet2 are to:

- Create a leading edge network capability for the national research community
- Enable revolutionary Internet applications
- Ensure the rapid transfer of new network services and applications to the broader Internet community.