

CYBERINFRASTRUCTURE DAY @ UHD

FRIDAY, NOVEMBER 7, 2008
SPECIAL EVENTS CENTER
UNIVERSITY OF HOUSTON-DOWNTOWN

Minority Serving
Institutions -
CyberInfrastructure
Empowerment
Coalition (MSI-CIEC)*



National Science Foundation CI TEAM Implementation Project
0636352: Richard A. Alo', PI, CCSDS, UHD; co PIs: Karl Barnes,
National Association for Equal Opportunity in Education, Diane
Baxter, San Diego Supercomputer Center; Geoffrey Fox, Indiana
University, Al Kuslikis, American Indian Higher Education
Association, Alex Ramirez, Hispanic Association of Colleges and
Universities, Julie Foertsch, LEAD Institute, Evaluator

8:00 - 8:30

Registration and Coffee

8:30 - 8:45

Welcome and Opening Remarks

Max Castillo, President, UHD

Molly Woods, Vice President for Academic Affairs and Provost, UHD

Hossein Shahrokhi, Division of Information Technology, UHD

Richard A. Aló, Executive Director for Grants and Contracts, College of Sciences and Technology, & Executive Director, Center for Computational Sciences and Advanced Distributed Simulation, UHD

Amelia A. Rouse, University of New Mexico, Facilitator

WHAT IS CYBERINFRASTRUCTURE?

8:45 - 9:15

Opening Keynote

Overview of Cyberinfrastructure and the Breadth of Its Application

An overview of resources, projects and virtual organizations utilizing and available as cyberinfrastructure for faculty and student research and education.

Presenter: *Geoffrey C. Fox*, Professor of Computer Science, Information Science and Physics, Community Grids Lab, Indiana University

9:15 - 10:00

National Selected Show Case Projects (with strong student research components)

The Texas Learning and Computation Center (TL2C)

Presenter: *S. Lennart Johnsson*, Professor of Computer Science, Mathematics and Electrical and Computer Engineering, Director of the Texas Learning and Computation Center, University of Houston – main campus

Cyberinfrastructure, Remote Sensing, Collaboration and the PolarGrid

Presenter: *Linda B. Hayden*, Professor of Computer Science, Director of Center of Excellence in Remote Sensing Education and Research, Elizabeth City State University

10:00 - 10:15

Break – Meet UHD's new Director of the Office of Sponsored Programs, Carolyn Ivey
(Door Prizes**)**

10:15 - 10:55

National Selected Show Case Projects (with strong curriculum and education components)

Computational Science and Education K-20

Presenter: *Robert M. Panoff*, Executive Director, Shodor Foundation

Cyber-tools and Cyber-Environments for Education

Presenter: *Krishna P. C. Madhavan*, Assistant Professor of Engineering and Science Education

10:55 - 11:15

National Selected Show Case Projects: Cyberinfrastructure and the Arts

Cyberinfrastructure, the GridJam and Visual Music

Presenter: *Jack Ox*, Research Professor and Artists in Residence at the ARTS Lab, University of New Mexico

11:30 - 12:00

National and Regional Organizations Supporting Faculty in Cyberinfrastructure

Panel Discussion

Russ Hobby, University of California, Davis, Cyberinfrastructure Days and Internet 2
Brad Armosky, TeraGrid and the Texas Advanced Computing Center, University of Texas at Austin
Dan Updegrave, TeraGrid and the Texas Advanced Computing Center, University of Texas at Austin
Alex Ramirez, Minority-serving Institutions Cyberinfrastructure Empowerment Coalition (MSI-CIEC) and the Hispanic Association of Colleges and Universities (HACU)

12:00 - 1:00

Lunch and more ****Door Prizes****

HOW CAN UHD BECOME STRATEGICALLY ENGAGED: EXAMPLES, NEEDS & IDEAS

1:00 - 2:15

UHD Show Case Projects Leveraging Cyberinfrastructure

Cognitive Learning Style and its Effect on the Perception of Learning, Satisfaction and Social Interactions in Virtual Teams

Presenter: Margaret Shipley, Professor, Department of Management, Marketing and Business, University of Houston-Downtown

Intelligent Traffic Simulation using Clusters

Presenter: Ongard Sirisaengtaksin, Professor, Department of Computer and Mathematical Sciences, University of Houston-Downtown

Application in Large Scale Computational Biology with Cluster Computing

Presenter: Hong Lin, Assistant Professor, Department of Computer and Mathematical Sciences, University of Houston-Downtown

Genomics and the Evolution of New Vertebrate Genes

Presenter: Akif Uzman, Chair, Department of Natural Sciences, University of Houston-Downtown

Atmospheric Balloon Studies

Presenter: Donald Musselwhite, Lecturer, Department of Natural Sciences, University of Houston-Downtown

Computational Chemistry

Presenter: Maria Benavides, Assistant Professor, Natural Sciences, University of Houston-Downtown

Mapping Disease Movement in Texas Vineyards

Presenter: Lisa Morano, Associate Professor, Natural Sciences, University of Houston-Downtown

(Brain, Society) vs. (Computer, Cyberworld)

Presenter: Ping Chen, Professor, Department of Computer and Mathematical Sciences, University of Houston-Downtown

2:15 - 2:30

Break – Meet UHD's new Director of the Office of Sponsored Programs, Carolyn Ivey
****Door Prizes****

2:30 - 4:00

Benefiting from Cyberinfrastructure: Facilitated Discussion

Strategic Directions through Examination of the Needs, Strengths, and Funding Opportunities

Facilitator: *Amelia A. Rouse*, Institute for Public Policy, University of New Mexico

4:00

Special Session

Computational Science Education

Presenter: *Robert M. Panoff*, Executive Director, Shodor Foundation