

Association of Computer and Information Science Engineering Departments at Minority Institutions

The Association of Computer and Information Sciences and Engineering Departments at Minority Institutions (ADMI) was founded in August 1989. It was established as a national organization dedicated to exploring and providing remedies to the educational issues in computer/information science and computer engineering that confront minority institutions of higher education.



ADMI Annual Symposium on Computing at Minority Institutions

Each year, the Association of Computer and Information Science/Engineering Departments at Minority Institutions (ADMI) hosts a symposium devoted to computing issues relevant to minority students, education and institutions. An important facet of the symposium is the opportunity to explore collaborations between major research institutions, industry and minority institutions.

Students present papers and explore graduate school opportunities. See the back page for information on the upcoming symposium.



WELCOME!

Welcome to this edition of the ADMI newsletter. If you are new to the organization, please note that ADMI is involved in many activities that benefit faculty and student at Minority Institutions. Please know that ADMI wants and needs your participation to make it more influential in garnering resources for our students, faculty and institutions. I am inviting you to join and be an active participant in ADMI (see "Membership Information" in this flier).

Robert Willis Jr., ADMI President

ADMI BOARD MEMBERS



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RATIONAL WORKSHOP

A Rational Workshop was held on the campus of Hampton University and sponsored by IBM. It was an intensive eight hour workshop on May 14, 2007 open to faculty from ADMI schools. The workshop focused on the Rational Software Architect (RSA) technology which is a complex modeling and software development tool. The workshop was led by Eric Long, a Rational expert and long time workshop conductor. More information on the workshop can be found at: http://www.hamptonu.edu/events/ia_symposium/.

ADMI'S PURPOSE

The purpose of ADMI is to serve as a forum through which designated members of computer and information science and computer engineering departments at minority institutions may address the strategic functions of ADMI.

Participation of minorities in computer and information science and engineering is at an even lower level than in some of the more technical disciplines.

Historically Black Colleges and Universities (HBCU's) have made a valuable contribution to the production of Bachelor of Science degrees earned by Blacks in the sciences and engineering, granting 50 percent of the B.S. degrees in mathematics and 40 percent of the biological and physical science degrees in recent years. A similar state of affairs has been documented for production of Hispanic and Native American scientists and engineers.

In the computing sciences, there is a national problem in the production of American faculty. The problem is manifested most vividly in minority institutions. Many of the faculty at minority schools have at most a master's degree in computer science.

At ADMI institutions, the focus in the computing sciences has been primarily on teaching. Hence, there is a relatively small amount of funding for research and other scholarly activities. Also few opportunities are available for students to participate in research at these institutions.

The goals of ADMI directly address these problems by providing information, conferences, workshops, and other services for its member institutions.

HAMPTON UNIVERSITY 3RD ANNUAL INFORMATION ASSURANCE SYMPOSIUM



On April 9th, 2007, representatives from Elizabeth City State University attended the 3rd Annual Information Assurance Symposium held at Hampton University. The purpose of this symposium was to provide an interface between governmental agencies and information assurance research institutions. This also included providing a forum for the building of information assurance capacity as well as serving as a model for other regional workshops for minority serving institutions.

The Fourth Annual Information Assurance Symposium is scheduled for Thursday, April 3, 2008 at Hampton University.



CI-Team Cyberinfrastructure for the Remote Sensing of Ice Sheets

The vision of the CI-Team Cyberinfrastructure for the Remote Sensing of Ice Sheets is to prepare the current and next generation of traditionally, underrepresented, minority scientists, engineers and educators with the knowledge and skills necessary to conduct interdisciplinary research in areas of cyberinfrastructure, remote sensing, engineering and modeling related to glaciers and ice sheets.

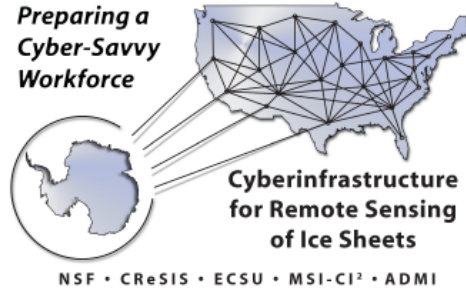
Broader Impacts: This project brings together effective partners to incorporate both academic year research and summer outreach in conjunction with minority serving institutions

ADMI's Role

The Association of Computer and Information Science/Engineering Departments at Minority Institutions (ADMI) agrees to identify 4-5 member institutions in year one and again in year two to participate in the NSF funded CI-TEAM Implementation Project: Cyberinfrastructure for Remote Sensing of Ice Sheets.

Each selected institution will implement a CReSIS or cyberinfrastructure project during the spring semester as a part of a research or seminar CS course. The project will provide desktop videoconferencing equipment for the selected institutions to facilitate communication with ECSU and CReSIS institutions. Students and faculty from the selected institutions also participate in the monthly CReSIS All-hands videoconferences.

**Preparing a
Cyber-Savvy
Workforce**



Summer 2007 Student Research Projects

Creation of a Flexible and Scalable Distributed Computing Infrastructure Using OpenGRID Project Standards

Amanda Bland-MVSU • Andrea Grumbles-ECSU • Camden Hearn-MVSU • Illiana Thomas-ECSU • Tyrone Whitehurst-NSU

Use of Microsoft Visual Studio Express Edition and DirectX SDK to Simulate Movements of Penguin Colonys Tagged for a Science Mission Education

Sandy Harrison-WSSU • Jasmin Rivers-ECSU
Spencer Weeks-Jamieson-ECSU • Terrance Mason-MVSU

Antarctic Firn Annual Emissivity Trends at the Ski Hi Automatic Weather Station from in-situ and SSM/I Brightness Temperatures

Alicia Kirk-FSU • Gregory McGee-MVSU • Travis Smith-ECSU



STELLA[®] TRAINING

On Tuesday March 20, 2007 in the Center of Excellence in Remote Sensing Education and Research (CERSER), Dr. George Hurtt and Dr. Cameron Wake of the University of New Hampshire led faculty members on an introductory workshop on utilizing STELLA[®] and how to implement it in the classroom.

STELLA[®] is a software package for building and simulating models of dynamic systems and processes. The developer constructs a map of a process or issue of any kind which allows the user a practical way to dynamically visualize and communicate how complex systems and ideas really work.

Institutions participating included:

- Delaware State University
- Virginia State University
- Elizabeth City State University
- Spelman College
- Norfolk State University



Congratulations

2007 Student Research Winners



Paper Presentations

First Place

Jackye Wesley (right)
Florida A&M University

Second Place

Bryce Carmichael (left)
Elizabeth City State University



CALL FOR PARTICIPATION

ADMI 2008 - "Securing Tomorrow"

The Symposium on Computing at Minority Institutions • April 3 – 6, 2008, Virginia Beach, VA
symposium@admi.us

ADMI 2008

This unique conference showcases innovative graduate and undergraduate research and provides a forum to disseminate and discuss initiatives designed to increase the numbers of minority computer scientists and computer engineers, and activities being utilized by institutions that serve minority populations.

Faculty Papers

A special emphasis is placed on original research papers and posters. An important area of interest for this Symposium is Information Assurance and Computer Security. Papers on this topic will be given priority. Submissions concerning (but not limited to) the following topics are invited:

Educational Program Components

- Developing curricula and models of education especially relevant to minority populations
- Involving students in information assurance research
- Mentoring
- Graduate education

Grants

- Expanding faculty and student research
- Partnerships with major research institutions
- Research & instruction infrastructure

Development of Alliances

- Partnerships with contractors and agencies
- Collaboration among ADMI institutions

Student Papers

Topics may include any area of computer science or computer engineering. Research papers and posters in any area or application of computing that are authored by minority graduate or undergraduate students are strongly sought. Faculty advisors and advisor email addresses must be indicated on the student paper abstracts.

Author Registration

All authors must register for the Symposium and pay all fees.

Submission of Papers and Posters

To submit a paper (faculty and students), an electronic version of the full paper in Microsoft Word that includes a title, author's name and affiliation, author's e-mail address, whether the paper is intended for a faculty or student session, and keywords describing the exact topic must be submitted to <http://admi.us>. The full paper must be received and camera-ready electronic copy of the paper must be submitted. Authors will be notified of the review committee's decision. Accepted papers, including abstract, must rigorously adhere to the ADMI format for publication. The format is available at the conference website <http://admi.us>.

Student Posters

To submit a poster (students only), an electronic version of a one-page extended abstract in Microsoft Word that includes a title, author's name and affiliation, author's e-mail address, and keywords describing the exact topic must be submitted by Jan 18, 2008 to <http://admi.us>.

Travel Support

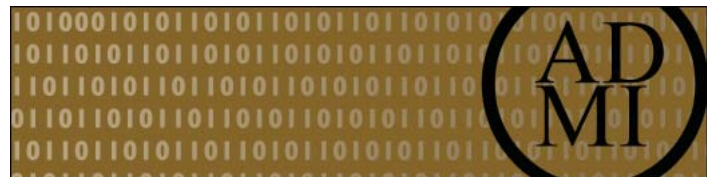
Funding for assistance with travel expenses for participants will be available. Priority shall be given to student authors who do not have other sources of travel funding. A request for support must accompany the abstract.

Important Dates

- Online Registration start date Oct 5, 2007
- Early Registration End Date Feb 22, 2008
- Paper Submission Jan 31, 2008
- Paper Acceptance Notification Feb 14, 2008
- Final Camera Ready Submission Feb 29, 2008
- Poster Abstract Submission Jan 31, 2008
- Poster Acceptance Notification Feb 14, 2008

Symposium Co-Chairs

Mr. Robert Willis, Hampton University
Dr. Thorna Humphries, Norfolk State University
Dr. Alfred Watkins, Spelman College
Dr. Linda Hayden, Elizabeth City State University



MEMBERSHIP INFORMATION

For Individuals at Member Institutions: \$25

\$5 discount if your institution is an ADMI member

Individual Annual Membership Fee: \$ 30

For period: September 1 – August 31

Please download the membership/renewal form at:
<http://www.admi.us/admi-membership.pdf>
and mail to:

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