

# Research Week 2012

# VIKING

*Science*

*Technology*

*Engineering*

*Mathematics*



**Mathematics and Computer Science**  
**Pharmacy and Health Professions**  
**Chemistry, Geology, and Physics**  
**Technology**  
**Biology**

For more information contact:

Lila R. Gonzales, Executive Assistant, School of Mathematics, Science and Technology  
401 Jimmy R. Jenkins Science Center Campus Box 970 Phone: (252) 335-3913 Fax: (252) 335-3664 [lrgonzales@mail.ecsu.edu](mailto:lrgonzales@mail.ecsu.edu)

<http://nia.ecsu.edu/ur/1112/rw12/>

**February 6 - 10, 2012**

# School of Mathematics, Science and Technology

**Dr. Ali Khan**  
Vice Chancellor for Academic Affairs  
(252) 335-3291 aakhan@mail.ecsu.edu

**Dr. Harry Bass**  
Dean, School of Mathematics,  
Science and Technology  
(252) 335-3189 hsbass@mail.ecsu.edu

**Dr. Linda Bailey Hayden**  
Director, Center of Excellence in Remote  
Sensing Education and Research  
(252) 335-3696 haydenl@mindspring.com



The School of Mathematics, Science and Technology (MST) welcomes all of the honored guests and participants to the 8th Annual Research Week 2012. This week will enable the Elizabeth City State University family, the citizens of Elizabeth City, and surrounding counties to participate in informative presentations by student researchers and their mentors, workshops and seminars featuring government officials, and private industry representatives. There also will be outstanding demonstrations from departments within the School of Mathematics, Science and Technology and from scientific organizations.

This year's theme is Viking STEM (Science Technology, Engineering and Mathematics). As the School of MST keeps in line with one of President Obama's initiatives, "Educate to Innovate" where one of the objectives is to inspire student's appreciation and excitement for STEM education. The participants in Research Week 2012 have demonstrated the reality of this initiative and we invite you to visit as many presentations, lectures and demonstrations as possible during this week.

I would like to acknowledge all those individuals involved, for the coordination of Research Week 2012 as it is not an easy task. I extend special thanks to all guest for taking time out of their busy schedules to participate in this event as well as the Research Week Committee, faculty, staff, and the office of Academic Affairs. I would also like to thank all of our presenters for sacrificing time out of their busy schedules to participate in this event.

**Dr. Harry S. Bass, Dean, School of Mathematics, Science and Technology**



On behalf of the Students, Faculty & Staff at Elizabeth City State University, I would like to welcome all participants to Research Week 2012 at Elizabeth City State University. This year's theme, "Viking STEM," recognizes the emphasis placed on undergraduate research coupled with faculty development. These partnerships provide a thrust of new talent into the Science, Technology, Engineering, and Mathematics fields providing an avenue of advancement for those often left behind. ECSU's various world renowned research efforts have allowed students and faculty to travel to all parts of the globe to expand and share their knowledge. This year's event brings representatives from graduate programs, professional schools, state and federal agencies, and various departments from within our own university to offer information about internships, research collaborations, and various

RESEARCH WEEK COMMITTEE	
Dr. Linda Hayden.....	Chairman
Dr. Darnell Johnson.....	Math & CS
Dr. Gary Harmon .....	Biology
Dr. H. Leon Pringle .....	Biology
Dr. Margaret Young.....	Biology
Dr. Kassim Traore.....	Chem, Geo & Phy
Dr. Gloria Payne .....	Biology
Dr. Innocent Ononiwu.....	Pharmacy
Ms. Lila Gonzales.....	MST
Ms. Kenya Hinton .....	Math & CS



graduate programs from throughout the country. It is our hope that the panel discussions, seminars, poster presentations, and displays will engage your interest to seek out further information regarding the Viking STEM research fields existing at ECSU. Serving students well is the core of our mission and the goal of all our efforts. We take pride in the accomplishments of our faculty, students and staff in scholarly activities and competition for external resources. We must advance the university's research agenda, invest in promising new initiatives, and optimize research support services as we look forward to the continued successes and recognition that our university so richly deserves.

**Dr. Ali Khan, Provost and Vice Chancellor for Academic Affairs**

## AFFILIATED PROGRAMS

**Center of Excellence in Remote Sensing Education and Research (CERSER)**  
Dr. Linda Hayden..... (252) 335-3696.... haydenl@mindspring.com

**NOYCE Scholars**  
Dr. Farrah Chandler..... (252) 335-3544... fjchandler@mail.ecsu.edu

**Planetarium**  
Dr. Sultana Khan..... (252) 335-3759..... sakkhan2@mail.ecsu.edu



# Research Week - Schedule of Events

## Monday, February 6

- ✦ **Opportunities for Undergraduates**  
Jenkins Science Center, Room 138, 11 am  
Presiding: Dr. Maurice Crawford  
Welcome: Dr. Harry Bass  
Comments: Chancellor Willie Gilchrist
  - Ms. Darryl Monteau  
CReSIS KU Education Coordinator  
"Preparing for Graduate School"
  - Mr. Mike Jefferson, ECSU Graduate Student  
"ECSU Ice Shelf Project"
- ✦ **Department and Research Project Displays**
  - Jenkins Science Center, Lobby, Noon
- ✦ **2012 Opportunities**  
Jenkins Science Center, Room 138, 2 pm  
Presiding: Dr. Ephraim Gwebu
  - Dr. Thomas Windham  
Education and Diversity Consultant  
2000 PAESMEM Awardee
  - Mr. Kelvin Turner, Jr.  
EMHIRT Representative
  - Ms. Sandra Saldaña  
Incorporated Research Institutions for Seismology

## Tuesday, February 7

- ✦ **Research Partnerships I**  
Jenkins Science Center, Room 138, 11 am  
Presiding: Dr. Victor Adedeji  
Dr. Claudia Rankins - National Science Foundation  
"Role of HBCU's"  
Dr. Steve Hale, University of New Hampshire
- ✦ **Signing of MOU with SeaSpace - Noon**  
Presiding: Linda Hayden, CERSER Director  
Remarks by Chancellor Willie Gilchrist  
Remarks by Hyong Ossi, SeaSpace President & CEO  
Remarks by Charles Luther, Past President IEEE-GRSS
- ✦ **Research Partnerships II**  
Jenkins Science Center, Room 138, 2 pm  
Presiding: Dr. Kassim Traore & Ms. Patricia Gibbs  
Dr. Barry Zirkin, Johns Hopkins University  
Mr. Brad Haas, Department of Education
- ✦ **Remote Sensing Seminar**  
Dixon-Patterson Hall, Room 229, 5 pm  
Presiding: Dr. Linda Hayden  
Mr. Eric Baptiste  
SeaSpace Director of Civil Space & Special Project  
"Remote Sensing Satellites & Future Imaging Platforms"

## Wednesday, February 8

- ✦ **Major African-American Scientists and Inventors**  
Lane Hall, Room 105, 10 am  
Presiding: Dr. Kenneth Jones  
Dr. Yolanda Anderson.....Math & Computer Science  
Mr. Orestes Gooden.....Aviation/Technology  
Dr. Gloria Payne.....Endowed Chair-Biology
- ✦ **Major African-American Scientists and Inventors**  
Jenkins Science Center, Room 138, 1 pm  
Presiding: Dr. Ronald Blackmon  
Dr. Althea Bluiett..... Physics  
Ms. Sheryl Bradford .....Biology  
Dr. Dolapo Adedeji ..... Pharmacy

## Thursday, February 9

- ✦ **MST Research Lecture I**  
Lane Hall, Room 105, 10 am  
Presiding: Dr. Farrah Chandler  
Mr. Carl Seward  
"Becoming a STEM Educator in the 21st Century"
- ✦ **MST Research Lecture II**  
Jenkins Science Center, Room 138, 2 pm  
Presiding: Dr. Victor Adedeji  
Dr. Suely Black, NSU Center for Materials Research  
"Becoming a Professional during Your Undergraduate Years"
- ✦ **MST Science Bowl Competition**  
Jenkins Science Center, Room 138, 3 pm  
Presiding: Drs. Leon Pringle, Gary Harmon, Gloria Payne

## Friday, February 10

- ✦ **Student Poster Session**  
Ridley Student Complex  
Presiding: Dr. Margaret Young  
Poster Judging 8:30 - 10 am  
Poster Public Display 10-11:45 am
- ✦ **Secondary School Outreach**  
Ridley Student Complex, 9 am  
Presiding: Dr. Darnell Johnson  
  
Department Displays  
Demonstrations by:
  - Virginia Air and Space Center
  - Center for the Remote Sensing of Ice Sheets
  - Upward Bound Program
  - Aviation Science
  - Port Discover
- ✦ **Distinguished Lecture**  
Burnim Fine Arts Center, 12 Noon  
CMSGT Grant Williams, Original Tuskegee Airman  
Presiding: Dr. Ali Khan

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## DEPARTMENTS/CHAIRPERSONS

**Biology** ..... Dr. Jeffrey Rousch ..... (252) 335-3244, jrousch@mail.ecsu.edu  
**Chemistry, Geology and Physics** ..... Dr. Ephraim Gwebu ..... (252) 335-3233, etgwebu@mail.ecsu.edu  
**Technology** ..... Dr. Kuldeep Rawat ..... (252) 335-3846, ksrawat@mail.ecsu.edu  
**Mathematics and Computer Science** ..... Dr. Farrah Chandler ..... (252) 335-3544, fjchandler@mail.ecsu.edu  
**Pharmacy and Health Professions** ..... Dr. Kassim Traore ..... (252) 335-3641, ktraore@mail.ecsu.edu

