Dear Participants:

Greetings and welcome to Elizabeth City State University. We are excited about your participation in our first university research week. Our theme for this week is Endless Possibilities as we join the many institutions across the nation in celebrating exploration of ideas. Our faculty has worked tirelessly to make the sessions engaging and to provide you with a wealth of knowledge.

We are extremely honored to have representatives from the National Aeronautics and Space Administration (NASA), University of New Hampshire, Indiana University, and Elizabeth City State University alumni who have joined us to lead the various sessions. Sharing of their vast experience is greatly appreciated.

Elizabeth City State University continues to strive for excellence guided by our Path to Prominence. You are encouraged to take full advantage of the intellectual resources available to you during this week.

Thank you again for joining us and for helping to make this initiative a great success.

Stacey Franklin Jones, Ph.D.
ECSU Chancellor

NSF HBCU-UP HRD 1137571 - Dr. Ali Khan PI, Dr. Harry Bass Co-PI
NSF HBCU UP Targeted Infusion Project ALEMIE - NSF # 1238574, Dr. Eyualem Abebe, PI - NASA ESTEEM NNX11AM97A
CReSIS - NSF FY 2005-108CM1, Dr. Linda Hayden - Center of Excellence in Remote Sensing Education and Research (CERSER)
G. R. Little Library - ECSU Noyce Scholars Program - NSF #1035454, Dr. Farrah Ward, Principal Investigator - AaA REU, NSF REU ANT-0944255
Schedule of Events

Monday April 13, 2015 - NASA Day

∞ Department Displays
9:00 am - 1:30 pm, Lobby, Jenkins Science Center
Presiding: Dr. Jeanette Morris

∞ Opening Session
10:00 - 10:30 am, Room 138, Jenkins Science Center
Presiding: Dr. Harry Bass
Welcome: Dr. Stacey Franklin Jones, Chancellor
The Occasion: Dr. Flora Brown, Provost

∞ NASA Opportunities Seminar
10:30 am - 12 noon, Room 138, Jenkins Science Center
Presiding: Dr. Darnell Johnson
Joelletta Patrick, NASA Minority University Research Program (MUREP) Manager
Janet E. Sellars, Director NASA LaRC Office of Education

∞ 12 noon – 1:30 pm Refreshment Break by VESTEM

∞ NASA Strategy Session
2:00 - 3:00 pm, Room 107, Gilchrist Educational Building
Presiding: Dr. Linda Bailey Hayden
Dr. Stephen Hale, University of New Hampshire, ESTEEM
Dr. Edmond Koker, Comp. Chemical (AMES)
Mr. Ed Swindell, (Drones) CERSER

∞ NASA Classroom Visitations
2:00 - 4:00 pm, Room 228, Dixon-Patterson Hall
Presiding: Mr. Orestes Gooden
Mr. Roger Hathaway’72, NASA Langley MSI Liaison Officer
Mr. Samuel James’87, Mechanical Eng Tech, NASA LaRC

∞ NASA Exhibit and Open House
2:00 - 5:00 pm, G.R. Little Library
Presiding: Dr. Juanita Midgette Spence
Refreshments

Tuesday April 14, 2015

∞ Oral Student Research Presentations I
9:00 - 10:50 am, Room 103 Pharmacy Complex
Presiding: Dr. Anthony Emekalam

∞ Web Development Workshop by the MIS Club
2:00 - 3:30 pm, Room 158, Williams Hall
Presiding: Dr. Anupam Nath
Refreshments

∞ Student Performance
3:30 - 4:15 pm, Burnim Fine Arts Auditorium
Presenter: Chela Faulkner

∞ Graduate Success Seminar I
5:00 - 6:30 pm, Room 226, Dixon Patterson Hall
Presiding: Dr. Linda Bailey Hayden
 Featuring: Jerome Mitchell’07, Indiana University
Ryan Lawrence’13, University of New Hampshire
Dr. Napoleon Paxton’05, Naval Research Laboratory
Refreshments

∞ ECSU Jazz Festival
7:30 pm, Burnim Fine Arts Auditorium
Presiding: Dr. Jeanette Morris
US Navy Commanders Jazz Ensemble

Wednesday April 15, 2015

∞ Internship Roundtable I
10:00 - 10:50 am, Room 204, Pharmacy Complex
Presiding: Dr. Eyualem Abebe and Dr. Cheryl Lewis
Featuring: Makitta Whitehurst-McLean

∞ Oral Student Research Presentations II
1:00 - 1:50 pm, Room 138, Jenkins Science Center
Presiding: Dr. Shyamal Das

∞ Supporting Faculty Research (For Staff)
3:00 - 4:50 pm, Room 104, McLendon Hall
Presiding: Dr. Confidence W. Amadi
Featuring: Sponsored Programs Staff

∞ Music Performance
7:30 - 9:00 pm, Burnim Fine Arts Auditorium
Presiding: Dr. Shawnya Harris
Featuring: Marcus Anderson, Saxophonist for Prince
Free for Students, $10 for all others

Thursday April 16, 2015

∞ Graduate Success Seminar II
11:00 am - 12:20 pm, Room 121, ITC
Presiding: Dr. Debjani Kanjilal

∞ STEM in Pre-School Years Demonstration
12:30 - 1:50 pm, Room 204, Gilchrist Educational Building
Presiding: Dr. Delbert Garnes
Featuring Dr. Natasha Spellman

∞ MUS 101 Student Recital Presentations
3:00 - 4:50 pm, Burnim Fine Arts Auditorium
Presiding: Dr. Shawnya Harris

∞ ECSU History Presentation
3:30 pm, 2nd Floor Boardroom, G. R. Little Library
Presiding: Dr. Juanita Midgette Spence
Featuring: Dr. Glen Bowman, Professor of History
Refreshments

∞ Junior Recital Presentation
7:30 - 9:00 pm, Burnim Fine Arts Auditorium
Presiding: Dr. Shawnya Harris
Featuring: Matthew Evans

Friday April 17, 2015

∞ STEM Outreach Hands-on Seminars
9:30 am - 2:00 pm, Jenkins Science Center
Presiding: Dr. Margaret Young

∞ Student Research Poster Session
11:00 am - 1:00 pm, Williams Hall Gym
Presiding: Dr. Darnell Johnson and Dr. Velma Blackmon

∞ Internship Roundtable II
2:00 - 3:00 pm, Room 216, Ridley Student Center
Presiding: Dr. Joy Smith

∞ Student Activities Day
2:30 - 4:30 pm, 2nd Floor Boardroom, G. R. Little Library
Presiding: Ms. Jenny Snyder

∞ Business Student Recognitions
3:30 - 5:00 pm, Room 216 Ridley Student Center
Presiding: Dr. Narendra Sharma
Refreshments
Welcome!

On behalf of the students, Faculty and staff at Elizabeth City State University, I would like to welcome all participants to Research Week 2015 at Elizabeth City State University. This year’s theme, “Endless Possibilities” recognizes the emphasis placed on undergraduate research coupled with faculty development. These partnerships provide a thrust of new talent into all academic 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 bring representatives from graduate programs, professional schools, state and federal agencies, and various departments from within the university to offer information about internships, research collaborations, and various graduate programs 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 undergraduate research.

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.

Flora Brown, Ph.D.
Interim Vice Chancellor for Academic Affairs

RESEARCH WEEK COMMITTEE

Harry Bass Jr. .................Interim Associate Vice Chancellor
Linda Hayden, Chair.... Mathematics and Computer Science
Farrah Jackson Ward ...Mathematics and Computer Science
Darnell Johnson.....................Education and Psychology
Delbert Barnes .......................Education and Psychology
Natasha Spellman .....................Education and Psychology
Eyualam Abebe .....................Natural Science
Gloria Payne..........................Natural Science
Margaret Young ..........................Natural Science
Anthony Emekalam ......Pharmacy and Health Professions
Confidence W Amadi..............Business and Economics
Debjani Kanjilal...............Business and Economics
Yan Jin................Business and Economics
Shyamal Das ................Social and Behavioral Sciences
Charles V. Reed ................Social and Behavioral Sciences
Shawnya Harris ................Visual and Performing Arts
Boung Jin Kang ..............Physical Education and Health
Orestes Gooden ......................Technology
Jeanette Morris...... Language, Literature & Communication
Velma Blackmon......................Honors Program

Oral Presentations I
9-10:50 am, Room 103, Pharmacy Complex

Application of Remote Sensing Equipment in Wind Resource Assessment
White, S.

Downtown Elizabeth City
Seifer, C.

Enrichment of Pristaine Degrading Bacteria Present in Uncontaminated Soil
Midgett, J.

Green Marketing and Consumer Behavior
Jenkins, T.

How the agile process effects different generations?
Pittman, T., Pope, L.

Optical and Electrical Properties of Vanadium Dioxide (VO2) thin film doped
Agapayong, A.

Population Dynamics
Shaw, J.

Real-Time Data Acquisition and Structural Health Monitoring System
Harrison, G.

Understanding the Role of Functional Divisions in Effective System Analysis & Design
Fitts, C., Neal, K., Roach, L.

Which development strategy would be best to create the ultimate social networking site for students?
Shaw, J., Warren, Q.

Oral Presentations II
1-1:50 pm, Room 138, Jenkins Science Center

Hinduism and Daoism: A comparative review of the ethical issue, Abortion
Pettaway, K.

Homicide Rates in Islamic Societies: Does Culture Affect?
Simpson, E., Spencer, S., Tann, T., Whitaker, V., White, A.

Human Development in Islamic Societies: Does Culture Affect?
Gatling, A., Glasper, L., Harvey, B., Henry, S., Knight, S.

States of Women in Islamic Societies: Does Culture Affect?
Barco, J., Blowe, J., Chapman, K., Felton, D., Garris, A.

Status of Access to Health Care in Islamic Societies: Does Culture Affect?
Lee, D., Mallory, T., Melton, R., Pettaway, K., Phillips, G., White, T.

Poster Presentations
Friday, April 17, 2015, 11 am -1 pm, Williams Hall Gym

24 hour Daycare
Foster, J., Hansson, I., Jenkins, T., Smith, K., Watts, C.

A Project Management Framework for Cloud and HPC Resource Providers
Ridgeway, J.

Accounting firm need analysis
Eaton, R.

After School Math and Science Tutorial Services (ASMASTS)
Beale, T., Bolden, D., Hyman, B., Roebuck, D., Riche, B.

Analyzing the Security Infrastructure of the Android Operating System
Morris, D.
Poster Presentations (continued)

Apache Big Data Stack
Matthews, T.

Application of Meteorological Tower in Wind Resource Assessment
Fitts, C.

Arsenic Levels in United States Drinking Water and the Resulting Incidence Rates for Bladder and Lung Cancers/Impact of Cell Phone Use and Secondary Effect on Non-Users and the Level of its Distraction
Smith, S.

Bioremediation of Copper by the Herb Centaurea cyanus, Elemental Tissue Analysis and Effects of Copper on Total Protein and Chlorophyll Levels
Toney, S.

Calibration of hyperspec VNIR imaging sensor to assist in nanopartical predictions
Headen, J.

Can Microsoft Hololens Maintain a Competitive Advantage with Augmented Reality?
Condrel, J., Mitchell, B.

Caspase Activation in U937 cells by Pentachlorophenol Ebron, A.

Change by Design
Boyd, A.

Comparison of Decadal Sea Surface Temperature and Salinity Trends Between the ALOHA and BATS Stations.
Valenski, S.

Configuring and Customizing the Hubzero Experience
Guion, A.

CubeSat Coronagraph
White, S.

Curcumin Protects Manganese-Induced Neurotoxicity in Astrocytes
Bullard, R., Raulerson, A., Thomas, T., Vinson, C.

DNA Fragmentation and p53 Activation in U937 Cells by Pentachlorophenol
Egbuna, C.

Do we need a full-function recording company in Elizabeth City?
Hoskins, M.

Downtown Elizabeth
Seufer, C.

ECSU Fine Arts Commercial
Watkins, M.

Effects of Paromomycin on Self and Cross Pollinated Cultivars of Wisconsin Fast Plants
Bell, D., Cole, C., Williams, J.

Enhancing Parent Involvement in NC-CCSS for K-2 Mathematics
Hathaway, J., Kahan, W., Reynolds, A., Williams, R.

Enrichment of Diesel-Degrading Bacteria in Uncontaminated Soil
Wilmot, R.

Enrichment of Gasoline Degrading Bacteria Present in Uncontaminated Soil
Valenski, S.

Evaluating the Performance of MPI Java in FutureGrid
Pugh, N.

Health Disparities in United States
Brooke, R.

How Costco’s Strategy has led to it out performing Walmart and Target
Lumsden, D.

Impact of 9/11 on the office space demand and supply in New York City
Hansson, I., Johnson, T.

Implementation of an Interactive Database Interface Utilizing HTML, PHP, and MySQL in support of water quality assessments in the Northeastern North Carolina Pasquotank Watershed
Burton, K., Guion, A., Hodgkins, H., Morris, D.

J. C. Penney and the Hispanic Consumer
Cooper, D., James, T.

Monitoring Pocosin Lakes Wildlife Refuge Regrowth Using Arc GIS and Landsat Images
Curlings, T.

Morphological Analysis of Contamination in solid-phase nutrient agar microbial cultures using the scanning electron microscope.
Wilmot, R.

Nike and the Minority Consumer
Bolden, D., Horton, M.

Optical and Electrical Properties of Vanadium Dioxide (VO2) thin film doped with niobium (Nb)
Patel, T.

Results Gym: change the people’s lifestyle
Batts, S., Norris, L.

Retailing Companies that use prominent strategies in order to accommodate diversity amongst consumers
Vaughan, A.

Scanning Electron Microscope (SEM)
Dutton, D.

The Elizabeth City State University’s “I am my family’s health support” community project: An African American chronic health disparities intervention program
Jones, B., Pearson, T., Pickett, T.

The Morphological Effects of Chloroquine on Early Development of White Leghorn Chickens
Wofford, A.

The Panther Water Car
Appadu, J., Davis, T., Welch, N.

The Use of Parallelization Support to Speed up PlotViz3
Satchell, K.

The Use of Sodium Butyric Acid as a Mutagon for Wisconsin Fast Plants (Brassica rapa)
Carmack, J.

Treatment for Diabetes Mellitus Type 2
Boston, J.

Update of the CERSER TeraScan Cataloguing System TeraScan Image Processing Scripts
Wilbon, T.