

Equipping Today's Students for Tomorrow's Challenges



Dr. James Johnson, Jr.

William R. Kenan Jr. Distinguished Professor of Strategy and Entrepreneurship and Director, Urban Investment Strategies Center, UNC- Chapel Hill

ELIZABETH CITY STATE UNIVERSITY UNDERGRADUATE

RESEARCH WEEK 2019

APRIL 1-5

Margaret Wood

Institute for Emerging Issues



CENTER OF EXCELLENCE IN REMOTE SENSING EDUCATION AND RESEARCH
Global Learning and Observation to Benefit the Environment



GLOBE Workshop for STEM Teachers

Opening Speaker, Dr. Lin Chambers
NASA Langley Research Center

The Global Learning and Observation to Benefit the Environment (GLOBE) program is a worldwide hands-on, primary, and secondary school-based science and education program.

Open to K-12 STEM Teachers

April 5, 2019, 5:00-8:00 pm

April 6, 2019, 9-4:30 pm

Room 229, Dixon-Patterson Hall
Elizabeth City State University

CERSER

1704 Weeksville Road, Box 672
Elizabeth City, NC 27909
Phone (252) 335-3977
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The Global Learning and Observations to Benefit the Environment (GLOBE) Program is an international science and education program that provides students and the public worldwide with the opportunity to participate in data collection and the scientific process, and contribute meaningfully to our understanding of the Earth system and global environment. Announced by the U.S. Government on Earth Day in 1994, GLOBE launched its worldwide implementation in 1995.

Vision: A worldwide community of students, teachers, scientists, and citizens working together to better understand, sustain, and improve Earth's environment at local, regional, and global scales.

Mission: To promote the teaching and learning of science, enhance environmental literacy and stewardship, and promote scientific discovery.

The **GLOBE** Program



MONDAY APRIL 1, 2019
OPENING CEREMONY

10:00-10:15 am: Rm 138, Jenkins Science Center
Presiding: Dr. Farrah Ward, Interim Provost and Vice
Chancellor for Academic Affairs & Dr. Margaret Young,
Director of Undergraduate Research

Welcome: Chancellor Karrie Dixon &
Dr. Farrah Ward, Interim Provost and Vice Chancellor
for Academic Affairs

**Dissecting Driver Behaviors under Cognitive,
Emotional, Sensorimotor, and Mixed Stressors**

10:15 - 11:00 am: Rm 138, Jenkins Science Center
Presenter: Dr. Malcom Dcosta, Math and Comp Science

Office of Sponsored Program Event
Tips for Strengthening your STEM- and STEM
Education Research Grant Submissions

1:00 – 3:00 pm: Rm 104, McLendon Hall
Presiding: Ms. Annmarie Delgado
Presenter: Dr. Falcon Rankins

EDUCATION DAY

**Sustainability, Climate Change Beliefs,
Ecocentrism, and Physical Activity: Driving**
between Classes

3:00 – 3:50 pm: Rm 107, Gilchrist Complex
Presenters: Dr. Scott Bradshaw and Dr. Kacey
DiGiacinto

OPENING RECEPTION AND PLENARY
SESSION

5:30 - 7:00 pm: Lobby and Rm 138, Jenkins Science
Center
Presiding: Dr. Coray Davis, Associate Vice Chancellor
for Academic Affairs & Mr. Russell Haddad, Director of
Community and Economic Engagement, in association
with Elizabeth City Chamber of Commerce
Remarks: Chancellor Karrie Dixon
Keynote Speaker: Ms. Margaret Wood (Institute for
Emerging Issues)
How Local Business can ReConnect to Community

TUESDAY APRIL 2, 2019
STEM DAY

Student presentations

11:00 – 12:20 pm: Rm 104, Lane Hall
Presiding: Dr. Kenneth Jones

An Uphill Task to the Cryptanalysis of the Hill
Cipher (11:00 – 11:20)

Presenter: Joselyn Hathway (Dr. D. Sengupta, Advisor)

Design a Machine Learning Tool to Identify the
Anomalous Residues in a Protein Solved from
Cryo-EM (11:20 – 11:40)

Presenters: Mitchell Sheep (Computer Science), Brandon
Baker (Biology), Eduardo Santos (Biology) [Dr. D.
Chen, Advisor]

Using Physiological Feedback Loop to Help
Subjects Relax Before Psycho-Physiological
Experiments (11:40 – 12 noon)

Presenter: Tera Banks (Dr. M. Dcosta, Advisor)

Does Working in a Virtual Environment to do
Focused Tasks Requiring Cognitive Attention Help
Improve Task Performance? (12 noon – 12:20)

Presenter: Matthew Hill (Dr. M. Dcosta, Advisor)

Clary Sage: How Plant Breeding in Northeast NC
Helps the World Smell Good

1:00 – 2:00: Rm 125, Jenkins Science Center
Presiding: Dr. Margaret Young
Presenter: Dr. Christine Bradish, AVOCA Farms, NC

Computer Science and STEM Career Fields for
Future Prospects

2:00 – 3:00 pm: Rm 104, Lane Hall
Presiding: Ms. Usha Kulkarni
Presenter: Dr. Samuel Olatunbosun, Norfolk State
University

Electron Microscopic Analysis of Distal Ejecta
Impact Proxies from a Variety of Recent Cosmic
Impact Events on Earth.

3:00 – 4:00 pm: Rm 200, Pharmacy Complex
Presiding: Dr. Victor Adedeji
Presenter: Dr. Malcom LeCompte (CERSER)

WEDNESDAY APRIL 3, 2019
BUSINESS AND ECONOMICS DAY

Income Levels, Inequality, and Religious
Denominations in Selected Industrialized
Countries: A Longitudinal Analysis

9:00 –9:50 am: Rm 204, Gilchrist Complex
Presiding: Dr. Shyamal Das
Presenters: K'kobe Brooks, Jalyn Brown, Whitlei Cason,
Leah Collins, Christopher Crane, Daniela Garcia, Carlee
Goldston, Jacob Jackson, De'andrick Johnson, Tayla
Jones, Nicholas Small, LaVen Swain, Elijah Washington
and Renada White (SOC 202 students)

Social Media Effect on Internal Competition

11:00 – 11:30 am: Rm 114, Williams Hall
Presiding: Dr. Alex Ogwu
Presenters: Robert Boone and Zhiasia Bazemore (Dr.
Kungpo Tao – Advisor)

E and M-Commerce for Local Business

11:30 –12 noon: Rm 114, Williams Hall
Presiding: Dr. Alex Ogwu
Presenters: Devonte Stewart and Tynisha Mitchell (Dr.
Kungpo Tao – Advisor)

The Effect of Ethical Leadership on Organizational
and Employee-level Outcomes: A Literature Review

1:00 – 1:30 pm: Rm 114, Williams Hall
Presiding: Dr. Alex Ogwu
Presenters: Vance Maxey and Todd Barker (Dr. Ali Unal
– Advisor)

A Cross-Cultural Examination of Paternalistic
Leadership Style

1:30 – 2:00 pm: Rm 114, Williams Hall
Presiding: Dr. Alex Ogwu
Presenters: Ceren Bekci and Tynisha Mitchell (Dr. Ali
Unal – Advisor)

Using PBL and Ice House: Business Plans that
Solve Problems: A Forum

2:00 - 2:30 pm: Williams Hall Lobby
Presiding: Dr. Joy Smith
Presenters: Penelope Royal, William Williams, and
classmates (BUAD 322 students)

WEDNESDAY APRIL 3, 2019
KINESIOLOGY AND PUBLIC HEALTH DAY

Kinesiology Forum

1:00 – 3:00 pm; Rm 102, Pharmacy Complex
Presiding: Dr. Jennifer Brown

An Evaluation of Screening Tools for Type 2
Diabetes in an HBCU Population in Northeastern
North Carolina

Presenters: Jennifer J. Brown, Juan Fabian, Caitlin
Patterson, Demond Holley, Trevian Long

Reaction Time of NCAA Athletes and Sedentary
Individuals

Presenters: Jordan Ownley, Demond Holley, Dejah
Roberts, Dion McDonald

A Survey of HBCU Nutritional Habits, Attitudes
About Health and Risk Perception

Presenters: Jennifer J. Brown, Trevian D. Long, Jonquin
L. Elliott, Kelly N. Brewer, Demond L. Holley, Samara
D. Hauser

Nutritional Habits of Division II Football Players

Presenters: Donovan Silver, Corey Cherry, Reed Haskett,
Caitlin Patterson, Demond Holley, Deabrie Smith,
Dearrius Payne

THURSDAY APRIL 4, 2019
FINE ARTS AND HUMANITIES DAY

Student Interactive Events - Audio, Visual, and
Textual Events Designed to Reimagine and Rewrite
a Space

All day: Johnson Hall
Presiding: Dr. Adam McKee and Dr. James Goar
Presenters: ECSU students and the community

NC Coast and Climate Change

10:00 – 11:45 am: Rm 204, Gilchrist Complex
Presiding: Dr. Timothy Goodale
Presenters: Dr. Mike Piehler: Director, UNC Institute
for the Environment (UNC-Chapel Hill) and Dr. Robert
Y. George, George Institute/CERSER

**Erroneous Features in Freehand Sketching:
Opportunities to Generate Visual Analogies**

1:00 – 2:00 pm: Rm 133, Fine Arts Complex
Presiding: Mr. Clarence Goss, Jr and Mr. Eric Luchian
Presenters: Mr. Eric Luchian

**Roots of Education: Development of a Campus
Heritage Trail**

2:00 – 3:20 pm: Rm 303, Gilchrist Complex
Presiding: Dr. Latif A. Tarik
Presenters: Kameron Iriate, Eyricka Johnson, Ebony
Ward, Mark Westerman and Aaron Wrighton (HIST 321
students)

**THURSDAY APRIL 4, 2019
FINE ARTS AND HUMANITIES DAY**

An Afternoon of Faculty Scholarship

2:00 – 3:30 pm: Rm 138, Johnson Hall
Presiding: Drs. Adam McKee and James Goar

**Humor in the British Rural Novels of Thomas
Hardy, Mary Webb and Stella Gibbons.** Presenter:
Dr. Bansari Mitra;

**Cultural Intersections: Immigration, Memory,
and the Imagination in the Works of Kingston,
Hijuelos, and Malamud.** Presenter: Dr. Eric Weil

**Drone Writing: Analyzing Calligraphic Performance
as Multimodal Communication.** Presenter: Dr. Walter
Iriarte

**An Intonation Study of the Mexican Expression
órale.** Presenter: Dr. Gabriela del Villar

**African American Beauty through the Lens of
Oscar Wilde.** Presenter: Dr. Mary-Lynn Chambers

**Case Analysis: Utilizing Behavior Modification to
Control Behavioral Issues in Children**

3:30 – 4:30 pm: Rm 203, Pharmacy Complex
Presiding: Dr. Kim S. Downing
Presenters: E’Nedra Sewell and Trianna Moore

**FRIDAY APRIL 5, 2019
UNIVERSITY DAY**

**OPENING CEREMONY AND CONCURRENT
SESSIONS FOR HIGH SCHOOL STUDENTS**

10:00-11:45 am: Vaughan Center and Departments
Presiding: Dr. Margaret Young and Mr. Orestes Gooden

**ECSU POSTER SESSION; INTERACTIVE
DEPARTMENTAL DISPLAYS; ECSU MOBILE
STEM LAB; PLANETARIUM**

GUEST SPEAKER

**Preparation for an Unsparing Global Economy
Dr. James Johnson, Jr**

William R. Kenan Jr. Distinguished Professor of
Strategy and Entrepreneurship and Director, Urban
Investment Strategies Center, UNC- Chapel Hill

12 noon – 1:00 pm: Fine Arts Auditorium
Remarks: Chancellor Karrie Dixon
Presiding: Dr. Coray Davis, Associate Vice Chancellor
for Academic Affairs

Open Mic

5:00 pm: Page after Page Bookstore, 111 S Water St,
Elizabeth City, NC 27909
Presiding: Dr. James Goar and Dr. Adam McKee
Presenter: ECSU students and the community