



GIS/GPS/Remote Sensing Workshop for Faculty, Students, Extension Specialist and Farmers

April 18-20, 2012

**With Funding from the Collaborative USDA Capacity Building Teaching Grant
Delaware State University (Lead Institution)**

***Hosted by:*
Elizabeth City State University**

Wednesday, April 18

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| 6:00 - 8:00 AM | Breakfast – Hotel Restaurant |
| 8:30 – 9:00 AM | Registration, Room 229 Dixon-Patterson Hall |
| 9:00 – 9:30 AM | Welcome and Opening Remarks and Introduction of Participants: Dr. Willie Gilchrist, Chancellor, Dr. Ali Khan, Provost, Dr. Harry Bass, Dean of the School of Math, Science and Technology and Dr. Linda Hayden, Associate Dean, School of Math Science and Technology |
| 9:30 AM – 12:30 | What is GIS? Francisco San Juan
What is GPS? Reginald Fletcher
What is Remote Sensing? Jinchun Yuan |
| 12:30 PM – 2:00 | Lunch (Blue Room) |
| 2:00 – 2:30 PM | Google Earth |
| 2:30 – 5:00 | Hands-on Activity with GPS on ECSU Campus |

6:00 – 8:00 Dinner – nearby Restaurant

Thursday, April 19

6:00 - 8:00 Breakfast – Hotel Restaurant

8:30 – 10:00 Downloading GPS data into Google Earth
Linking Picture/Photos into Microsoft Excel

10:00 - 10:30 Coffee Break

10:30 – 12:00 Image Classification

12:00 – 1:00 Lunch (Blue Room)

1:00 – 5:30 Field Trip to Local Farms for GPS/GIS/RS Demonstration Use (tentative)

6:00 PM Participants return to Hotel

6:30 PM – 8:00 Dinner – nearby Restaurant

Friday, April 20

6:00 - 8:00 Breakfast – Hotel Restaurant

8:30 – 12:00 Ground Truthing/Reflectance Measurements and Image Analysis

10:00 - .10:30 Coffee Break

10:30 – 12:00 Participants make presentations

12:00 – 1:30 Lunch (Box Lunch) and awarding of certificates, Dr. Ali Khan.

Accommodation:

Hampton Inn Elizabeth City
402 Halstead Boulevard, Elizabeth City, NC 27909
Tel: 252-333-1800

Fairfield Inns and Suites, Elizabeth City
1640 City Center Blvd, Elizabeth City, NC 27909
Tel: (252) 333-1003

Rate for ECSU activities: \$89.00 + tax (Hot Breakfast included)

Ten (10) rooms have been blocked for the GIS Workshop in both hotels. Please mention the workshop when you make your reservations.

Parking:

Campus parking permits will be issued to participants upon arrival

Biosketches

USDA ARS Collaborators & Trainers

Dr. Reginald Fletcher is a Research Soil Scientist at Kika De La Garza Agricultural Research Center at Weslaco, Texas. Dr. Fletcher received his Ph.D. in Plant & Soil Science from Alabama A&M University. Dr. Fletcher's research activities include pest management & natural resource management by the application of remote sensing, GIS, & GPS technologies. |

Dr. Jinchun Yuan is an Associate Professor, Department of Chemistry, Geology and Physics t ECSU. He is a marine geochemist that used remote sensing technology as a research tool. He is teaching chemistry, geology and remote sensing courses and has written 10 peer reviewed research papers.

Project Director & Co-Directors

Dr. Gulnihal Ozbay (Project Director) is a Research Associate Professor, Department of Agriculture & Natural Resources at DSU. She is the Project Director of two USDA funded GIS Grants for GIS. Her research is in the areas of Aquaculture & Fisheries with emphasis on water quality, mariculture, nutrient management, habitat restoration, and shellfish food safety. Dr. Ozbay uses GIS for studying the environmental degradation at the Delaware & Inland Bays in Delaware.

Dr. Shobha Sriharan (Co-Project Director) is a Professor, Department of Agriculture & Human Ecology at VSU. She is the former project director of the USDA Grants on Integrating GIS in instruction and current director for the global climate change, training students in writing case studies on global issues & video Conferencing. She is also the project director of the NIH-Bridges Program & NIH EARDA programs. As a NASA Fellow, She has used remote sensing for land cover analysis.

Dr. Francisco San Juan, Jr. (Co-Project Director) is a Professor in the Department of Chemistry, Geology & Physics at ECSU. He is a geologist with a strong background in geochemistry. For 26 years, he has been teaching geology, physical, marine and environmental sciences, GIS and remote sensing. Research projects include NSF funded Enhancement of curriculum for a minor in GIS and Remote Sensing, and NOAA, NSF, USDOE, and Department of the Army grant programs. He is presently interested in using GIS in environmental studies, specially wetlands, and heavy metals in tap water, surface waters and bottom sediments.

Dr. Anupma Prakash (Co-Project Director) is a Professor and Co-Chair of the Department of Geology & Geophysics at UFA. She is a geologist and a remote sensing expert. Her research interest is in using remote sensing and geographic information system (GIS) techniques for mapping Earth surface composition and change. Since coming to Alaska in 2002, she has been involved in a variety of mapping and exploration projects in Alaska. She is keenly interested in using the synergy of different types of remote sensing data (optical, thermal, microwave, lidar, EM etc.) from satellites and airborne platforms for mapping and process modeling.