13th Annual
Soil and Water Science Research Forum
Program

September 7, 2012
Auditorium – J. Wayne Reitz Union

8:30 am – 9:15 am  Registration

9:15 am – 9:30 am  Opening Remarks
Dr. K. Ramesh Reddy, SWSD Chair

9:30 am – 10:30 am  Summertime in the Rocky Mountains: A Biogeochemical Perspective on Climate Change and Water Quality.
Dr. Diane McKnight, Professor
Fellow of the Institute of Arctic and Alpine Research
National Academy of Engineering
Dept. of Civil, Environmental and Architectural Engineering
University of Colorado - Boulder

10:30 am – 10:50 am  Break

SESSION I – Oral Presentations
Auditorium – J. Wayne Reitz Union

10:50 am – 12:30 pm  Invited Faculty Session – Carbon Cycle - Soil, Water, and Environmental Sciences

Session Chair: Dr. James Jawitz

10:50 am – 11:10 am  Coupled Cycles and Life at the Bottom of the Food Chain.
Dr. Andrew Ogram, Professor
Department of Soil and Water Science
University of Florida

11:10 am – 11:30 am  Hydrologic Linkages to Subsurface Carbon Sequestration in Florida.
Dr. Willie Harris, Professor
Department of Soil and Water Science
University of Florida

11:30 am – 11:50 am  Soil Carbon and the Forest Soils Program – Summary and a Perspective on Biochar.
Dr. Nicholas Comerford, Professor
Center Director of North FL. Research and Education Center
Department of Soil and Water Science
University of Florida
Dr. Todd Osborne, Research Assistant Professor  
Department of Soil and Water Science  
University of Florida

12:10 pm – 12:30 pm  Soil Carbon Variability across Large Landscapes.  
Dr. Sabine Grunwald, Professor  
Department of Soil and Water Science  
University of Florida

12:30 pm – 1:30 pm  LUNCH

SESSION II – Oral Presentations
Auditorium – J. Wayne Reitz Union

1:30 pm – 2:30 pm - Graduate Student Oral Presentations

Session Chairs: Jing Hu, Eunice Eshun, and Mary Lusk

Student Presentation (1:30 pm – 1:45 pm):

Particle Matter and Surface Runoff Transports of Copper (Cu) from Land to Water Ways.

Authors: Santanu Bakshi, Zhenli He, and Willie Harris

Student Presentation (1:45 pm – 2:00 pm):


Authors: Rupesh Bhomia, K. Ramesh Reddy, and Delia Ivanoff

Student Presentation (2:00 pm – 2:15 pm):

Arsenic-Resistant Bacteria Solubilized Arsenic and Phosphorus from Insoluble Minerals and Enhanced Plant Growth.

Authors: Piyasa Ghosh, Lena Ma, and Bala Rathinasabapathi

Student Presentation (2:15 pm – 2:30 pm):

Imidacloprid Soil-Drench Application in Young Citrus Trees of Florida: Sorption, Degradation, and Systemic Effects on Asian Citrus Psyllid

Authors: Jorge Leiva, Peter Nkedi-Kizza, Kelly Morgan, and Jawwad Qureshi

SESSION III
Student Presentations – Poster Viewing and Reception

East and West Gallery, J. Wayne Reitz Union
3:00 pm – 4:00 pm **Poster Session I**,  
a. Judging of Even Numbered Posters Will Occur During This Time

4:00 pm – 5:00 pm **Poster Session II**,  
a. Judging of Odd Numbered Posters Will Occur During This Time

**Judged Poster Titles & Authors:**

   *Julius Adewopo, Maria Silveira, and Stefan Gerber*

2. Water Quality Monitoring at Model Watershed Nagulapally-Konapur, Medak District, Andhra Pradesh, India.  
   *Cassandra Admire, Rao Mylavarapu, and Kanwar Sahrawat*

3. Relations of Iron, Aluminum, and Carbon along Transitions from Udults to Aquods.  
   *Chumki Banik, Willie Harris, Scarlett Balboa, Larry Ellis, and Wade Hurt*

4. Bioremediation of DDE, DDD, and DDT in Sandy Soil from Site ZSS3027 in Field ZSE-J in the Lake Apopka North Shore Restoration Area.  
   *Ben Coppenger and Dr. John Thomas*

5. Obtaining Langmuir Parameters from a Soil Test Solution.  
   *Biswanath Dari, Vimala Nair, Dean Rhue, and Rao Mylavarapu*

6. Fate and Transport of Nitrogen in Onsite Wastewater Treatment Systems.  
   *Mriganka De and Dr. Gurpal Toor*

7. Effect of Fertilizer Management Strategies on Color and Quality of St. Augustinegrass.  
   *Rajendra Gautam, George Hochmuth, and Laurie Trenholm*

   *Susanna Gomez, Samira Daroub, Jehangir Bhadha, and Timothy Lang*

   *Swati Goswami, Patrick Inglett, and Kanika Sharma Inglett*

10. A Chemical Risk Reduction Education Program for Residents Living Near the Koppers Superfund Site in Gainesville, Florida.  
    *Julia “Ky” Gress and Lena Ma*

    *Jing Guan and James Jawitz*

12. Nitrogen Use Efficiency of Silage Corn.  
    *Rebecca Hellmuth and George Hochmuth*

    *Jing Hu, Kanika Sharma Inglett, Patrick Inglett, Mark Clark, and K. Ramesh Reddy*
Yuanyuan Huang and Stefan Gerber

Travis Knight and Edward Hanlon

Carlos V. Lopez and Ann Wilkie

Anna Normand and K. Ramesh Reddy

Rishi Prasad, George Hochmuth, and Christopher Martinez

Christopher Wade Ross and Sabine Grunwald

20. Use of Al-WTRs in Ermeable Reactive Barriers to Limit Phosphorus Movement in Groundwater in the Lake Okeechobee Basin.  
William Schmahl and James Jawitz

Harmanpreet Sidhu, Chris Wilson, and George O’Connor

Debjani Sihi, Patrick Inglett, and Kanika Sharma Inglett

Reginald Toussaint and Ann Wilkie

Christine VanZomeren and K. Ramesh Reddy

Sutie Xu, Maria Silveira, and Kanika Sharma Inglett

26. Tracer Tests to Predict DNAPL Storage and Release from Low Permeability Zones.  
Minjune Yang, Michael Annable, and James Jawitz

Non- Judged Poster Titles & Authors:

27. Allelopathic Effects of Aquatic Vegetation on Seed Germination and Root Growth.
28. Detection of Activity and Syntrophic Acetate-Oxidizing Bacteria along a Nutrient Gradient in the Florida Everglades.
   *Michelle Amit, Hee-Sung Bae, Aditi Banerjee, and Andrew Ogram*

   *Nana Y. Amponsah, Jose-Luis Izursa, John Capece, and Edward Hanlon*

   *Scott Edmundson and Ann Wilkie*

31. Response of ‘Floratam’ St. Augustinegrass to Nitrogen Fertilizer and Reclaimed Water Application Rate.
   *Jinghua Fan, George Hochmuth, Jerry Sartain, and Jason Kruse*

32. Predicting the Effects of Climate Change on Everglades Ecosystems.
   *Rajendra Paudel, Carl Fitz, and R. Shrestha*

33. A Study on Cropland Organic Carbon Sequestration in Soil Aggregates of Long-Term Experimental Sites in the Northeast Plain of China.
   *Jiubo Pei, J.K. Wang, H. Li, and Patrick Inglett*