DSSAT 2016

International Training Program
Assessing Crop Production, Nutrient Management, Climatic Risk and Environmental Sustainability with Simulation Models

May 16 - 21, 2016
A Joint Training Program of
DSSAT Foundation
Washington State University
International Fertilizer Development Center
University of Georgia and
University of Florida

ABOUT THE TRAINING WORKSHOP
When the Workshop Begins
The program will start on May 16 and end May 21, 2016. It will be held on the Griffin Campus of The University of Georgia (UGA), located just south of Atlanta, GA. International participants should plan to arrive two days prior to the start of the program to adjust to time zone differences and recover from travel fatigue.

Location and Directions to The University of
Georgia, Griffin Campus
The University of Georgia, Griffin Campus is on the North side of Griffin, GA and the East side of US Highways 19 and 41. You will find explicit directions to the Griffin Campus and other related information on the UGA Griffin Campus web site: campus.griffin.uga.edu/directions.html. When you register for the workshop, we will forward travel directions to you as part of your confirmation package.

Lodging and Accommodations
Two hotels have been designated as preferred hotels. They are the Holiday Inn Express and the Baymont Inn and Suites, located approximately one mile from a local business district and two miles from our campus. They are also located across the highway from each other. Both hotels provide a daily continental breakfast. Rooms have home office accommodations including wireless connectivity, voice mail, and free local calling. Other amenities include cable TV, iron/ironing board, and coffee maker. The special business room rates are $77 per night plus tax for the Holiday Inn Express and $70.00 per night plus tax for the Hampton Inn and Suites. To receive this rate you must make your reservation by calling the Holiday Inn Express in Griffin, GA directly at 770-228-9799 or calling the Baymont Inn and Suites in Griffin, GA at 770-229-8900. In addition to our "preferred" hotels, there are other hotels in Griffin. You must make your own hotel reservations.

Special Needs
If you have any special needs, please let us know in the space provided on the registration form. We will do our best to assist you. Call the Continuing Education office for more information.

Qualifications for Application
• Participants should be university graduates currently engaged in crop production or agro-ecosystems related research, teaching, extension, outreach, or planning.
• They should have some understanding of crop and soil science and be relatively familiar with the terminology used in these fields. An in-depth knowledge, however, is not a prerequisite.
• They should be familiar with personal computers and the Windows operating environment.
• They should understand English.

Continuing Education Units (CEU)
On request, participants can receive 4.8 CEU and a Certificate from the University of Georgia certifying that they completed the program.

Visa Requirement
A visa is required to enter the United States. Each participant must obtain a visitor visa from the Embassy or Consulate of the United States in his or her country of residence prior to departure and is required to fulfill any required health formalities, including obtaining insurance. The Office of Continuing Education can provide a letter, confirming your participation in the workshop, to facilitate your visa application. Allow ample time for the visa approval process.

For Workshop Information contact:
Art Cain or Julie Peters
The University of Georgia
Office of Continuing Education
1109 Experiment Street
Stuckey Conference Center 125
Griffin, Georgia 30223, USA
Telephone: 1-770-229-3477; Fax: 1-770-233-6180
E-mail: conteduc@uga.edu

For Program Information contact:
Dr. Gerrit Hoogenboom
Director, AgWeatherNet and Professor
Washington State University
24106 North Bunn Road
Prosser, Washington 99350-8694, USA
Telephone: 1-509-786-9371
Fax: 1-509-786-9370
E-mail: gerrit.hoogenboom@wsu.edu

Faculty
The following faculty will lecture in this training program:
Dr. G. Hoogenboom, Washington State University
Dr. K.J. Boote, The University of Florida
Dr. V. Shelia, Washington State University
Dr. C. Porter, The University of Florida
Dr. S. Asseng, The University of Florida
Dr. J.W. Jones, The University of Florida

Co-Sponsors
DSSAT Foundation
Washington State University
The University of Georgia
The University of Florida
International Fertilizer Development Center
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AN OUTSTANDING TRAINING WORKSHOP

Rationale

Today more than ever, increased crop production depends on judicious use of resources, issues such as climate change, climate variability, soil carbon sequestration, biofuels, long-term food security and environmental sustainability have become important issues. Computer simulation models of the soil/plant/Earth system can make a valuable contribution to both furthering our understanding of the processes that determine crop responses and predicting crop performance, resource use and environmental impacts for different environments and management scenarios. User-oriented simulation models greatly facilitate the task of optimizing crop growth and deriving recommendations concerning crop management. They can also be used to determine the potential impact of climate change on crop production and long-term soil carbon sequestration, or provide management scenarios for adapting to climate change and variability.

Program Goal and Objectives

The overall goal of this training program is to familiarize participants with a comprehensive computer model for the simulation of crop growth and yield, soil and plant water, nutrient and carbon dynamics and their application to real world problems.

Specifically the program will focus on:
- Operation of the Windows-based Decision Support System for Agrotechnology Transfer (DSSAT) Version 4.6 software (www.DSSAT.org)
- Description of the DSSAT-Cropping System Model. CSM and its modules, such as CROPGRO, and CERES, and the science embedded in the models.
- Minimum data requirements and experimental data collection for systems simulation.
- Integration of crop simulation models with data base management and Geographic Information Systems.
- Application of the DSSAT-CSM model to improve management of cropping systems.

Crop System Model & DSSAT

The program will make extensive use of the DSSAT-Cropping System Model (CSM). CSM is a general cropping system model incorporating the CROPGRO model for simulating crop growth and development and soil and plant water, nitrogen, phosphorus and carbon dynamics. CSM is comprised of the CROPGRO module for soybean, peanut, common bean, chickpea, faba bean, cowpea, and other grain legumes, the CERES module for maize, sorghum and millet, the CERES-Rice module for rice, the SUBSTOR module for potato, the CROPSIM-CERES module for wheat and barley, the CROPGRO module for tomato, bell pepper, bahia, brachiaria, cotton, canola and green beans, the CANEGRO model for sugarcane, and the CASSAVA module for cassava. The CENTURY model for the simulation of soil carbon and nitrogen has also been incorporated in CSM. DSSAT v4.6 is Windows-based and includes the CSM module for simulating crop growth and development, soil and plant water, weather and soil data for model evaluation. The program will make extensive use of the DSSAT-CSM model to cropping systems in various regions of the world.

PROGRAM HIGHLIGHTS

The program will:
- Describe a practical approach for simulating effects of soil, water, management, and pest factors on crop production.
- Demonstrate how processes of crop growth and development, water use, uptake of water and nutrients and climate dynamics can be simulated.
- Make extensive use of “hands on” sessions that apply the DSSAT-CSM model to cropping systems in various regions of the world.
- Describe procedures for collecting and managing crop, weather and soil data for model evaluation.
- Demonstrate the opportunity to work with their own data and determine the accuracy of the models for application to specific problems.
- Analyze management alternatives for single seasons or on-farm long-term crop rotations.
- Concentrate on specific applications that include irrigation, fertilizer and nutrient management, climate change, soil carbon sequestration, climate variability, and precision management.
- Assess economic risks and environmental impacts associated with agricultural production.

- Precision management
- Climate change and variability
- Food security
- Feed stock for bio-fuel
- Soil carbon sequestration
- Environmental impact
- Sustainability
- Ecosystem services

REGISTRATION INFORMATION

Registration Fee

The registration fee is $1500 if you register by April 1 and $1800 if you register after April 1. It covers resource material including the DSSAT v4.6 software and the book Understanding Options for Agricultural Production. It also includes AMPM breaks and lunch on training days, and registration services. It does not cover breakfast, dinner, lodging, health insurance, or transportation. Each participant is responsible for these costs. If you register by April 1, you are assured of receiving a confirmation package. Enrollment is limited to 50 participants.

How To Register: 5 Easy ways

By mail: Mail your registration and payment to the Office of Continuing Education, The University of Georgia, Griffin Campus, 1109 Experiment St., Griffin, GA 30223.

In person: Come to the Office of Continuing Education, which is located in the Stuckey Conference Center, Room 125, on the Griffin Campus. Business hours are 8 am-5 pm, M-F.

By telephone: Our telephone number is 1-770-229-3477. Payment is by credit card only.

By fax: Fill out your registration form and fax it to 1-770-233-6180. Payment is by credit card only.

Online: Go to www.ugagriffincontinuinged.com. Click the DSSAT 2016 link at the top of the page. Payment is by credit card.

Payment by Wire Transfer: If you are not able to pay using the options given above, you may be able to wire transfer funds to the University of Georgia. Contact the Office of Continuing Education for information on this payment option.

Registration Form

Please register one (1) person per form. Copy the form as needed.

Pre-payment is required to guarantee your registration.

Method of Payment:

- $1500 if postmarked on or before April 1
- $1800 if postmarked after April 1

By check (Make check payable to: University of Georgia)
- Personal
- Cashiers
- Money order

By credit card
- American Express
- Visa
- MasterCard
- Discover

Name on Credit Card:

Credit Card Number:__________________________Expires:____/____

Special Needs:___________________________________

E-mail:____________________________________________

Pre-registration deadline July 1, 2016.

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