ANNOUNCES AN INTERNATIONAL WORKSHOP PROGRAM ON

Advanced Application of DSSAT:
Assessing Crop Production, Nutrient Management, Climatic Risk and Environmental Sustainability with Simulation Models

In Partnership with
DSSAT Foundation and
Washington State University

Addis Ababa, Ethiopia   March 2-9, 2016

Program Fees

<table>
<thead>
<tr>
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RATIONALE

Today more than ever, increased crop production depends on judicious use of resources. In addition, 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/atmosphere 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 from field scale to regional scale.

PROGRAM GOAL AND OBJECTIVES

The overall goal of this advanced training program is to provide participants who are familiar with DSSAT or other crop simulation models a comprehensive understanding of the 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:

1. Operation of the Windows-based Decision Support System for Agro-technology Transfer (DSSAT) Version 4.6 software (www.DSSAT.org) and the GSSAT V2.0 software for geospatial application.
2. The minimum data set entry for weather, soils, and experimental data.
3. Description of the DSSAT-Cropping System Model, CSM and its modules, such as CROPGRO, and CERES, and the science embedded in the models.
4. Integration of crop simulation models with data base management and Geographic Information Systems (GSSAT V2.0).
5. Application of the GSSAT to improve management of cropping systems, develop fertilizer recommendations, and quantify impact of climate change from field level to national and regional scales.
**PROGRAM HIGHLIGHTS**

The program will:

- Describe a practical approach for simulating effects of soil, weather, and management factors on crop production, soil fertility, and the environment.
- Demonstrate how processes of crop growth and development, water use, uptake of water and nutrients and carbon 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 and application.
- Employing DSSAT and the Phosphate Rock Decision Support System (PRDSS) for rapid analyses and nutrient recommendations.
- Application of GSSAT - a geo-spatial tool linked with DSSAT for regional and site-specific recommendations.
- Use GSSAT to analyze applications that include irrigation, fertilizer and nutrient management, climate change, soil carbon sequestration, climate variability, and precision management.
- Conduct a case study at district and/or country scale to develop fertilizer recommendations and assess economic risks and environmental impacts associated with agricultural production.

**WHO SHOULD ATTEND**

This workshop is designed for agronomists, soil scientists, meteorologists and economists from national and international agricultural research institutes and universities, as well as policymakers in charge of agricultural productivity and planning who had prior exposure to DSSAT or other crop simulation models. The program will have sub-Saharan Africa focus designed for researchers, extension agents as well as policymakers from African governments and their Ministries in charge of agricultural productivity and planning.
Participants should:

- Be engaged in crop production or agro-ecosystems-related research, teaching, extension, outreach or planning.
- Have some understanding of crop and soil science and be relatively familiar with the terminology used in these fields. An in-depth level of knowledge, however, is not a prerequisite.
- Be familiar with personal computers and the Windows operating environment.
- Understand English.
- Prior exposure to DSSAT will be advantageous.

**FACULTY**

The program faculty will include subject matter experts from IFDC and Washington State University as well from other experts from National Agricultural Research Systems (NARS) and regional centers.

**VENUE**

The workshop will take place in Addis Ababa, Ethiopia, at the International Livestock Research Institute (ILRI) campus located on the east side of the city, close the airport, shopping malls and entertainment areas of Addis. It is particularly well-located with regard to Addis Ababa’s agricultural community – the Ministry of Agriculture, the Ethiopian Institute of Agricultural Research, and the FAO sub-regional office are all close neighbors. The ILRI campus has an excellent guesthouse offering a fully equipped conference center and 57 standard and executive rooms each with private bathroom, basic kitchen, satellite DSTV television, telephone and free internet in a quiet and peaceful environment.

Participants will be extended IFDC’s negotiated special standard room rate of US $85.00 per person/night for bed and breakfast (inclusive of taxes). This rate is valid for reservations made NO LATER THAN February 2, 2016. After this date, reservations will be subject to room availability and at the best available rate.

Participants should plan to arrive in Addis, Ethiopia, on Tuesday, March 1, 2016. Upon request, the ILRI guest house can provide airport pickup service at $ 15 person per trip.

Please fill out the attached form and return via e-mail to sjackson@ifdc.org NO LATER THAN February 2, 2016, in order to reserve your room/transportation!
**VISA AND MEDICAL INSURANCE**

Applications for necessary visas should be made as early as possible. Participants who are not eligible to enter Ethiopia without a visa should apply at the nearest Ethiopian embassy for a visa. All required immunizations and health formalities should be completed. Medical insurance should be obtained by participants. The training program fee does not cover any medical insurance or expenses.

**COST AND ENROLLMENT**

The regular program fee for this training course is US $1,750 per participant (inclusive of a US $250 non-refundable deposit) and should reach IFDC no later than February 2, 2016, four (4) weeks before the program is scheduled. Those received thereafter will be accepted at IFDC’s discretion and incur a late fee. Participants will be given the opportunity to take advantage of an early bird rate if registration and payment is received by IFDC prior to January 2. Please refer to the table below for pricing:

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The program fee, less the non-refundable deposit, will be refunded for cancellations made two (2) weeks before the commencement of the program. Ninety percent of the paid fee will be returned and 10 percent, in addition to the deposit, will be charged to cover administrative costs for cancellations made between two (2) weeks and one (1) week before the commencement of the program. Cancellations made less than one (1) week before the commencement of the program will receive no refund.

Payment of the program fee can be made by: (1) check or draft payable to IFDC; (2) wire transfer to IFDC’s account in the U.S.A. through First Metro Bank, 406 West Avalon Avenue, Muscle Shoals, Alabama, U.S.A., ABA number 062203955 for credit to IFDC account number 55281; or (3) major credit card – MasterCard, Visa or American Express.

Registration will be on a first-come, first-served basis. Paid participants will receive priority. An organization wishing to enroll more than one participant should supply information and payment for each participant.

The program fee covers registration, training and reference material (software and the book *Understanding Option for Agricultural Production*), coffee/tea breaks, all lunches and surface transportation related to field trips. The fee does not include costs of participants’ air travel expenses from their home country to Ethiopia, lodging and meal expenses (beyond lunches as stated above), medical and/or communications expenses. Participants are responsible for these costs. Participants should plan to arrive in Addis Ababa, Ethiopia, by Tuesday, March 1, 2016.
ABOUT IFDC

IFDC is a nonprofit, public international organization (PIO) dedicated to increasing agricultural productivity and food production through the development and use of plant nutrients in sustainable crop production systems. Headquartered in Muscle Shoals, Alabama, U.S.A., IFDC is involved in human resource development, research and technical assistance in collaboration with public, private, national and international organizations throughout the world. IFDC has conducted more than 700 formal workshops, study tours and training programs for over 11,000 participants from over 150 countries since 1974. The programs have covered a wide range of subjects including integrated soil fertility management and fertilizer use efficiency, fertilizer production technology, agro-input dealership, competitive marketing, supply chain management, investment analysis, policy reforms and numerous specialized topics.

FOR MORE INFORMATION PLEASE CONTACT:

Director, Training and Workshop Coordination Unit
IFDC
P.O. Box 2040
Muscle Shoals, Alabama 35662, U.S.A.
Telephone: +1 (256) 381-6600
Fax: +1 (256) 381-7408
E-Mail: training@ifdc.org
Website: www.ifdc.org

As a nonprofit organization, IFDC does not finance or sponsor any participant.

IFDCTraining   @IFDCTraining
Program Registration Form

Advanced Application of DSSAT:
Assessing Crop Production, Nutrient Management, Climatic Risk and Environmental Sustainability with Simulation Models

Register online: https://www.etouches.com/DSSAT

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IFDC reserves the right to cancel any program or change the dates and/or venue of any program without liability for compensation.

Please PRINT or TYPE your legal name as you would like it to appear on ALL printed materials

(Dr., Mr., Mrs., Ms., Miss) Given Name (First Name) Surname (Last Name)

Position

Organization or Employer

Work Mailing Address

City State Country

Work Tel. No.: Fax No.: Home Tel No.: 

E-Mail:

Organization/Company Funding Your Participation

Arrival Date and Time: Flight Number: Departure Date and Time: Flight Number:

Signature of Applicant Date

Signature of Employer/Funding Organization Date

Note: A non-refundable deposit of US $250 is required with each registration. The deposit will be credited towards the program fee which is due four (4) weeks before the program is scheduled. Thereafter, a Late Fee will apply. The program fee, less the deposit, will be refunded for cancellations made two (2) weeks before the commencement of the program. Ninety percent of the paid fee will be returned and 10 percent, in addition to the deposit, will be charged to cover administrative costs for cancellations made between two (2) weeks and one (1) week before the commencement of the program. Cancellations made less than one (1) week before the commencement of the program will receive no refund.

The program fee covers registration, training and reference material, coffee/tea breaks, all lunches and surface transportation on field trips. The fee does not include air travel, lodging and dinner expenses, visa and medical insurance or communication expenses. All of these costs fall under participants’ responsibilities.

☐ By checking this box, I acknowledge that I have read and understand the cancellation policy and program fee coverage.
Participants will receive the special single room bed & breakfast rate for the program of US $85 per room – per night (inclusive of taxes). Please use the Room Reservation Form provided below in order to secure your room. Please fill out the attached form and return via e-mail to sjackson@ifdc.org NO LATER THAN February 2, 2016, in order to reserve your room/transportation! We will take care of your reservation. DO NOT contact the guest house directly as they will not accept your reservation.

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<th>Room Reservation Form for ILRI Guest House</th>
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<td>ADVANCED APPLICATION OF DSSAT:</td>
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<td>ASSESSING CROP PRODUCTION, NUTRIENT MANAGEMENT, CLIMATIC RISK AND ENVIRONMENTAL SUSTAINABILITY WITH SIMULATION MODELS</td>
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- **Guest Name**: ________________________________
- **Company**: ________________________________
- **Arrival Date**: ____________ **Arrival Time**: ____________ **Flight #**: ____________
- **Departure Date**: ____________ **Departure Time**: ____________ **Flight #**: ____________
- **Contact Person**: ________________________________
- **Contact Tel. #**: ________________________________
- **E-Mail Address**: ________________________________
- **Fax #**: ________________________________

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<tr>
<th>No. of Rooms Required</th>
<th>No. of Pax</th>
<th>Adult</th>
<th>Child</th>
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<tbody>
<tr>
<td>Standard Single USD $85.00</td>
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**Note**: The above reservation form is binding. When you return the form and ask us to make your reservation, you occupy a room in our room block. If for some reason you do not arrive at the guest house, room cancellation penalties may be applied.

**Airport Pick Up Service at**  
US $15.00 one way

- **Transportation requested upon arrival from airport to the guest house?**
  - □ Yes
  - □ No
- **Transportation requested upon departure from the guest house to airport?**
  - □ Yes
  - □ No

**Note**: Please be sure to include your arrival/departure dates, times and flights above if you request transportation.