On behalf of the International Fertilizer Association (IFA), IFDC will conduct an International workshop on

**Nitrogen Fertilizer: Advances in Technology, Products, Safety and Global Impact.**

With the Support of the International Fertilizer Society (IFS)

**London, UK**  
**June 26-30, 2017**

**Program fees:**

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BACKGROUND

Since 2001, through biennial events, IFA and IFDC have been conducting the Nitrogen Fertilizer Technology workshops to share knowledge and exchange information with representatives of the nitrogen fertilizer industry regarding different production technologies. Initially, these workshops were designed for engineers working in the fertilizer industry who have recently assumed new responsibilities, to renew and/or increase their technical knowledge in nitrogen fertilizer production, and for new engineers to become better acquainted with the best available production processes in the industry. In reality, these workshops attracted other socio-professional categories such as C-level executives, senior managers and those involved in areas of marketing, agronomy, environment and research, as well as private sector entrepreneurs investing in the fertilizer industry.

Building on the successes of these workshops and the feedback received from the participants, it was decided to broaden the scope and the audience by adopting the nitrogen fertilizer value chain approach and including all the key nitrogen fertilizer industry players.

The 2017 IFA-IFDC workshop will be held in London, UK, during the week of June 26-30 and is entitled “Nitrogen Fertilizer: Advances in Technology, Products, Safety and Global Impact.”

Nitrogen fertilizers include ammonia, urea, ammonium nitrate, ammonium sulfate and nitrogen solutions. They are an effective means of increasing crop productivity and are used during sowing and as growing season supplements for all crops. Supply of nitrogen fertilizers determines the crop’s growth, vigor, color and yield. According to FAO World Fertilizer Trends and Outlook to 2018, the world nitrogen fertilizer demand increased from 111,400,000 tonnes in 2013 to 113,100,000 tonnes in 2014, at a growth rate of 1.5 percent. It is expected to be around 119,400,000 tonnes in 2018 at an annual growth of 1.4 percent. Nitrogen fertilizers account for some 59 percent of total world consumption of mineral fertilizers.
WHO SHOULD ATTEND

The workshop is primarily designed for all key players in the nitrogen fertilizer value chain:

- This includes those involved in the technology, agronomy, research and business development, environmental and safety regulations, economics and marketing.
- Representatives of local and international nitrogen fertilizer companies, executives, senior managers as well as their engineers will benefit from the program.
- Technical advisors to government policymakers and other public officials who are responsible for fertilizer and agro-minerals exploitation will find the workshop extremely useful.
- Representatives of organizations supporting the development of fertilizer business such as international development agencies, financial institutions, agricultural research centers and universities will take advantage of the workshop.

OBJECTIVES OF THE WORKSHOP

The five-day workshop is designed to:

- Improve participants’ knowledge and understanding of recent advances in the nitrogen fertilizer production technology, products, safety and global impact.
- Provide key players in the fertilizer industry with an in-depth view of the nitrogen fertilizer value chain and identify future trends and needs.
- Improve participants’ technical knowledge across a broad range of nitrogen production techniques, including understanding the best available technology options, economic factors impacting the sector, energy use scenarios and the best approaches to safety and environmental management.
- Enhance the participants’ analytical and trouble-shooting skills in order to better identify and resolve operational inefficiencies of their facilities.
- Provide an opportunity to exchange ideas on a range of production topics with leading technology experts and workshop participants.
- Network with peers from all over the world.
WORKSHOP CONTENT

The workshop will cover various topics including, but not limited to:

**Nitrogen Fertilizer Industry Economics**
- Market Outlook for supply & demand.
- A global overview of the nitrogen fertilizer industry.
- Fertilizer Feedstocks.

**Nitrogen Production Technology**
- Changes, challenges, and opportunities in nitrogen fertilizer-manufacturing processes.
- Converting nitrogen oxide (NOx) to fertilizer.
- Ammonia production alternative technologies.
- Opportunities for small-scale ammonia production: technical and economical parameters for ammonia production.
- Nitrogen fertilizer production:
  - Nitric Acid.
  - Ammonium Nitrate.
  - Calcium Ammonium Nitrate.
  - Ammonium Nitrate-Sulfate.
  - Urea.
  - Ammonium Sulfate.
- Energy use scenarios in nitrogen fertilizer production.

**Environmental Stewardship Issues and Behavior Based Safety**
- Product Stewardship (addressing production, global safety, health, environment issues/solutions including climate change).
- Nutrient Stewardship (addressing application, 4Rs (right source, right rate, right time and right place), controlled slow release and nutrient recycling).
- Ammonia production and greenhouse gas emissions.
- Regulations overview.
METHODOLOGY

Participants will be exposed to a range of topics through classroom presentations, classroom discussions, participant breakout sessions for practical problem-solving exercises and a field trip to a world-class nitrogen producer based in London. Interactive discussions involving the participants and lecturers will be an integral part of the program to ensure that specific interests are covered. Although the workshop is a training event and not a trade show with booths, participants will be allowed to display and share their prospects in the conference room. Upon completion of the training workshop, participants who successfully completed the workshop will receive certificates of participation.

FACULTY

The program faculty will include subject matter experts from IFDC, IFA, IFS and partner organizations involved in the subject.

“I am very glad I could take part in this workshop – it is needed to refresh knowledge and discuss with partners from other countries about similar producers’ problems”

“It was a great opportunity to learn an overview of other aspects of the industry that we are not involved in by meeting and networking with people from other countries. Very enjoyable and most worthwhile; congratulations to organizers and a big THANKS!”

“Workshop planning and arrangements were excellent”
VENUE

The unique ibis Styles London Excel Hotel offers an exclusive place to stay in London’s Docklands area, within 1.4 miles of London City Airport. The ibis Styles London Excel is opposite the ExCel Exhibition Centre and adjacent to the Custom House Docklands Light Railway Station. The Emirates Air Line (cable car) is within 5 minutes by public transport and offers a panoramic view of the area and River Thames. Canning Town Tube Station is only two stops on the DLR and offers direct access to Canary Wharf, Central London and the West End.

The central location in the city and the excellent transport connections make the hotel an ideal starting point for exploring London. From the hotel, the following attractions are with close proximity: Brick Lane Music Hall, O2 Arena, University of Greenwich, and the Royal Artillery Barracks. Other popular attractions nearby include Tower of London, London Eye, Big Ben, Buckingham Palace, Trafalgar Square, and Piccadilly Circus.

Participants will be extended IFDC’s special negotiated single/double occupancy room rate £80 (approximately USD $98.00) per night, including applicable state/local taxes and a complimentary breakfast as well as free Wi-Fi throughout the hotel. Participants are responsible for reservation and payment of accommodations at the ibis Styles London Excel Hotel.
COST AND ENROLLMENT

The program fee for the five-day workshop is US $2,700 per participant for IFA members and US $2,800 for non-IFA members (both inclusive of a US $250 non-refundable deposit) and should reach IFDC no later than May 30, 2017, 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 April 30. 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.

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.

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.

The program fee covers registration, training and reference material (including IFDC/UNIDO Fertilizer Manual), coffee/tea breaks, all lunches and surface transportation on field trips. The fee does not include air travel, lodging and dinner expenses or medical and communication expenses.

VISA AND MEDICAL INSURANCE

APPLICATIONS FOR VISAS SHOULD BE MADE AS EARLY AS POSSIBLE. Participants who are not eligible to enter UK without a visa should submit their application for a visa through the respective embassy or consulate in their country of residence. All required immunizations and health formalities should be completed. Medical insurance should be obtained by participants. The workshop fee does not cover any medical insurance or expenses.
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 dealerships, competitive marketing, supply chain management, investment analysis, policy reforms and numerous specialized topics.

ABOUT IFA
IFA is a not-for-profit organization representing the global fertilizer industry. Our members serve farmers everywhere as they meet the world’s growing food, feed, fibre and bioenergy needs in a sustainable manner. IFA has over 550 members in about 85 countries. About half of the membership is based in developing countries. IFA member companies represent all activities related to the production and distribution of every type of fertilizer, their raw materials and intermediates. IFA’s membership also includes organizations involved in agronomic research and training with regard to fertilizers. The global fertilizer industry produces upwards of 170 million tons of fertilizer nutrients annually. These are used in every corner of the globe to support agricultural production.

ABOUT IFS
The International Fertilizer Society was founded in 1947 for individuals who have a professional interest in any aspect of fertilizer production, marketing and use. Membership is personal and is open to all; it currently covers almost 50 countries world-wide. The Society organizes two conferences each year – one on fertilizer usage and crop nutrition, and the other on fertilizer production and handling. Our archive of c.800 Proceedings of the Society Meetings is one of the major publicly available sources of information on fertilizer production and use, and on crop nutrition.

FOR MORE INFORMATION:

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Muscle Shoals, Alabama 35662, U.S.A.
Telephone: +1 (256) 381-6600
Telefax: +1 (256) 381-7408
E-Mail: training@ifdc.org  Website: www.ifdc.org
NOTE: As a nonprofit organization, IFDC does not finance or sponsor any participant.

IFDCTraining  @IFDCTraining
Program Registration Form

NITROGEN FERTILIZER:
ADVANCES IN TECHNOLOGY, PRODUCTS, SAFETY AND GLOBAL IMPACT 
LONDON, UK — June 26-30, 2017
Register Online: https://www.etouches.com/Nitrogen

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IFDC and IFA reserve 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 included in each program fee. 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.