

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

# Phosphate Fertilizer Production Technology

October 2-6, 2017 Marrakech, Morocco

Registration Fees:

	Early Bird - Registration and Payment by August 2	Regular - Registration and Payment by September 2	Late - Registration and Payment after September 2
IFA Members	\$2,700	\$2,950	\$3,200
Non-IFA Members	\$2,800	\$3,050	\$3,300



## BACKGROUND

Since 2001, through biennial events, IFA and IFDC have conducted the Phosphate Fertilizer Production Technology workshops to share knowledge and exchange information with representatives of the phosphate fertilizer industry regarding the different production technologies. These workshops have been successful due to their unique scope. Unlike other similar training programs in the industry, IFA-IFDC workshops are not process/product-specific but combine all phosphate-based fertilizer processes. The 2017 international workshop will take place in Marrakech, Morocco, during the week of October 2-6, 2017, attracting phosphate fertilizer production engineers and other specialists around the world.

Phosphate fertilizers include single superphosphate (SSP), triple superphosphate (TSP), diammonium (DAP), monoammonium phosphate (MAP) and ground phosphate rock. They are effective means of correcting soil phosphorus deficiencies and increasing the production of high yielding and better quality crops. Phosphorus is critical to the current and future food security in the world.

Phosphate rock is the primary source of phosphorus and the main raw material from which phosphate fertilizers are produced. While phosphate rock is a non-renewable resource and then finite, phosphorus, on the other hand, is a renewable resource that can be reused within economic and technical limits. IFA and IFDC, together with their partners in the fertilizer industry, are committed to the sustainable use of all phosphorus resources. For this reason, they have joined hands to organize this international workshop on Phosphate Fertilizer Production Technology, with the ultimate goal to increase efficiencies and reduce losses in phosphate fertilizer production processes.



## OBJECTIVES OF THE WORKSHOP

The five-day IFA-IFDC workshop is designed to:

- Provide engineers and other specialists in the fertilizer industry with an in-depth view of phosphate fertilizer production technologies and identify future trends and needs.
- Examine the status of the most recent phosphate fertilizer production technologies.
- Improve participants' technical knowledge across a broad range of phosphate 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 troubleshooting 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.

### 2015 Edition

“Very good networking opportunity.”

–**Production Engineer, Austria**

“Thank you very much for the training. I will definitely recommend this training to my colleagues.” –**Anonymous**

### 2013 Edition

“Overall quite good, a lot of benefit gained from networking with other manufacturers.”

–**Process Manager, New Zealand**

“IFA/IFDC officials have made this workshop memorable and enlightening. At the same time, I am happy that the vision has been well received by participants from various organizations.”

–**Dy. General Manager – Production, India**

### 2011 Edition

“The training on phosphate technology was a high point in my career as an expert in fertilizer development and technology. It empowered me with the knowledge on a more efficient and environmentally acceptable technology in phosphate production. As a university professor, it impacted positively on my lecture content and delivery, as well as my consultancy services to the industry.”

–**Professor, Nigeria**

“The workshop surprised me with the high quality of presentations, diversity of issues related to phosphate fertilizers and the kindness of the people from IFDC. The workshop allowed me to meet many phosphate fertilizer specialists from many companies and institutions with whom I could establish some work collaboration.”

–**Process Engineer, Spain**

## WHO SHOULD ATTEND

The workshop is designed for engineers and agronomists working in the fertilizer industry, particularly those who have recently assumed new responsibilities, to renew and/or increase their technical knowledge in phosphate fertilizer production and to become better acquainted with the best available production processes in the industry. Previous workshops have also attracted other specialists in the fertilizer industry, such as executives, senior managers, and those involved in areas of environment and research, all of whom have found the program useful. Entrepreneurs have also benefited from the program.



*During the 2013 edition, participants toured a phosphate fertilizer processing facility outside of Bangkok, Thailand.*

## WORKSHOP CONTENT

Topics to be addressed by a faculty of industry experts will include:

- Economics of the industry.
- Phosphoric acid production.
- Phosphate fertilizer production:
  - Single superphosphate
  - Triple superphosphate
  - Ammonium phosphate
  - Nitro-phosphate
  - Compound (NPK) fertilizer:
    - Ammonium nitrate-based
    - Urea-based
    - Bulk blends
- Fertilizer chemical and physical specifications and product quality.
- Energy, environmental, safety, and product stewardship issues.
- Packaging, transportation, and handling.

### 2009 Edition

“The 2009 phosphate workshop in Morocco was really successful.

The hotel, speakers, mine/plant visit, knowledge and research papers; you did excellent work!!!

For everybody who attended, thanks for your time and friendship, and I hope you are fine back home.

ABOCOL/Colombia is open to you when you want to come or to know anything.”

–Participant from Colombia

“Wonderful; very relevant and most useful to those associated with the fertilizer industry.”

–Participant from India

“Not knowing very much when I came, I have a much better understanding now. Very knowledgeable speakers! I enjoyed the program very much!”

–Participant from United States

### 2007 Edition

“As a graduate chemistry engineer, I attended the IFDC Phosphate Fertilizer Production Technology workshop in 2007.

The workshop kick-started my work with phosphate recycling by giving me a comprehensive overview of the phosphate industry and the technologies employed. Today I still use the IFDC material as a solid reference. In addition, the workshop was a very pleasant experience. I enjoyed good company with engineers from the all over the world, and I got a very useful network of highly skilled experts from the phosphate industry.”

–Participant from Denmark

## METHODOLOGY

Participants will be exposed to a range of topics through classroom presentations and discussions, participant breakout sessions for practical problem-solving exercises and technical visits to OCP phosphate facilities. Interactive discussion involving the participants and lecturers will be an integral part of the program to ensure that specific interests are covered.

## FACULTY

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

## VENUE



Within the Hivernage area of Marrakech, Hivernage Hotel & Spa is walking distance from the legendary Jemâa el Fna square, a marketplace in Marrakesh's medina quarter. A

taxi from Marrakech Airport to the Hotel usually takes around 5 to 10 minutes. This 5-star hotel is also within close proximity of Cyber Park and Koutoubia Minaret, two popular tourist attractions in Marrakech. Close to the train station, the hotel is ideally located for exploring Medina and for city sightseeing. Guests of Hivernage Hotel & Spa enjoy a full-service spa, an outdoor pool, and a 24-hour fitness center.



Each room is equipped with satellite TV and free Wi-Fi internet access. Participants will be extended IFDC's specially negotiated single/double occupancy room rate of 1500.00 MAD (approximately US \$150) per night. This rate includes a full complimentary buffet breakfast that is offered daily. Applicable state/local taxes will apply. Participants are responsible for reservation and payment of accommodations at Hivernage Hotel & Spa.

Please contact the hotel to reserve your room **NO LATER THAN September 1, 2017**. After this date, reservations will be subject to hotel room availability and at the best available rate. Participants should arrive on **Sunday, October 1, 2017**.

### Hivernage Hotel & Spa Marrakech

Angle Avenue Echouhada et Rue des  
Temples, Marrakech, 40000

Morocco.

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Website: [www.hivernage-hotel.com](http://www.hivernage-hotel.com)

## VISA AND MEDICAL INSURANCE

**APPLICATIONS FOR VISAS SHOULD BE MADE AS EARLY AS POSSIBLE.** Participants who are not eligible to enter Morocco 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.

## COST AND ENROLLMENT

The program fee for the five-day workshop is US \$2,950 per participant for IFA members and US \$3,050 for non-IFA members (both inclusive of a US \$250 non-refundable deposit) and should reach IFDC no later than September 2, 2017, four (4) weeks before the program is scheduled. Those received thereafter will be accepted at IFDC's discretion and will 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 August 2. Please refer to the table below for pricing:

	Early Bird - Registration and Payment by August 2	Regular - Registration and Payment by September 2	Late - After September 2
IFA Members	\$2,700	\$2,950	\$3,200
Non-IFA Members	\$2,800	\$3,050	\$3,300

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 USA through First Metro Bank, 406 West Avalon Avenue, Muscle Shoals, Alabama, USA, 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.

## 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, USA, 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 reform, and numerous specialized topics.

## ABOUT IFA

The International Fertilizer Association (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, fiber, 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.

## FOR MORE INFORMATION:

**Director, Training and Workshop Coordination Unit**

**IFDC**

**P.O. Box 2040**

**Muscle Shoals, Alabama 35662, USA**

**Telephone: +1 (256) 381-6600 | Telefax: +1 (256) 381-7408**

**Email: [training@ifdc.org](mailto:training@ifdc.org) | Website: [www.ifdc.org](http://www.ifdc.org)**

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



IFDCTraining



@IFDCTraining



## Program Registration Form

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Register Online <https://www.etauches.com/phosphate>

*IFA and IFDC reserve the right to modify or cancel any program without liability for compensation.*

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

Are you an IFA Member? \_\_\_\_\_ yes \_\_\_\_\_ no

(Dr., Mr., Mrs., Ms., Miss)

Given Name (First Name)

Surname (Last Name)

Position

Organization or Employer

Company Mailing Address

City

State

Country

Work Tel. No.:

Fax No.:

Home Tel No.:

Email:

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 (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, visa and medical insurance, or communication expenses. All of these costs fall under participants' responsibility.

By checking this box, I acknowledge that I have read and understand the cancellation policy and program fee coverage.