

*INTERNATIONAL WORKSHOP AND
STUDY TOUR ON*
**NPK FERTILIZER
PRODUCTION,
STORAGE, AND
HANDLING**

**OCTOBER 23-NOVEMBER 5, 2002
BRAZIL AND ARGENTINA**

IFDC, An International Center for Soil Fertility and Agricultural Development, is organizing an international workshop and study tour on production, storage, and handling of NPK fertilizers. The workshop/study tour will focus on production methods and equipment; plant design; storage and handling issues; raw material and product quality issues; and quality control and assurance of granulated, compacted, blended, and fluid NPKs. Participants will be exposed to a range of topics through classroom presentations, classroom discussions, participant presentations, and visits to NPK production and storage facilities.

Objectives

1. Provide an overview of the alternatives of producing granulated, compacted, blended, and fluid NPK fertilizers.
2. Expose the participants to the various processes and equipment used in producing granulated, compacted, blended, and fluid NPK fertilizers and the unique problems encountered in producing them.
3. Expose the participants to the appropriate methods for storing and handling raw materials and products of granulated, compacted, blended, and fluid NPK fertilizers and the unique problems encountered in storing and handling NPK raw materials and products.
4. Provide an overview of the various quality issues related to producing, storing, and handling NPK fertilizers.

Program Highlights

The workshop/study tour will consist of a combination of field trips and presentations starting in Brazil and then moving to Argentina. The field trips will consist of visits to NPK granulation, blend, and fluid production, storage, and handling facilities in Brazil and Argentina. Many of the presentations will be strategically placed throughout the program to complement each field trip. Additionally, other presentations will be included to give the participants a basic understanding of subject matter closely related to production, storage, and handling of NPK fertilizers. Each participant will also be invited to make a presentation on either: (1) the situation in their country regarding NPK production, importation, and use or (2) the NPK production technology used in their company and their experiences (problems and successes) in producing NPKs.

Program Handouts

Each participant will receive extensive printed material including lecture papers and presentations; a CD containing most of the lecture papers and presentations; other publications on granulated, compacted, blended, and fluid NPKs; and equipment and process vendor information.

Participants

The workshop/study tour is designed for technical managers and engineers engaged in production, storage, and/or handling of granulated, compacted, blended, and/or fluid NPK fertilizers; quality control/assurance managers and engineers; process and equipment design engineers engaged in engineering and supply or modification of NPK fertilizer plants; entrepreneurs contemplating the establishment of NPK production facilities; and policymakers involved in agricultural sector planning. The program will be conducted in English.

Program Content

- Technology, design, and equipment for the production of granulated, compacted, blended, and fluid NPK fertilizers.
- Storage and handling of granulated, compacted, blended, and fluid NPK fertilizers and the raw materials from which they are produced.
- Quality issues in production, storage, and handling of granulated, compacted, blended, and fluid NPK fertilizers.
- Environmental considerations in the design and operation of NPK production facilities, including handling of raw materials and products.
- Organic and organic-based NPK fertilizer production including manures, sewage sludge, and other organic wastes.
- Estimating the cost of developing NPK production facilities and the cost of production.

- Vendor presentations on processes and equipment for producing and handling granulated, compacted, blended, and fluid NPK fertilizers.
- Participant company or country presentations.
- Site visits to NPK granulation, blend, and fluid plants.

Costs

The workshop/study tour fee of US \$2,100 per participant is due by September 25, 2002. A late fee of US \$2,450 applies thereafter. The fee covers tuition, cost of program materials, and local transportation for the field trips. The fee does not cover board, lodging, medical and incidental expenses. Participants are responsible for the cost of air travel and will require an air ticket from their home country to Sao Paulo, Brazil; then to Buenos Aires, Argentina; and return to their home country.

Faculty

The study tour will be conducted by two IFDC fertilizer technology specialists each with over 20 years' experience in the fertilizer sector. In addition, invited experts from the fertilizer industry and fertilizer equipment manufacturers will also participate as faculty.

When and Where

The program will begin Wednesday, October 23 in Sao Paulo, Brazil; travel to Buenos Aires, Argentina on Tuesday, October 29; and end on Tuesday, November 5.

Enrollment

To enroll, please e-mail (preferred), fax, or mail the attached registration form or enroll on IFDC's webpage at www.ifdc.org. The program fee will be refunded in full for cancellations made 2

Program Registration
International Workshop and Study Tour on
NPK Fertilizer Production, Storage, and Handling
October 23 – November 5, 2002
Brazil and Argentina

Program Fee: US \$2,100
Late Fee (after September 25, 2002): US \$2,450

Please complete this registration form and return
the form with payment to IFDC before September 25, 2002.
Registration can be done online at www.ifdc.org

Please Print or Type

Full Name (Mr., Ms., Dr.)—as you want it to appear on your attendance certificate

Birthdate: (Month) (Day) (Year)

Mailing Address:

Contact: Telephone Number/Fax/E-Mail:

Work Telephone

Home Telephone

Mobile/Cellular Telephone

E-Mail

Fax

Who Is Your Employer?

What Is Your Position Held at Your Organization?

Organization Funding Your Participation

Date Signature of Applicant

Date Signature of Employer/
Funding Organization

The program fee is due 4 weeks prior to the commencement of the program. Thereafter a Late Program Fee will apply. The program fee will be refunded in full for cancellation made 2 weeks prior to the commencement of the program; thereafter, 80% of the paid fee will be returned and 20% will be charged to cover administrative costs.

weeks prior to the commencement of the program; thereafter, 80% of the paid fee will be refunded and 20% will be charged to cover administrative costs. An organization asking to enroll more than one participant must supply an enrollment form for each participant. Additional detailed information concerning the training program, hotel accommodations, air travel from Brazil to Argentina, and other arrangements will be sent to enrolled participants.

Visas and Immunizations

Applications for necessary visas should be made as soon as possible. Visas may be required for Brazil and Argentina and applications for visas should be made through the respective Embassies or Consulates in the participant's country of residence. All required immunizations and health formalities should be completed.

Since 1974 IFDC has held over 590 workshops, study tours, and training programs for about 8,000 participants from approximately 150 countries. The programs have covered a wide range of subjects including fertilizer marketing, production, distribution and handling, and numerous specialized subjects. In recent years related courses on sustainability, computer modeling and simulation, fertilizer recommendations, and environmental aspects of fertilizer production and use have attracted participants from around the world.

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

Additional information about this and other training programs will be sent promptly upon request. We welcome your participation and encourage you to share program information with others.

About IFDC

IFDC—An International Center for Soil Fertility and Agricultural Development—is a nonprofit public international organization 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.

You may subscribe to our e-mail announcements about IFDC training opportunities. Just send an e-mail message to hrd@ifdc.org or hrdu@ifdc.org with “subscribe” as the subject message and you will receive periodic announcements.

For more information:

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

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PRODUCTION,
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Organized by:

IFDC—An International Center for Soil Fertility and Agricultural Development
Muscle Shoals, Alabama (U.S.A.)

In cosponsorship with:

Cargill Fertilizantes – Brazil
Cargill Nutrición de Cultivos – Argentina