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**IFA Green Leaf
Trophy**
For Yara International's
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André Bationo to receive this year's International Crop Nutrition Award

Dr André Bationo has been selected to receive the 2009 IFA International Crop Nutrition Award. Nominated by Industries Chimiques du Sénégal (ICS), Dr Bationo is the 18th recipient of the award and the first African to be so honoured. The acceptance ceremony will take place on Tuesday, 26 May, during the IFA Annual Conference in Shanghai, China.

Dr Bationo is the Director of the West Africa programme of the Alliance for a Green Revolution in Africa (AGRA) in Accra, Ghana, and the Senior Programme Officer of AGRA's Soil Health Programme.

The award recognizes Dr Bationo's contribution to soil fertility research and development in Sub-Saharan Africa, particularly in the field of efficient, balanced and environment-friendly fertilization. His research has demonstrated that nitrogen and phosphorus are the most limiting nutrients in Africa's Sudano-Sahelian zone, and that fertilizer use efficiency in this region can be improved through proper placement and combination with organic inputs. Technologies for the use of rock phosphate, crop residues and cattle manure have also resulted in improved crop yield, soil fertility, and reduced production costs among smallholder farmers in this zone.

Dr Bationo has contributed to some 300 scientific publications. In collaboration with researchers at the International Crop Research Institute for the Semi-Arid Tropics (ICRISAT), the International Center for Soil Fertility and Agricultural



Development (IFDC) and several universities, he pioneered the development of fertilizer microdose technology in West Africa to reduce the risk of crop failure. Farmers who adopted this technology recorded yield increases of 50 to 100 per cent. In Niger, 5000 farm households on 20 pilot sites adopted fertilizer microdosing over a period of three years. This technology has also been adopted in Mali, Burkina Faso, Senegal and other African countries.

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IFA addresses the G8

The fertilizer industry calls on G8 governments to invest in increased agricultural productivity to protect food security.

by Thorleif Enger, IFA President

The fertilizer industry would like to congratulate the Italian Government for convening a special G8 Agriculture Summit. We would like to use this opportunity to present the views of one of the agricultural input industries on the global issues that will be covered during the meeting, particularly food security. The global food crisis in 2008 put agriculture back at the top of policy agendas. This renewed focus is both welcome and necessary. During the past decade, global cereal consumption has surpassed pro-

duction during most of the campaigns, eroding stocks to their lowest levels in 30 to 40 years.

However, until mid-2007 low prices for agricultural commodities prevailed, providing limited incentives to invest in enhanced productivity or to harness widespread efficiency gains in the global food production value chain.

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sustainability

Making a difference

Corporate Social Responsibility at PETRONAS: the ASEAN Bintulu Fertilizer Plant



Photos: Asean Bintulu Fertilizer S/B

PETRONAS (an acronym for Petroleum Nasional Berhad) is one of the world's most important oil and gas companies. Founded in 1974, it is wholly owned by the Malaysian Government. PETRONAS is responsible for developing and adding value to the country's oil and gas resources. It is one of the Fortune Global 500's largest corporations, with ventures in more than 30 countries.

At PETRONAS, corporate social responsibility is broadly defined by a commitment to people and communities, the environment, quality of life, and a sustainable and promising future for the generations to come. The company is committed to the well-being of the communities and countries where it operates.

As a responsible corporate citizen, PETRONAS has successfully initiated and supported social, community and environmental projects. A cornerstone of PETRONAS' CSR approach has been its emphasis on education and capability development, elements that have been fundamental to the company's success.

One of PETRONAS' subsidiaries, ASEAN Bintulu Fertilizer Sdn Bhd (ABF), has been developing natural gas resources offshore the Malaysian state of Sarawak while contributing to the well-being of the local community of Bintulu.

Sarawak – the site of Malaysia's earliest officially recorded oil find in 1882 – is

located on the island of Borneo. It has an area of 12,166 km² and a population of around 180,000 (in 2000). Bintulu is one of Sarawak's 11 administrative divisions. Its economy is largely based on petroleum and natural gas. In addition to liquefied natural gas exports, Bintulu's onshore facilities produce formaldehyde resins and fertilizers.

ABF was incorporated in 1980 under the Association of South-East Asian Nations (ASEAN) Industrial Complementation Scheme. It is owned by five countries: Indonesia, Malaysia, the Philippines, Singapore and Thailand. PETRONAS took the lead in this project on behalf of Malaysia.

ABF pioneered the principle of regional cooperation on petroleum development. It was also Malaysia's first fertilizer complex. By providing reasonably priced fertilizers to farmers, ABF conforms to PETRONAS' socioeconomic objectives.

The establishment of ABF was an important step towards modernizing Malaysia's agricultural sector. It was also a small but significant step towards making Malaysia self-sufficient in food production.

With a view to balancing business and social objectives, ABF implements corporate social responsibility programmes that benefit the community through education, health care and initiatives concerned with the environment.

ABF has created outreach programmes involving the company's young executives, who volunteer to spend weekends mentoring and motivating school-age children. As a result, the children have shown tremendous improvement. It also cooperates with PETRONAS' Education Sponsorship Unit and Universiti Teknologi PETRONAS to organize oil and gas career opportunity programmes, as well as interactive motivational seminars and workshops, designed to in-

spire students to pursue careers in the oil and gas industry.

To improve health care in Bintulu's rural community, ABF offers the services of its own in-house doctors. Medical screenings and advice are provided to villagers free of charge.



A patient is examined

ABF ensures that its operations strictly adhere to international environmental standards. It has implemented the Energy and Loss Management System (ELMS), part of PETRONAS' Operational Improvement Initiatives for improving plant efficiency. The objectives of the ELMS are to reduce energy costs and greenhouse gas emissions across the PETRONAS Group. By implementing ELMS, ABF reduces costs while doing its part for the environment.

ABF's CSR activities in Bintulu are contributing to PETRONAS' efforts to strike a balance between commercial, social and environmental performance.

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Children in school uniforms

IFA International Crop Nutrition Award

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To link farmers to markets, Dr Bationo's research has encouraged adoption of the Inventory Credit System (ICS) and a revolving fund to remove barriers to implementation of soil fertility restoration technologies. The combination of appropriate localized soil fertility improvement technologies, post-harvest credit, and storage of grain as collateral ("warrantage"), enabling farmers to sell crops later in the season for higher prices and higher profit, has helped farmers in Niger to produce 50 per cent more food and increase farm incomes while protecting natural resources.

Dr Bationo has integrated on-station and on-farm research, using participatory approaches to ensure that new technologies correspond to the socio-economic and biophysical conditions in which farmers live and work. His most recent focus has been on Integrated Soil Fertility Management (ISFM), particularly the development and refinement of soil fertility improvement technologies

involving the use of inorganic fertilizers, animal manures, grain legumes, agroforestry options, integrated nutrient management options, and soil, water and nutrient conservation.

Dr Bationo obtained a PhD in soil chemistry from Laval University in Canada. He has been involved in research and programme management for the past 25 years. Most recently, he has served as Coordinator of the African Network for Soil Biology and Fertility (AfNet) at the Tropical Soil Biology and Fertility Institute of the International Center for Tropical Agriculture (TSBF-CIAT) in Nairobi, Kenya. He has also worked on joint IFDC-ICRISAT research projects at IFDC in Niamey, Niger.

More information

■ IFA past awards:
www.fertilizer.org/ifa/Home-Page/IFA-awards

IFA's Africa Forum agrees to initiate working groups

The first meeting of the IFA Africa Forum took place on 9 February 2009 in Cairo, in conjunction with the annual event of the Arab Fertilizer Association (AFA). Attended by 25 delegates from companies and organizations that are active in Africa, it provided an opportunity for interaction with new partners such as the Bill and Melinda Gates Foundation, the Alliance for a Green Revolution in Africa (AGRA) and the International Finance Corporation (IFC).

Participants agreed to establish four working groups on: development of a database containing fertilizer consumption statistics; identification of priority countries; development of model fertilizer legislation; and lobbying of the international donor community in order to develop agricultural/fertilizer education and extension programmes. The working groups are expected to present preliminary findings or recommendations at the next Africa Forum meeting on 10-11 June in Durban, South Africa, which will be held back-to-back with the annual general meeting of the Fertilizer Society of South Africa (FSSA).

All IFA member companies and organizations with on-the-ground activities in Africa are encouraged to participate in the Forum's activities. The IFA Secretariat has created a web page where presentations and working documents related to the Forum can be downloaded (www.fertilizer.org/ifa/HomePage-Member/INITIATIVES/Africa-Forum2). The Secretariat maintains close links with relevant organizations, particularly the African Development Bank, which is responsible for the management of the Africa Fertilizer Financing Mechanism (AFFM).

For questions or comments concerning the Africa Forum, or if your company or organization would like to nominate a representative, please contact Patrick Heffer: pheffer@fertilizer.org.

IFA news

IFA participates in Global Partnership on Nutrient Management

IFA has collaborated for a number of years with the United Nations Environment Programme, notably through UNEP's Global Programme of Action for the Protection of the Marine Environment from Land-Based Activities (GPA). As part of this collaboration, and its partnership with the International Nitrogen Initiative (INI), IFA has been invited to join the new Global Partnership on Nutrient Management. The overall goal of the Global Partnership is to reduce nutrient over-enrichment of marine and coastal ecosystems and their associated watersheds. While the Global Partnership was established in 2007, its official launch will take place in May during the CSD 17 session of the UN Commission on Sustainable Development. The Global Partnership will bring together a wide range of stakeholders involved in marine ecosystem protection.

For more information, see: www.gpa.unep.org/content.html?id=385&ln=6

"Farming First" presented to the UN Commission on Sustainable Development

During February's Intergovernmental Preparatory Meeting for the CSD 17 session of the UN Commission on Sustainable Development in May, "Farming First" was presented at a side event. It will be repeated during CSD 17 at a panel discussion on 5 May, and again at an official cocktail on 14 May at UN headquarters in New York. The coalition of farmers (the International Federation of Agricultural Producers), scientists (the International Council for Science), and business and industry (IFA and CropLife International) that support "Farming First", presented it to European CSD focal points at the European Council in Brussels on 17 March. For more information: www.fertilizer.org/ifa/Home-Page/SUSTAINABILITY/Sustainable-agriculture/Farming-First.html or www.farmingfirst.org



focus on

Pakistan's National Fertilizer Development Centre

by Zainul Abedin

In 1977, the National Fertilizer Development Centre (NFDC) was established in Islamabad by the Planning and Development Division of the Government of Pakistan and the UN Food and Agriculture Organization (FAO). NFDC's mandate was to study all fertilizer issues, from the factory gate or port of entry to the farmer's field, and to give policy advice to the Government on the development of fertilizer use in Pakistan. Within the FAO Fertilizer Programme, NFDC was recognized as a pioneer and a Centre of Excellence.

NFDC provides comprehensive advice to the Government at all levels, the fertilizer industry, and other relevant organizations regarding Pakistan's fertilizer sector and the sector's relations with the international fertilizer community. It monitors the status of all aspects of fertilizer development, supply and use, so that timely action can be taken to effect improvements.



Fertilizer application by the broadcast method

NFDC functions as an impartial platform where parties can discuss issues of mutual concern in order to develop agreed fertilizer use recommendations and options and arrive at a consensus. It coordinates and helps to upgrade the capacity of fertilizer research, extension and marketing personnel for the transfer of fertilizer technology.



Wheat harvest in progress



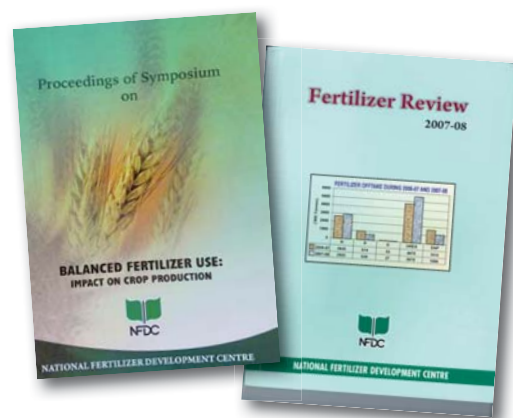
Field preparation for wheat sowing

Photos: NFDC

NFDC has three sections: Agronomy, Policy, and Monitoring and Database. Core activities include demand forecasting; international prices; fertilizer situation reviews (monthly, seasonal and annual); special technical notes; fertilizer use surveys; crop response to fertilizer; fertilizer research reviews; symposia/workshops on balanced fertilizer use; fertilizer marketing; contributions to (and participation in) national and international fora; computerized library documentation; and fertilizer bibliographic updates for Pakistan.

In most cases, completed studies take the form of NFDC reports, technical notes, pamphlets and books, or are published in the scientific literature. An average of 12 to 15 reports are issued each year and widely disseminated nationally and internationally. Special summaries on specific issues have been addressed to the Cabinet, with recommendations for decisions. NFDC recently concluded a project on balanced fertilization through phosphate promotion at farm level (1987-2005), with financial assistance from The World Phosphate Institute (IMPHOS) through FAO. It sponsored an international symposium in 2006, at which technical experts from Pakistan and abroad shared their experience with the impact of balanced fertilizer use on crop production.

Recent NFDC publications include Fertilizer Review 2007-08, Fertilizer Related Statistics 2008 and Proceedings of the Symposium on "Balanced Fertilizer Use: Impact on Crop Production".



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IFA addresses the G8

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The food crisis has once again drawn attention to the conundrum faced by so many smallholders in the world who, despite higher food and crop prices in 2008, could neither increase their incomes nor invest in inputs. While measures are required to provide food for the most vulnerable of those affected by soaring food prices, we also urgently need a concentrated, coordinated public-private effort across the food production value chain to achieve the level of reform necessary for sustainable agricultural growth and rural development for the millions of small-scale farmers in developing countries.

The fertilizer industry calls on G8 governments to:

1. Invest in higher agricultural productivity
2. Support farmers in becoming rural entrepreneurs
3. Implement policies to provide access to inputs

1. Productivity and sustainability should be considered part of the same equation: food security should not be obtained at the expense of environmental sustainability. Increasing yields on existing arable land contributes to food security, economic development and environmental protection by preventing further encroachment of forests or other natural ecosystems. The fertilizer industry promotes ecological intensification and conservation agriculture. We are committed to reducing the unwanted side effects of fertilizer use and to increasing farmers' productivity by enhancing nutrient use efficiency, in particular through the promotion of Fertilizer Best Management Practices and integrated crop management.

2. The majority of the world's farmers are net food buyers, and policymakers should assist in stimulating rural entrepreneurship. This means developing the food production value chain in a holistic manner by finding solutions to shortfalls

in rural credit, harnessing transportation and port efficiencies, and linking farmers to markets where they can sell their produce. The fertilizer industry strongly supports bringing farmers back to the centre of policymaking, as part of the development of a coordinated international response to the continuing high incidence of hunger and malnutrition.

3. Farmers need access to quality inputs, such as fertilizers, at affordable prices and at the right time. The fertilizer industry is participating in the development of a vibrant network of private sector agri-retailers, who can also disseminate information on good farming practices. "Smart" subsidies, provided in the form of vouchers that allow farmers to purchase fertilizers and other inputs through local retailers, support the private sector and stimulate sustainable development of the rural economy.

In this context, the fertilizer industry's priorities for action are:

- Engaging in public-private efforts to achieve sustainable growth across the wider food production value chain, especially in developing countries
- Optimizing existing capacity and investing in additional capacity and logistics in strategic areas, along agricultural development corridors
- Supporting investment in emerging economies where there is potential for fertilizer and food production



Photos: IFDC

Fertilizer application - woman and child



Fertilizer trader selling small fertilizer packs

The fertilizer industry supports the position argued by scientists, farmers, and business and industry in the call to action, "Farming First". "Farming First" calls for a broad-based, knowledge-centred approach in order to increase agricultural output in a sustainable manner. It proposes action in six key areas:

- Safeguarding natural resources
- Sharing knowledge of best farming practices
- Building local access to finance and infrastructure
- Protecting harvests
- Enabling access to markets
- Prioritizing research imperatives

The International Fertilizer Industry Association has adopted food security and Africa's agricultural development as two of its priority topics. IFA's Africa Forum encourages the formation of public-private partnerships to improve the accessibility, availability and affordability of fertilizers. While Africa is often associated with low agricultural productivity and soil depletion, it is also a continent of opportunity. Current fertilizer use is far below the world average, and dramatic improvements need to be made. To realize Africa's potential will require much stronger efforts by the public-private sector. The fertilizer industry is prepared to take an active role in making this happen.

More information

- G8 agriculture meeting: www.g8agricultureministersmeeting.mipaaf.com/
- Farming First: www.farmingfirst.org

IFA news

Climate change task force to present position paper

IFA's task force on climate change will present its final position paper on climate change and the fertilizer industry at the Association's Annual Conference in May. The paper will serve as a background document for the fertilizer industry worldwide. Its main policy messages will be used for advocacy purposes during meetings leading up to the Conference of the Parties (COP 15) of the UN Framework Convention on Climate Change (UNFCCC) in Copenhagen in December.

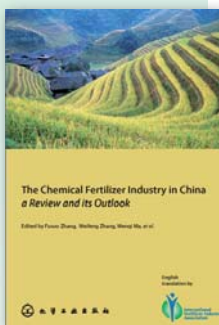
Are you seeking to improve operational efficiency and cut costs?

Then consider registering your young and up-and-coming production engineers for one of two IFA-IFDC technical workshops to learn about the latest production techniques from leading experts from around the world. A workshop on nitrogen production technology will be held in Penang, Malaysia, from 15 to 19 June, with the local support of PETRONAS. From 19 to 23 October, there will be a phosphate technology workshop in Marrakech, Morocco, with OCP in a supporting role.

The chemical fertilizer industry in China: a review and outlook.

English version, IFA, May 2009. 220 pp.

This publication was originally published in Chinese in 2007 and was translated in English by IFA in 2008. It describes the development and technological standard of the industry, the fertilizer market and policies, the development of new types of fertilizers such as slow/controlled-release and foliar fertilizers. To order copies, see the order form on page 8. The pdf file can also be downloaded at: www.fertilizer.org/ifa/Home-Page/LIBRARY/Books-selection/General.html



Dutch facility awarded IFA's Green Leaf Trophy



IFA GREEN LEAF AWARD

IFA's Global Safety Summit in Bahrain opened on Sunday, 15 March, with the announcement that Yara International's Sluiskil facility in the Netherlands was being awarded the IFA Green Leaf Trophy for excellence in safety, health and environment. The first and second runners-up, Tata Chemicals (Babrula complex) and Nagarjuna Fertilizers and Chemicals Ltd (Kakinada complex), both in India, were also recognized during the ceremony.



Marc van Hyfte, Yara Sluiskil B.V., Netherlands, receiving the green leaf award from His Excellency, Dr. Abdul Hussain Bin Ali Mirza, Minister of Oil and Gas Affairs and Chairman of the National Oil and Gas Authority (NOGA), Bahrain

The Green Leaf Trophy is awarded to a fertilizer production site in recognition of its particular efforts, contributions and innovations to enhance safety, health and environmental performance. An independent selection panel reviewed 37 applications from 20 countries – with an equal representation from developed and developing countries. The applications showcased company initiatives to improve employee safety and health, as well as to reduce sites' overall environmental footprint.

"After working systematically on improving our operations and drastically reducing emissions, this award is highly appreciated and also encouraging for our future efforts," Marc Van Hyfte, Yara Sluiskil's plant manager, responded. Yara Sluiskil, which has been in operation since 1929, is one of the ten most energy efficient ammonia plants in the world. Its 580 employees are committed to continuous improvement. Among the measures taken:

- N₂O emissions have been reduced by 70 to 90 per cent and those of NO_x by 85 per cent;
- A behaviour-based safety programme at the facility was selected as a showcase by the Dutch Ministry of Social Affairs and Employment;
- All employees have been encouraged to exercise and to eat healthily, and coaching with a lifestyle consultant has been provided.

IFA promotes a "safety first" mindset in fertilizer production. The Association's Technical Committee has placed occupational safety and health excellence at the top of its agenda. Well-defined and well-executed procedures protect workers and consumers from risks to which they might be exposed during fertilizer manufacture, storage and use. However, as Abdulrahman Jawahery, General Manager of the Gulf Petrochemical Industries Company (GPIC), points out, "the industry and individual companies need to go beyond basic SHE procedures and strive to reach state-of-the-art practices in every production site, through developing their own codes of conduct." GPIC, the Summit host, is an industry leader in safety promotion.

IFA recently released its new set of 12 IFA Safety, Health and Environment (SHE) Principles. All members are encouraged to integrate these principles into their operating strategies. In addition, the Association's Safety Handbook has been distributed to 525 members in 85 countries.

More information

- IFA SHE Principles : www.fertilizer.org/ifa/Home-Page/SUSTAINABILITY/Safety-Health-Environment-Principles
- IFA Green Leaf Award www.fertilizer.org/ifa/Home-Page/IFA-awards

IFA events

IFA Moscow 2009: Fertilizers and Agriculture Conference – first announcement

This joint Production and International Trade and Agriculture conference will provide an excellent opportunity to interact with senior executives of major international fertilizer companies. Participants will include producers, traders and buyers. There will be a special emphasis on the fertilizer industry and related markets in Eastern Europe and Central Asia.

The purpose of this major IFA event is to inform members concerning the most pressing issues that face fertilizer markets. Topics related to trade, projects and market conditions in key consuming countries will be addressed. Also to be discussed are: prospects for agriculture and fertilizer demand, fertilizer use constraints, the development and adoption of Fertilizer Best Management Practices, and policy responses to improve fertilizer use and agricultural production in Eastern Europe and Central Asia (with a particular focus on Russia).

Six half-day plenary sessions will be open to all participants, starting on Wednesday, 7 October and continuing through Fri-



day, 9 October. The first day will be dedicated entirely to issues and topics related to supply aspects (a regular feature of PIT conferences), and the following two days to agriculture and fertilizer demand matters – essentially focusing on Russia and nearby countries.

As usual, functions will be organized to facilitate contacts and stimulate discussions among participants.

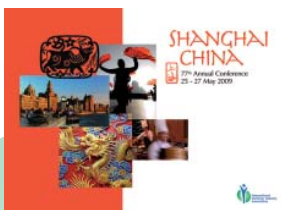
In addition to the plenary sessions, the Production and International Trade Committee's annual meeting will take place on the afternoon of Tuesday, 6 October, preceded by meetings of the Committee's four Work-

ing Parties (by invitation only) on the afternoon of Monday, 5 October, and on Tuesday, 6 October.

A detailed programme and more information about the venue will soon be available. This early announcement is being made so that you can mark your calendars.

Please check the IFA web site, for updates: www.fertilizer.org/Home-Page/EVENTS/IFA-events.html/IFA-Moscow-2009

IFA events



77th IFA Annual Conference*

25-27 May
Shanghai, China

[Registration closed](#)

IFA's 77th Annual Conference will be held at the Pudong Shangri-La Hotel in Shanghai, China. About

1500 delegates from 75 countries are expected to attend, representing more than 300 companies. In addition to the traditional sessions, there will be two special sessions on energy futures and on the impact of agriculture on climate change.



IFA Moscow 2009*

Fertilizers and Agriculture Conference

6-9 October
Moscow, Russia

[Registration opens mid-June](#)

35th IFA Enlarged Council Meeting*

17-19 November
Amman, Jordan

[Registration opens in July](#)

IFA Crossroads Asia-Pacific

8 -10 December
Kota Kinabalu, Malaysia

[Registration opens in July](#)

Events organized in association with IFDC

IFA/IFDC Nitrogen Fertilizer Production Technology Workshop

15-19 June
Penang, Malaysia

IFA/IFDC Phosphate Fertilizer Production Technology Workshop

19-23 October
Marrakech, Morocco

[Information and registration: hrd@ifdc.org](mailto:hrd@ifdc.org)

*Restricted to IFA member companies

More conference information

To access general and registration information on these events click on "Events" on IFA's web site: www.fertilizer.org/ifa/Home-Page/EVENTS. A pocket-sized events brochure can also be downloaded.

IFA's First Safety Summit held in Bahrain

IFA convened its first-ever Global Safety Summit from 14 to 18 March in Bahrain. More than 250 delegates from international fertilizer companies participated, along with leading experts in the field of production safety. The Summit was hosted by the Gulf Petrochemical Industries Company (GPIC), one of IFA's flagship members with regard to occupational health and safety, under the kind patronage of H.E. the Minister of Oil and Gas Affairs and Chairman of the National Oil and Gas Authority of Bahrain.

Safety, health and security considerations have become top corporate priorities in many fertilizer companies. Happy, healthy and productive employees are increasingly perceived as a key competitive factor for producers worldwide. IFA's Vice President for Sustainable Development, William Doyle of PotashCorp, who developed the idea of a Global Safety Summit, gave the Summit's keynote speech. He emphasized that "Safety is, above all, a personal challenge... it is intensely human and requires commitment from the most

senior leadership of a company. Safety cannot be anything less than your number one priority and must become a core value for all fertilizer companies."

The Summit's objective was to help establish the mindset of "Safety First" among leading managers in the industry, and to cement the fertilizer industry's commitment to safety.

The latest safety management techniques and technology solutions were showcased by operators, licensors and safety organizations from Asia, Europe, the Middle East and North America. Topics including the role of safety leadership, continual safety improvement, safety management systems, behaviour-based safety and accident investigation techniques were addressed during the three-day meeting.

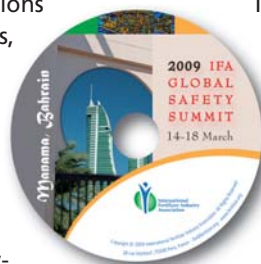
"This inaugural summit will highlight the importance of safety leadership from the CEO level to the shop floor.



Participants of the Safety Summit

In this respect, the Arab Gulf Region is strongly committed to be the leader and driver in our industry," said Abdulrahman Jawahery, Chairman of the IFA Technical Committee and General Manager of GPIC. During the Summit, GPIC organized a site visit to its award-winning ammonia-urea-methanol production facility.

The meeting proceedings are available at: www.fertilizer.org/ifa/Home-Page/LIBRARY/Conference-proceedings/Technical-Conferences. A cd-rom is also available on request for IFA members (see order form below).



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To consult the current and past issues of Fertilizers & Agriculture: www.fertilizer.org/ifa/Home-Page/LIBRARY/Newsletters

Contributions
 We invite your contributions of letters, documents, articles, photographs, etc.

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- IFA's First Safety Summit Proceedings, cd-rom *restricted to IFA members*
- The Chemical Fertilizer Industry in China

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