



IFA ANNUAL REPORT 2020

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FOREWORDS

FROM THE CHAIRMAN



This past year has brought great challenges that have invited us to think even more deeply about resilience, sustainability and indeed about how precious and vulnerable life is. My thoughts and sympathies go out to our friends and colleagues who have lost loved ones to the COVID-19 disease.

We still do not know how long the effects of this pandemic will be felt worldwide, nor its full impact on the global economy. But we do know that there is a real opportunity to build back better. This means reducing the effects of global warming, pollution and biodiversity loss on future generations, while improving living standards and food security.

Our industry is at the heart of this transition. In this past year, we have proven that our license to operate remains as relevant as ever, while we have also been reminded of the great responsibilities we bear. Many governments recognized us as an essential industry, and we continued to play a crucial role for global food security.

In addition to keeping our employees safe, we turned to our communities and delivered medical supplies, food packages and financial resources to support the most vulnerable around us. While we have been successful at navigating this unprecedented period and will take its lessons to help build a more inclusive and sustainable post-pandemic world, we are also mindful of the challenges ahead of us.

From product safety and optimized application practices to maximizing access to nutritious food while reducing agriculture's impact on the planet, we must mobilize our best efforts in innovation, collaboration and mutual learning to meet our profound responsibility as partners in sustainability and planetary stewardship.

I am proud of our industry and honored to have served as IFA's Chairman for the past two years. We are at a critical juncture in our history, and I am looking forward to seeing us rise to the challenges of a post-pandemic world.

Mostafa Terrab
Chairman

FROM THE DIRECTOR GENERAL



It is my great privilege to serve as your new IFA Director-General. I joined IFA earlier this year as the industry is poised for a new phase in its long history, dedicated to feeding the world sustainably. I am looking forward to working with all of you to deliver the IFA2030 vision, defined by the industry under the strong leadership of my predecessor, Charlotte Hebebrand.

An essential first step in that direction took place in October 2020, with the creation of IFA's Sustainability Working Group. More than 30 companies joined the Working Group and helped define priority areas to accelerate the industry's sustainability transition. We are excited to start working on this ambitious and holistic program that will tackle energy efficiency on production sites, a nutrient stewardship roadmap and, importantly, help Members get started on their own sustainability journeys.

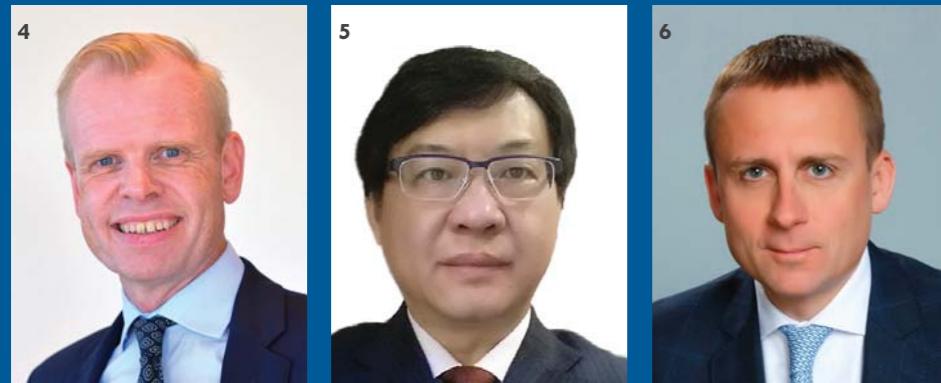
We believe that this work will show investors and the financial community at large that we take sustainability seriously, and they will continue to finance our industry's growth and transition. This work will also raise our profile and will allow us to respond effectively to society's requests of us - from environmental, social and governance (ESG) rating agencies, to national governments and the UN agencies. In the past months, we have increased and deepened our dialogue with these external stakeholders through a set of virtual conferences: The Crossroads Asia Pacific Conference in October 2020 and the second High-Level Forum on Sustainable Plant Nutrition in November 2020. Both these events attracted more than 1,400 registered participants. We would like to thank all of you for making these virtual events a success, as we patiently await the end of the global pandemic, and with it an opportunity to bring our industry together, in person, at our well-known and highly regarded IFA Conferences.

The past year caused disruptions in IFA's activities, but it also provided us with a unique opportunity to reflect, update and streamline our services to better serve our Members. With the IFA Secretariat, I am committed to ensure that our Association and our industry is prepared for the post-pandemic world and remains a strong voice for the industry for the next 93 years.

Alzbeta Klein
Director General

EXECUTIVE BOARD

MAY 2020 - MAY 2021



- 1 MOSTAFA TERRAB**
OCP, Morocco
IFA Chairman
- 2 RAKESH KAPUR**
IFFCO, Indian Farmers Fertiliser
Cooperative Ltd, India
Immediate Past Chairman
- 3 CHUCK MAGRO**
Nutrien, Canada
Vice Chairman
Resigned April 2021
- 4 SVEIN TORE HOLSETH**
Yara International, Norway
Executive Board Member
& Chairman of the Finance
Committee
- 5 ZHAI JIDONG**
Kingtong, China P.R.
Executive Board Member
- 6 DMITRY KONYAEV**
Uralchem, Russian Federation
Executive Board Member &
Chairman of the Communications
& Public Affairs Committee until
November 2020
- 7 CHARLOTTE HEBEBRAND**
Director General, IFA
IFA Member ex-officio
Resigned May 2020
- 8 PATRICK HEFFER**
Interim Director General, IFA
IFA Member ex-officio
May 2020-January 2021
- 9 ALZBETA KLEIN**
Director General, IFA
IFA Member ex-officio
Since January 2021

IFA BOARD

MAY 2020 - MAY 2021



AFRICA

- 1 MUNISH JINDAL**
Indorama Eleme Fert. & Chem. Ltd, Nigeria
- 2 WILLIAM P. O'NEILL**
IRM, United States/Madagascar

EAST ASIA

- 1 MUYONO PRAWIRO**
P.T. Pupuk Sriwidjaja, Indonesia
- 2 ZHAI JIDONG**
Executive Board Member
Kingtong, China P.R.
- 3 QIN HENGDE**
Syngenta Group China, China P.R.
- 4 SHAMSAIRI MOHD IBRAHIM**, Petronas, Malaysia,
Resigned in February 2021

EASTERN EUROPE & CENTRAL ASIA

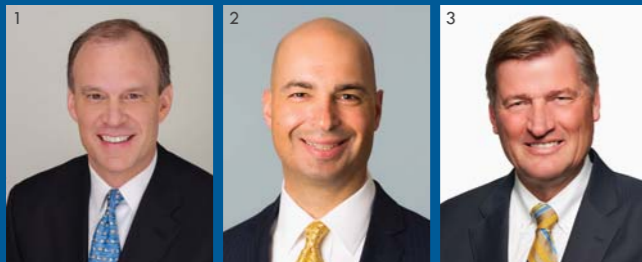
- 1 ANDREY GURIEV**
PhosAgro, Russian Federation
- 2 DMITRY KONYAEV**
Executive Board Member
Uralchem, Russian Federation

LATIN AMERICA

- 1 DANIEL PETTARIN**
Profertil, Argentina
- 2 JAMES FOWLER**
CMOC International Brasil
Resigned January 2021

BOARD OF IFA

MAY 2020 - MAY 2021



NORTH AMERICA

- 1 **TONY WILL**, CF Industries, United States
Chairman, Market Intelligence Committee
- 2 **CHUCK MAGRO**, Nutrien, Canada
Vice Chairman, Resigned April 2021
- 3 **JAMES "JOC" O'ROURKE**
The Mosaic Company, United States



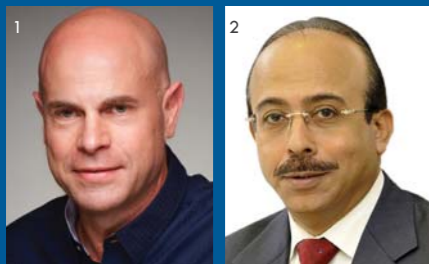
OCEANIA

- 1 **IAN HANSEN**, Wesfarmers, Australia
Chairman, Agriculture Committee
- 2 **JEANNE JOHNS**, Incitec Pivot, Australia



SOUTH ASIA

- 1 **RAKESH KAPUR**, IFFCO, Indian Farmers Fertiliser
Cooperative Ltd, India, Immediate Past Chairman
- 2 **MANOJ MISHRA**, National Fertilizers Ltd, India
Resigned June 2020
- 3 **TARIQ KHAN**, Fauji Fertilizer Company Ltd,
Pakistan
- 4 **SAMEER GOEL**, Coromandel International Ltd,
India



WEST ASIA

- 1 **RAVIV ZOLLER**, ICL, Israel
Chairman Technical & SHE Committee
- 2 **SAMIR AL ABDRABBUH**, SABIC, Saudi Arabia
Chairman of the Communications &
Public Affairs Committee since November 2020



WESTERN & CENTRAL EUROPE

- 1 **SVEIN TORE HOLSETH**, Yara International, Norway
Chairman, Finance Committee
- 2 **GIUSEPPE NATALE**, Valagro S.P.A, Italy

SUSTAINABLE FOOD SYSTEMS

THE ESSENTIAL ROLE OF PLANT NUTRIENTS

In the summer of 2020, UN Secretary-General Antonio Guterres announced that a Sustainable Food Systems Summit (the Summit) would be convened in 2021, the first in 25 years. With the start of a Decade of Action to accelerate the accomplishment of the 17 Sustainable Development Goals (SDGs) by 2030, the UN recognized the need to address how food systems contribute to SDGs, and how food systems can be transformed to solve the intertwined global challenges of increased food insecurity and malnutrition, climate change and biodiversity loss.

IFA took this opportunity to represent the fertilizer industry in the Summit preparations, by joining the Private Sector Guiding Group and taking part in the High-Level Dialogues, including those on innovation and with Ambassadors during the Annual Meeting of the Committee on World Food Security. Member companies also joined IFA in CEO consultations and meetings of private sector leaders.

Our collective message in these dialogues is that **responsible plant nutrition is at the heart of the transition towards more sustainable and resilient global food systems.**

The [Scientific Panel on Responsible Plant Nutrition](#) defined comprehensive objectives for responsible plant nutrition in its first Issue Brief [A New Paradigm for Plant Nutrition](#) (November 2020). These include improving the income, productivity, nutrient efficiency and resilience of farmers and businesses supporting them; and lifting and sustaining soil health and enhancing human health through nutrition-sensitive agriculture (see 2020 Achievements, below). This new paradigm was accepted as a formal contribution to the preparation of the Summit.

Using this framework, IFA and the members of its new Food Systems Task Force (created in September 2020) answered the UN's call for game-changing solutions for Action Track 1 ("Ensuring access to safe and nutritious food for all") and Action Track 3 ("Boosting Nature-based Solutions").

IFA will continue to engage, directly and through the members, in the Summit preparations in 2021, and encourages all members to participate in their national dialogues.

IFA'S 2020 ACHIEVEMENTS HIGHLIGHTS

COVID-19 RESPONSE

IFA took quick and effective steps from the beginning of the COVID-19 pandemic to ensure that members remained informed of developments that could affect their operations, and that its Services would evolve in lockstep with the transformations brought on by these unprecedented circumstances.

In April 2020, IFA launched the Covid-19 Information Center on the member site, and shared global market and supply-chain relevant news, regional policy developments and updates on United Nations and multi-lateral systems each day. The Secretariat was proud to see members use the Center to share their response measures and best practices subject to IFA's antitrust guidelines. These submissions helped the Secretariat communicate extensively about the industry response to the pandemic to external stakeholders, through an [official statement from the industry](#) at the beginning of the crisis, a special edition of the [Fertilizers & Agriculture newsletter](#), a backgrounder on [Fertilizer Benefits for Nutrition and Good Health](#), two press releases and several [blog posts](#).

Thanks to the quick adoption of modern communications technologies, IFA was also able to accelerate and diversify its digital services offerings, including virtual conferences and meetings, webinars and podcasts. Throughout the year, IFA remained engaged with its members and external audiences through webinars on key topics of relevance to the industry, from the impacts of the COVID-19 crisis on fertilizer markets to product and nutrient stewardship initiatives, human health, climate change and broader agricultural and environmental issues.



IFA WEBINARS

Webinars of 2020	Attendees and Views
Improving Human Health with Micronutrient Fertilization	244
Excellence in Agronomy in Africa	144
Protect & Sustain: How to Get Certified	30 (Members only)
Protect & Sustain - Product Stewardship: Certification for Fertilizer Companies (recorded)	39 views (Members only)
Phosphogypsum: Core Principles of Management and Use (recorded)	350 views
Carbon Pricing and Soil Carbon Projects: State of Play and Future Prospects	158
Methods for Estimating Soil N ₂ O Emissions from Mineral N Fertilization	189
COVID-19: Best Practices and Lessons Learned	83
How Can the Fertilizer Industry Play a Role in the Transition Towards a Low-carbon, Food Secure Future?	318
Nutrient Use Efficiency Trends	213
Short-Term Fertilizer Supply and Demand Outlook	208
Medium-term Outlook for Global Fertilizer Demand	173 views
IFA's Medium-term Outlook for Global Nitrogen Supply & Trade	145 views
IFA's Medium-term Outlook for Global Phosphate Supply & Trade	138 views
IFA's Medium-term Outlook for Global Potash Supply & Trade	88 views



IFA CONFERENCES

Attendance at IFA Conference	Location and Date	Participants
Global Stewardship Conference	4-7 February, New York	180
IFA Global Markets Conference	3-5 March, Dubai	130
IFA Crossroads Asia-Pacific Conference	20-22 October, Virtual	766
Second High-Level Forum on Sustainable Plant Nutrition	17-19 November, Virtual	750

The pandemic forced IFA to cancel its Annual Conference, scheduled to be held in New Delhi in April 2020, for the first time since 1945.

IFA organized its last two in-person Conferences at the beginning of 2020, starting with the first Global Stewardship Conference (now known as the Global Sustainability Conference) in New York on 4-7 February, followed by the Global Markets Conference (successor to the Production and International Trade Conference) in Dubai on 3-5 March.

Adapting quickly to the realities of the pandemic, the Secretariat worked hard to offer two entirely virtual Conferences to its members, successfully hosting the Crossroads Asia-Pacific Conference in October and the Second High-Level Forum on Sustainable Plant Nutrition in November online. While in-person conferences and seminars will remain the staple in IFA's future product offering, it is notable how much of a larger outreach (up to four or five times larger) can be achieved through virtual gatherings. IFA is taking on board all the lessons of 2020, to adapt its offering and serve its members well in the future.

The Secretariat is grateful to our sponsor companies for their sponsorship of IFA's virtual events, which enabled record-breaking participation and interactive sessions with the speakers.

GLOBAL STEWARDSHIP CONFERENCE

GOLD SPONSORS



SILVER SPONSORS



MEDIA PARTNER



GLOBAL MARKETS CONFERENCE

DIAMOND SPONSOR



PLATINUM SPONSOR



SUPPORTING PARTNER



CROSSROADS ASIA-PACIFIC CONFERENCE



HIGH-LEVEL FORUM ON SUSTAINABLE PLANT NUTRITION

PLATINUM SPONSORS



GOLD SPONSORS



SUSTAINABILITY

Increasing IFA's focus on sustainability and stewardship was one of the key recommendations to emerge from the IFA2030 strategic exercise, and the Secretariat made it a priority in 2020.

[IFA's first Global Sustainability Report](#) allowed the industry to take stock of its progress toward the Sustainable Development Goals (SDGs) and demonstrate members' multifaceted commitments to sustainability. The Report was officially released during the Global Stewardship Conference in New York, which deepened IFA's reflection on sustainability, bringing together a range of stakeholders from governments, non-governmental organizations (NGOs), UN agencies and the science community to focus on all aspects of industry stewardship related to the production and application of fertilizers.

IFA kept this momentum going during the year:

- Following its popular Green Ammonia presentation at the Global Technical Symposium in Madrid in 2019, IFA commissioned industry analyst Trevor Brown (Ammonia Energy Association) to author a detailed Green Ammonia Overview in 2019. This Overview was released in January 2020 and made available on [IFA's member site](#).
- In June, IFA published its 2nd report on sustainable management and use of phosphogypsum ([How the Fertilizer Industry is Reusing Phosphogypsum](#)), which was publicly discussed during a webinar in July and widely promoted through an IFA communications campaign. This circular economy document is now also available in Chinese, thanks to the translation of the Chinese Phosphate Fertilizer Industry Association.
- IFA and several members also continued to engage in the development of a Low-Carbon Roadmap for the Global Nitrogen Fertilizer Industry, a project led by the International Energy Agency (IEA) and financed by the European Bank for Reconstruction and Development (EBRD), to be released in October 2021.

CLASS OF 2020 - CONGRADULATIONS TO THE FOLLOWING 50 IFA MEMBERS



- IFA's Industry Stewardship Champions category, which includes Members that have a valid Protect & Sustain certification (or equivalent) and have participated in IFA's latest safety, environment and energy benchmarks, grew by 16 new Members, bringing the total to 50 Members from 40 countries in December 2020.
- Recognizing the need for IFA to monitor and report industry-wide nutrient stewardship performance, the Board of Directors adopted IFA's Code of Practice on Nutrient Stewardship in November, a tool that defines a set of good practices and related metrics. The first survey on the Code of Practice was planned for 2021.

This work culminated in the creation of **IFA's new Sustainability Working Group** in October, under the leadership of Chuck Magro, CEO of Nutrien and Vice-Chairman of IFA. Thirty-seven companies from 25 countries joined the Working Group, whose main mission is to "significantly accelerate the sustainability transformation of the fertilizer industry." Five Task Forces (for fertilizer production, use, metrics, communications and cross-area) were created to help the Working Group define a list of priorities, which include the development of a Nutrient Stewardship roadmap, providing members with sustainability training, establishing a dialogue with Environmental, Social and Governance (ESG) rating agencies, and defining CO₂ reduction commitments.

MARKET INTELLIGENCE

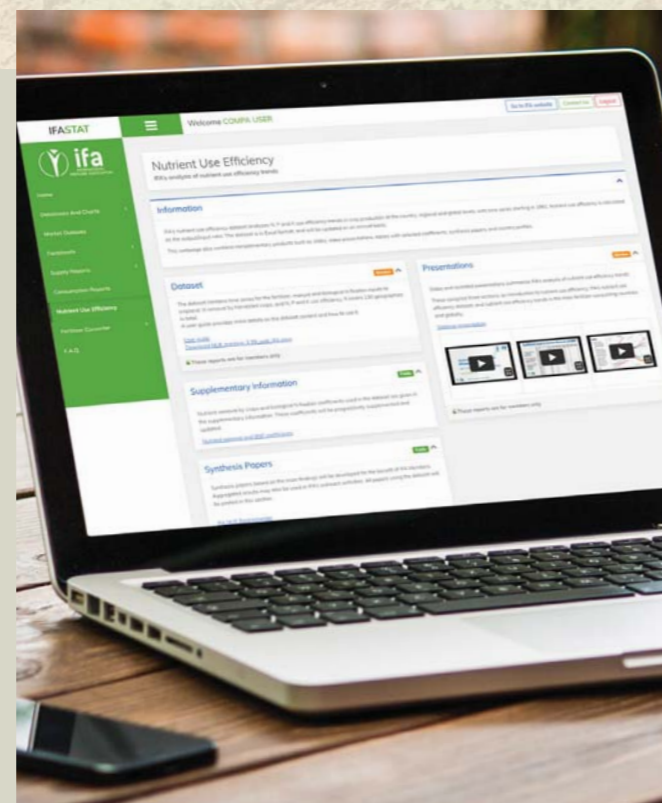
In a period of high uncertainty due to COVID-19, maintaining the output and quality of market intelligence was a high priority, which the Service achieved despite an exceptionally high staff turnover.

In addition to regular surveys covering major products, the Service released:

- Its first-ever NPK Compounds Statistics covering 2015-2017 with global trade matrices for 2015-2018.
- Updates of NOP and SSP capacity reports.
- A complete review of 2013-2018 statistics in the IFASTAT Consumption Database.

All reports provided elements of data visualization to provide market insights for capacity outlooks and recent production and trade developments.

Despite the cancellation of the IFA Annual Conference, the Market Intelligence Service prepared and presented (virtually) a new medium-term supply and demand outlook for IFA members, now available on [IFASTAT](#).



ENGAGEMENT WITH UNITED NATIONS

IFA remained strongly engaged with the UN despite the cancellation of major UN meetings due to the pandemic. Throughout the year, IFA organized 20 virtual bilateral meetings with ambassadors and high-level member state representatives to UN Environment and Food and Agriculture Organization (FAO) to inform them about the recent developments in the fertilizer industry as well as to convey strong support for their agenda. In December, the Secretariat met with FAO Deputy Director-General Beth Bechdol who leads the new strategy of Partnerships and Outreach and oversees the Plant Production and Protection Division, with which IFA is preparing the renewal of the Memorandum of Understanding.

IFA took the lead in representing and engaging the industry in the UN-wide preparations of the Food Systems Summit to be held in September 2021. IFA has been nominated for the Private Sector Guiding Group and several of its members, Svein Tore Holsether (Yara), Sanjay Chhabra (DCM Shriram) and Tip O'Neill (IRM) took part in the first CEO consultations.

IFA began work on a common industry position on food systems, together with key messages and a communications strategy for 2021. Several IFA members participated in the first High-Level Dialogue on Food Systems that was held in October on the occasion of the Annual Committee on World Food Security.

As part of its partnership with the World Farmers Organization (WFO) on the [Climakers](#), IFA spoke at a virtual meeting on soil health, organized by the WFO during the virtual Summit on Bold Actions For Food in November.



Farmers Driven Climate Change Agenda

COMMUNICATIONS



IFA ran several successful communications campaigns in 2020:

- The celebration of the International Year of Plant Health, featuring a Change Makers blog [post](#) and IFA's most popular [Infographic](#) on the importance of fertilizers for plant and human health. These messages were amplified through a webinar in October focusing on the importance of micronutrients' fertilization, and a [special Fertilizers & Agriculture newsletter](#) also dedicated to micronutrients benefits to plants and humans.
- Another focus was placed on gender equality and diversity, featuring interviews with successful women in the industry for [International Women's Day](#) and [Global Fertilizer Day](#), for which occasion IFA also released a playful quiz on gender and agriculture.
- IFA also communicated extensively on the re-use of phosphogypsum, releasing an [Infographic](#) and [Q&A](#) to generate better understanding of the topic.
- IFA kept its focus on climate change during the year and promoted an [infographic](#) and [backgrounder](#) on sustainable fertilizer production in December, to mark the 5th Anniversary of the Paris Agreement.

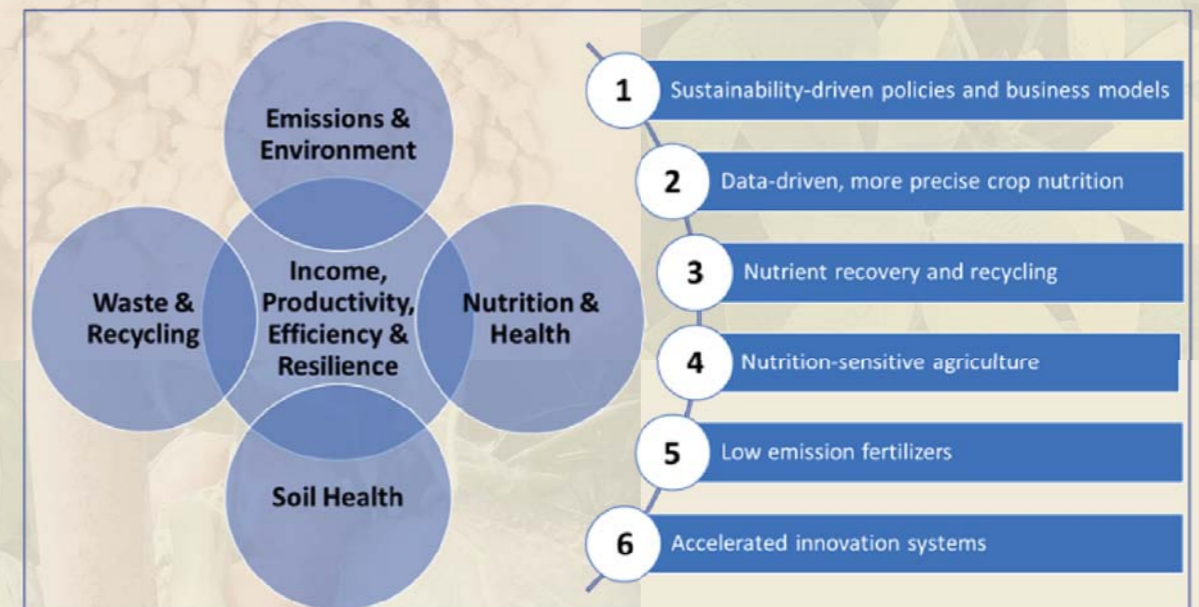
IFA also launched its first [podcast](#) in December 2020, with an episode on biosimulants (available on Apple and Spotify). Through this podcast [series](#), IFA will explore emerging topics, game-changing solutions and innovations that will likely shape plant nutrition and agricultural systems in the years to come.

Social media channels continued to perform very well this year, with IFA's [Twitter](#) profile reaching 17,353 followers with 1,961,524 impressions and 41,179 engagements, while [LinkedIn](#) increased by a particularly impressive 4,170 to 16,380 followers, seeing 353,359 impressions and 19,409 engagements.



THE SCIENTIFIC PANEL ON RESPONSIBLE PLANT NUTRITION

The Scientific Panel on Responsible Plant Nutrition published its first Issue Brief in December, which provides a vision for [A New Paradigm for Plant Nutrition](#), drawing on the most recent science to connect plant nutrition to sustainability. The Issue Brief defined ten difficult questions that need to be answered in the next 20 years for plant nutrition to contribute to a nature-positive approach to agriculture. This new vision focuses on achieving a societal optimum of nutrient use by following food systems and circular economy thinking. It includes the five interconnected aims (see graphic below, left), and six key actions to take (right):



This first output of the Scientific Panel provides an overall, science-based framework for guiding future actions by IFA and its stakeholders. It has also been accepted as a formal contribution to the UN Food Systems Summit 2021.





2020 GREEN LEAF AWARD

Every two years, IFA recognizes Members that have excelled in the Safety, Health and Environment (SHE) performance through its prestigious Green Leaf Award. In 2020, the Award's independent panel selected **Yara's Ravenna plant in Italy** and **Pupuk Kalimantan Timur's plant in Indonesia** as winners in the N-category (creating a tie in this category for the first time). In the P/K producer category, the Award was given to **OCP's Jorf Lasfar (JFC1) plant in Morocco**.

Engro Fertilizers (Pakistan) and **IFFCO's Kandla Unit (India)** were recognized as the first runners-up in the N and P/K producer categories, respectively. Previous IFA Green Leaf Award winner **Qafco (Qatar)** also stood out for its excellence in SHE management in 2020.

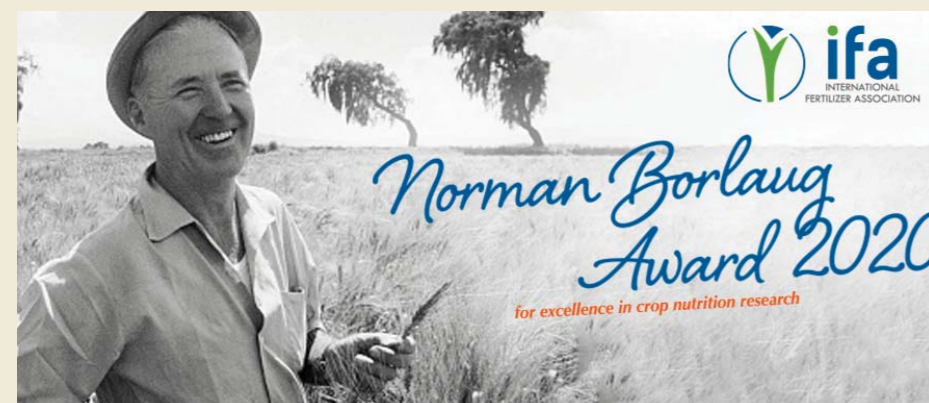


CONGRATULATIONS TO ALL WINNERS!



Knowledge grows

CONGRATULATIONS TO THE RUNNER-UPS!



NORMAN BORLAUG AWARD 2020 WINNER

DR. CLAUDIA WAGNER-RIDDLE

Dr. Claudia Wagner-Riddle, Professor at the University of Guelph in Ontario, Canada, is the recipient of the 2020 IFA Norman Borlaug Award for her innovative use of micrometeorological techniques which allow for the measurement of soil nitrous oxide (N₂O) emissions year-round in the air layer without altering the soil environment. Dr. Wagner-Riddle's work has helped to paint a clearer picture of how and when nitrogen losses occur and what farmers can do to mitigate them.

To learn more about Dr. Wagner-Riddle's work, watch IFA's webinar **"Understanding and managing nitrous oxide emissions"** of January 2021, available [here](#).

INTERVIEW

IFA: What drew you to this specific research field?

Claudia Wagner-Riddle: I've always had an interest in the interface of soil and atmosphere, as well as using physics to resolve applied problems. I grew up in Brazil, where a lot of attention was given to improving crop production through a better knowledge of climate and weather patterns, which fueled my initial interest. I also wanted to learn about protecting coffee trees from frost after witnessing a severe country-wide killer frost in my teenage years.

I trained as an agrometeorologist and worked on soil erosion and its prevention. When it came to choose a postdoc, I decided to join Prof. George Thurtell at the University of Guelph, who had developed an instrument (that has since been patented and commercialized) to measure N₂O emissions from fields using micrometeorological measurements. Two years later, a faculty position became available, and as they say, I've never looked back!

How do you choose the technical tools to help you in your work?

The challenge with measuring N₂O emissions from fields is to capture small emissions occurring against a large background of atmospheric N₂O. Over the course of the year, N₂O emissions represent on average 2-4 kg of nitrogen (N) per hectare, but over a small time frame like one day, we are often measuring less than 1g/ha of emissions. We therefore use analyzers that are sensitive enough to measure these emissions in the atmosphere.

What is also important to know is that N₂O emissions aren't regular: usually there are very few emissions occurring, which are then followed by big emission events (in the order of a few grams/ha). To capture the big events is not easy with manual measuring systems (for instance with soil chambers) because it is difficult to predict when they will occur. But with micrometeorological methods, we are measuring year-round and are able to capture these events.

Based on your knowledge of year-round N₂O emissions from fields, what would be your advice to growers seeking to reduce their emissions?

N₂O emissions come from a confluence of factors which can explain their big peaks. For instance, if you are using a cover crop, and apply fertilizers before a wet period, this may lead to a big emission event: we want to avoid high N levels and high moisture at the same time, as wet soil conditions can accelerate the conversion of N into nitrates and N₂O emissions. It can be difficult to manage at the farm level, but the 4Rs Nutrient Stewardship Program (using the Right fertilizer source, at the Right rate, at the Right time and in the Right place) can help improve this problem. For instance, making adjustments around the timing of fertilizer application and using products such as inhibitors can go a long way in avoiding these big emission events.

You lead a collaborative scientific project in a new outdoor laboratory at the University of Guelph: what can you tell us about this project and the research you are pursuing there?

For this project, we are using soil lysimeters, (which are usually used for water or nutrient budget studies) to measure N leaching and N₂O emissions, two important environment N losses. These large cores are buried flushed with the ground and are fully instrumented at different depths, and at the surface for CO₂ and N₂O emissions. They get weighed over time to measure the water budget and derive the amount of N leached. The laboratory was installed in 2016, it's a long-term facility which we've dedicated to the comparison of simple and complex cropping systems (which use cover crops, for instance), from a number of perspectives (N losses, soil carbon sequestration). We're trying to evaluate how these complex cropping systems can benefit soils

and contribute to "climate-smart" agricultural practices. Our team is composed of scientists from the University of Guelph and other Canadian universities.

What do you enjoy most about your work?

I enjoy being my own boss and setting my own objectives. There is some added pressure, but it makes my work very interesting. As a professor, I enjoy interacting with students and seeing their process in learning, watching them get more confident in science over time.

I also enjoy my interactions with farmers' organizations or conservation authorities that are looking into the more practical sides of our research.

What trends are you observing in the field of environmental sciences?

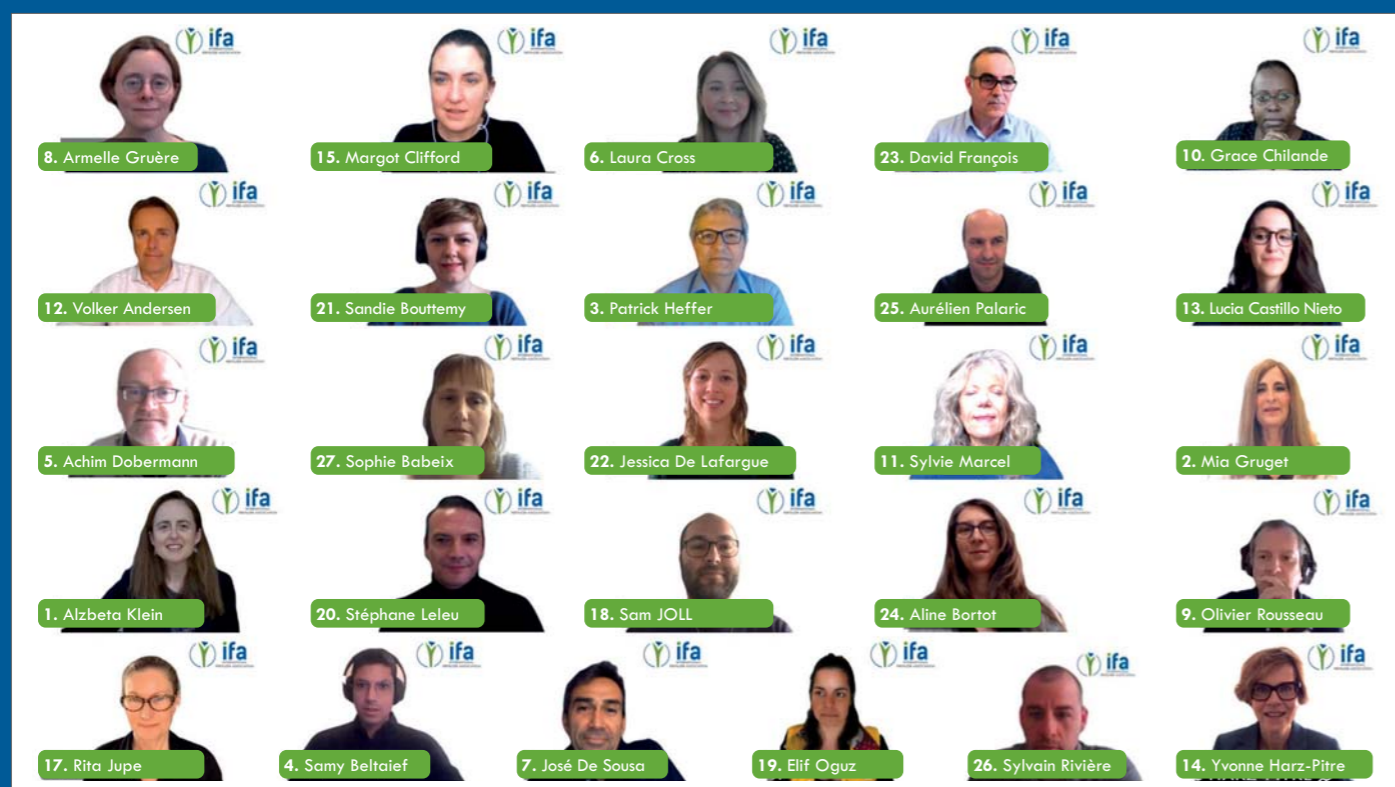
I'm seeing a lot of interest in soil health, and that is attracting students that may not have had an interest in agriculture otherwise. It's important to pay attention to that: we need the best minds to join agriculture research and help solve the big challenges ahead of us, for instance food security and climate change.

People are understanding now that soils are living organisms, and there are many ways of managing them and understanding them better. It is exciting an area to me that is emerging in environmental sciences within the agricultural sector.



photo credit: Cameron Ogilvie

IFA SECRETARIAT



DIRECTOR GENERAL'S OFFICE

1. **Alzbeta Klein**, Director General
2. **Mia Gruget**, Executive Assistant to the Director General and Member Services' Coordinator

DEPUTY DIRECTOR GENERAL'S OFFICE

3. **Patrick Heffer**, Deputy Director General
4. **Samy Beltaief**, Policy Analyst

SCIENTIFIC PROGRAM

5. **Achim Dobermann**, Chief Scientist

MARKET INTELLIGENCE SERVICE

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7. **José de Sousa**, Supply Program Manager
8. **Armelle Grùère**, Demand Program Manager
9. **Olivier Rousseau**, Senior Market Analyst-Potash & NPK
10. **Grace Chilande**, Fertilizer Demand Analyst
11. **Sylvie Marcel-Monnier**, Project Coordinator

SUSTAINABILITY SERVICE

12. **Volker Andresen**, Director
13. **Lucia Castillo Nieto**, Technical Analyst

PUBLIC AFFAIRS SERVICE

14. **Yvonne Harz-Pitre**, Director
15. **Margot Clifford-Laguet**, Public Affairs Analyst

COMMUNICATIONS AND MARKETING SERVICE

17. **Rita Jupe**, Director
18. **Sam Joll**, Communications Specialist
19. **Elif Oguz**, Graphic Designer

CONFERENCE SERVICE

20. **Stéphane Leleu**, Director
21. **Sandie Bouttemy**, Conference Planner
22. **Jessica de Lafargue**, Conference Planner

I.T. SERVICE

23. **David François**, I.T. Director
24. **Aline Bortot**, Webmaster

ADMINISTRATIVE SERVICE

25. **Aurélien Palaric**, Director
26. **Sylvain Rivière**, Accountant
27. **Sophie Babeix**, Communications Assistant

IFA MEMBERSHIP

At the end of 2020, the number of members of the Association reached 425 covering 69 countries. The various categories of membership were represented as follows:

164 Ordinary members **154** Associate members **42** Correspondent members **65** Affiliate members

NEW MEMBERS

During 2020, 12 new members were elected as follows:

ORDINARY MEMBER

- Chemical Industries Holding Company (Egypt)

ASSOCIATE MEMBERS

- Campo Rico Brasil Comercio de Fertilizantes S.A. (Brazil)
- Sulvaris Inc. (Canada)
- Sulzer Pumps Equipment (Finland)
- FertiGlobal (Italy)
- Nutrisource Pte Ltd (Singapore)
- TCIS Inspection Singapore Pte Ltd (Singapore)
- Phospholutions, Inc. (United States)

AFFILIATE MEMBERS

- European Biostimulants Industry Council (EBIC) (Belgium)
- Netherlands Organization for Applied Scientific Research (TNO) (Netherlands)

CORRESPONDENT MEMBERS

- Naveen Kumar Kapoor (India)
- Barrie Bain (United Kingdom)

RESIGNATIONS

There were 23 resignations during the year:

ORDINARY MEMBERS

- Guang Dong Zhanhua Group Cy Ltd (China P.R.)
- Siriac s.r.l. (Italy)
- Sasol (South Africa)
- Intrepid Potash Inc. (United States)
- Tiger-Sul Products LLC (United States)

ASSOCIATE MEMBERS

- Austrofin Mineralöl-und Derivate HGmbH (Austria)
- Milliken Europe BVBA (Belgium)
- DSM Produtos Nutricionais SA (Brazil)
- Enaex SA (Chile)
- Mine Arnaud Inc. (Canada)
- Vertical Exploration Inc. (Canada)
- Suifene Longsheng Economic & Trade Co. Ltd. (China)
- Delcorp SA (Ecuador)
- Solvay (France)
- Helm AG (Germany)
- Mekatrade (Switzerland)
- Heksagon Kati Atik Yönetimi Sanayi Ve Ticaret AS (HKA) (Turkey)
- Archer Daniels Midland Company d/b/a/ ADM Fertilizer (United States)
- Dasco Inc. (United States)
- Jiangnan Environmental Technology (JET) (United States)
- Kincannon & Reed (United States)

CORRESPONDENT MEMBERS

- L. Robert Zumker (Netherlands)
- Vivien Bright (United Kingdom)

NAME CHANGES

ORDINARY MEMBERS

- Hubei Xinyangfeng Fertilizer Co Ltd (China P.R.) has become Xinyangfeng Agricultural Technology Co Ltd
- New Karvali Fertilisers SA (Greece) has become Kavala Fertilizers Ltd.

Associate Members

- Jacobs Engineering SA (Morocco) has become JESA SA
- Yargus Manufacturing (United States) has become AGI Fertilizer Systems

OTHER CHANGES

ORDINARY MEMBER

- H.J. Baker & Bro., LLC (United States) has acquired Oxbow Sulphur and its international affiliates, also members of IFA.

ASSOCIATE MEMBERS

- The membership of Sino-Agri (CNAMPGC) (China P.R.) has been transferred to the ordinary category to reflect the company's producing activities.
- Informa's Agribusiness intelligence business (United Kingdom) has been acquired by IHS Markit (United States), also a member of IFA.
- Sirius Minerals Plc (United Kingdom) has been acquired by Anglo American Plc.
- Arrmaz (United States) has been acquired by Arkema (France), also a member of IFA.

MEMBERSHIP TERMINATION

ORDINARY MEMBERS

- Hubei Yihua Group LLC (China P.R.)
- Petrochemical Industries Company (KSC) (Kuwait)

ASSOCIATE MEMBERS

- Growmax Agri Corp. (Canada)
- El Waha Mining & Fertilizers – WAMFERT (Egypt)
- JAT Offshore SAL (Lebanon)
- Medifer Iberian Company, S.L. (Spain)

CORRESPONDENT MEMBER

Andrija Kojakovic (Croatia)

ELECTIONS IN 2020

BOARD MEETING OF 21 APRIL 2020

Patrick Heffer, Senior Director, Agriculture Service was appointed as Interim Director General of IFA (ex-officio) (effective as of 1 May 2020) following the departure of IFA's Director General Charlotte Hebebrand.

BOARD

CHAIRMAN, MARKET INTELLIGENCE COMMITTEE

- The term of Tony Will, CF Industries, United States was renewed for another two years.

CHAIRMAN, TECHNICAL & SHE COMMITTEE

- Appointment of Raviv Zoller, ICL, Israel

ANNUAL GENERAL MEETING OF 29 SEPTEMBER 2020

Appointment of following Board members:

LATIN AMERICA

- James Fowler, CMOC, Brazil

SOUTH ASIA

- Sameer Goel, Coromandel, India

WESTERN & CENTRAL EUROPE

- Giuseppe Natale, Valagro, Italy

The term of following Board members was renewed for another two years:

AFRICA

- Munish Jindal, Indorama, Nigeria
- William O'Neill, IRM, USA/Madagascar

EAST ASIA

- Mulyono Prawiro, P.T. Pupuk Sriwidjaja Indonesia, Indonesia

EASTERN EUROPE & CENTRAL ASIA:

- Andrey Guryev, Phosagro, Russian Federation

NORTH AMERICA

- Joc O' Rourke, The Mosaic Company, United States
- Tony Will, CF Industries, United States

OCEANIA

- Jeanne Johns, Incitec Pivot, Australia

SOUTH ASIA

- Tariq Khan, Fauji Fertilizer Company, Pakistan

WRITTEN CONSULTATION OF THE BOARD OF OCTOBER 2020

The Board resolved to create the position of Deputy Director General of the Association and appointed Patrick Heffer to this position (effective as of 11 January 2021).

GENERAL MEETING OF 6 NOVEMBER 2020

Alzbeta Klein was appointed as Director General of IFA and a member of the Executive Board (ex-officio) (effective as of 11 January 2021).

BOARD MEETING OF 16 NOVEMBER 2020

CHAIRMAN, AGRICULTURE COMMITTEE

- The term of Ian Hansen, Wesfarmers, Australia was renewed for another two years.

CHAIRMAN, COMMUNICATIONS & PUBLIC AFFAIRS

- Appointment of Samir Al-Abdrabbuh, SABIC, Saudi Arabia

STRATEGIC GENERAL MEETING OF 19 NOVEMBER 2020

The term of following Board members was renewed for another two years:

EAST ASIA

- Qin Hengde, Syngenta Group China, China P.R.

OCEANIA

- Ian Hansen, Wesfarmers, Australia

WEST ASIA

- Samir Al-Abdrabbuh, SABIC, Saudi Arabia

PAST ANNUAL CONFERENCES

2020-2029

2020 New Delhi *cancelled*

2010-2019

2019 Montreal 2018 Berlin 2017 Marrakech 2016 Moscow 2015 Istanbul
2014 Sydney 2013 Chicago 2012 Doha 2011 Montreal 2010 Paris

2000's

2009 Shanghai 2008 Vienna 2007 Istanbul 2006 Cape Town 2005 Kuala Lumpur
2004 Marrakech 2003 Philadelphia 2002 Lisbon 2001 Sydney 2000 Oslo

1990's

1999 Manila 1998 Toronto 1997 Beijing 1996 Berlin 1995 Singapore
1994 Istanbul 1993 New Orleans 1992 Seoul 1991 London 1990 Vancouver

1980's

1989 Budapest 1988 Monte Carlo 1987 Orlando 1986 Bangkok 1985 Munich
1984 Mexico City 1983 Vienna 1982 Palma de Mallorca 1981 Singapore 1980 Monte Carlo

1970's

1979 Rio De Janiero 1978 Cannes 1977 Copenhagen 1976 London 1975 San Francisco
1974 Tenerife 1973 Rome 1972 Deauville 1971 Amsterdam 1970 Athens

1960's

1969 Burgenstock *Lucerne* 1968 Berlin 1967 Monte Carlo 1966 Miami Beach 1965 Lisbon
1964 m/v Cabo 1963 Lausanne 1962 Vienna 1961 Casablanca 1960 Venice san Roque

1950's

1959 Biarritz 1958 Copenhagen 1957 Scheveningen 1956 London 1955 Hamburg
1954 Lisbon 1953 Stockholm 1952 Cannes 1951 Lucerne 1950 Madrid

1940's

1949 Copenhagen 1948 Brussels 1947 Eastbourne 1946 Paris 1945-1940 No conferences

1930's

1939 The Hague 1938 Rome 1937 Paris 1936 Budapest 1935 Gleneagles
1934 Lisbon 1933 Paris 1932 Copenhagen 1931 Baden-Baden 1930 Interlaken

1920's

1929 Vienna 1928 Stockholm 1927 Hamburg

PAST PRESIDENTS

2017-19
R. Kapur

2011-13
W. Doyle

2005-07
S. Wu

1999-01
E. Tirkkonen

1993-95
E. Öner

1987-89
G.P. Giusti

1981-83
J. Miro Chavarria

1975-77
W.J. Turbeville, Jr.

1969-71
J.D. Waller

1959-62
H. Stevenius-Nielsen

1949-53
R. Standaert

1927-37
E.G. Martens

2015-17
A. Jawahery

2009-11
A.S. Shriram

2003-05
J.M. Van Brunt

1997-99
U.S. Awasthi

1991-93
B.B. Turner

1985-87
A.B. Al-Nouri

1979-81
G. Artaud

1973-75
A. Robinson

1965-69
G.M. Mason

1956-59
R. Grandgeorge

1946-49
A. Waller

2013-15
E. Mete

2007-09
T. Enger

2001-03
W. Puggina

1995-97
C.E. Childers

1989-91
W. Klaassen

1983-85
K.H. Tillmann

1977-79
P. Latteur

1971-73
R. Mathieu

1962-65
J. Capelo Portabella

1953-56
D.J. Bird

1937-39
E. Berr

FINANCE

Compared to 2019, total operating income decreased by 39 per cent in 2020 and reached some € 5.47 million resulting from income from subscriptions and meetings for € 5.47 million and € 0.38 million, respectively. This is mainly due to the Covid-19 pandemic which led to the cancellation of the Annual Conference planned in Delhi and the organization of the IFA Crossroads Asia-Pacific Conference and the Strategic Forum/High-level Forum on Sustainable Plant Nutrition under a virtual format. Overall, income from Conferences and meetings dropped by nearly 90 per cent between 2019 and 2020.

Operating Expenditure has decreased by 20% from € 9.59 million in 2019 to 7.66 million this year. The main savings concerned the staff costs on account of the reorganization of the IFA Secretariat; and the organizational costs of the conferences and meetings which were halved compared to 2019. However, these remained quite significant owing to the € 680,000 loss associated with the Delhi Conference. On the other hand, there was an increase of the recruitment fees and the provision for unpaid subscriptions and bad debts.

The other main change in 2020 is the implementation of the Scientific Panel in Responsible Plant Nutrition. It was financed with the reserves transferred from IPNI which was dissolved in June 2019. The total expenses related to the Scientific Panel amount to about € 501,600 in 2020.

As regards the financial activity, a surplus of € 39,500 stemming from the sales of the long-term financial investments during the first quarter 2020 was recorded in 2020.

In summary, the year 2020 ended with a deficit of about € 1.7 million against a surplus of some € 93,000 in 2019.

Details of the Association's financial situation in 2020 are provided in the "Audited Accounts at 31 December 2020" attached to the Annual Report.



