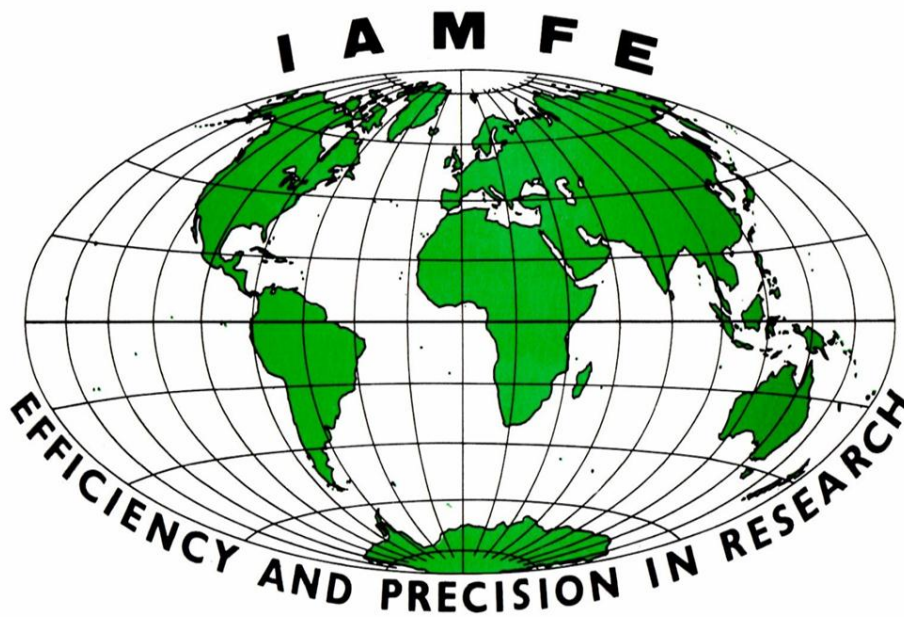


Newsletter of IAMFE

IAMFE News 1,2016



Edited by the IAMFE Secretariate

August 23, 2016

www.iamfe.org

Greetings 2016 from the Founder and Honorary President of IAMFE

By Egil Øyjord

I am very happy to send my Greetings and Thanks to the President of the Russian Branch of IAMFE, Academician Dr. Vladimir Popov as well as the Secretary of the Russian Branch and Vice President of IAMFE Dr. Vladislav Minin for arranging our 15th International Conference and Exhibition of IAMFE/RUSSIA which will take place in Moscow, June 26-30, 2017.

I also wish to send my congratulations and thanks to the President of IAMFE, Prof, Shang Shuqi and the Executive Secretary, Prof. Wang Jiasheng, for their excellent leadership and management of our International IAMFE Centre at Qingdao Agricultural University.

I wish to express my great satisfaction and thanks to Prof. Wang Jiasheng for the marvellous new and updated the homepage (www.iamfe.org) for IAMFE at Qingdao Agricultural University.

Last, but not least, I wish to express my gratitude to Mr. Torbjorn Leuchovius, Executive Secretary of IAMFE from 1993 to 2004. Torbjorn Leuchovius established the homepage for IAMFE at the Swedish University of Agriculture and started IAMFE News in 1994. Torbjorn Leuchovius was editor of this important link between the leaders and members of IAMFE up to Dec.2014. In this position he recorded the history of IAMFE.

It is a great pleasure to wish Prof. Wang Jiasheng welcome as the new editor of IAMFE News. This is a key position for continuing the progress of IAMFE.

In August 1970 I showed my selfpropelled plot seeder to the Nobel Peace Prize winner 1970, Dr. Norman E. Borlaug. In a letter of Nov. 13, 1970, Dr. Borlaug wrote: *"It will be a pleasure to work with you and IAMFE in the furtherance of the green revolution"*.

In a letter of Dec. 22, 1970, Dr. Borlaug wrote: "*The small plot seeders have been very helpful in increasing the reliability of experimental results in India, Tunisia, Lebanon etc.*".

Based on these statements from Dr. Norman E. Borlaug, I concentrated my efforts in the development of IAMFE and production of the Øyjord plot seeders which from 1960 to 1976 were exported from Norway to 57 countries in the world, all continents were represented. To illustrate the maximum capacity obtained, please see "Quotations of letters from the users of Øyjord plot seeders" in the "History of Øyjord plot seeders" to be found on the IAMFE website. A report from Lebanon 1972 stated: "2 men in 3 hours drilled the same number of plots as 15 persons sowed by hands in 20 days". This was a 400 fold increase in efficiency. The evaluation of varieties was also better because the varieties were sown the same day. Quotations of other letters show an increase in efficiency of 5 to 20 fold. In 1974 I started to transfer the production of the Øyjord plot seeders from Norway to Austria and Germany.

I wish to thank and congratulate Qingdao Agricultural University with the marvelous website of IAMFE. Write www.iamfe.org and see the 52 year history of IAMFE.

In 1979 I was invited as a guest scientist to the International Maize and Wheat Improvement Center (CIMMYT) in Los Banos, Mexico, where the Nobel Peace Prize winner 1970, Dr. Norman E. Borlaug was employed and developed the dwarf wheat varieties which have saved a milliard people in India, Pakistan and other countries. I filmed two of my selfpropelled plot seeders in operation. You can see Mexico 1979 on Google. Write youtube egil øyjord. Go to YouTube and click to see the movie from Mexico and movies of IAMFE from IAMFE Conferences in Czechoslovakia 1972, USA 1976 and Netherlands in 1980.

My best greetings to the leaders, members and friends of IAMFE.

Greetings from the President of IAMFE

By Professor Shang Shuqi

At IAMFE/China 2012, the Executive Committee of IAMFE decided that the 15th International IAMFE Conference and Exhibition on Mechanization of Field Experiments should take place in Egypt in 2016. Prof. Shaban Abou-Hussein, a member of the Executive of IAMFE, assumed the responsibility for this event. Because of the political situation in Egypt, this plan had to be cancelled.

I am very pleased that the Vice President of IAMFE, Dr Vladislav Minin and the President of the Russian Branch of IAMFE, Academician Dr. Vladimir Popov were able to get the All-Russian Institute of Agricultural Mechanization (VIM) and Moscow Academy of Agriculture to take the responsibility for arranging IAMFE/RUSSIA in Moscow June 26-30, 2017.

I am very grateful to the Russian Organizing Committee and the Russian Branch of IAMFE for their excellent preparations of this event.

I am also very pleased that the First Announcement of IAMFE/RUSSIA 2017 will be presented in this IAMFE News 1, 2016.

I wish to express my sincere appreciation and thanks to the Founder of IAMFE, Prof. Egil Øyjord; the Vice President of IAMFE, Dr. Vladislav Minin; Mr. Torbjorn Leuchovius; Mr. Rolf Zurn from Zurn, Germany; and Miss Yu Qiang from Haldrup, Germany.

In addition, I also wish to express my sincere appreciation and thanks to all the other persons who have made efforts and communication with important persons from the suggested host countries.

In March this year, the domain and website server of IAMFE were successfully transferred from New Zealand and Sweden separately to QAU. By the combined efforts of Dr. John Stevens, Mr. Torbjorn Leuchovius and Dr. Wang Jiasheng, a renewed website for IAMFE has successfully been established at Qingdao Agricultural University. You will see this on the renewed website of IAMFE.

I wish to express my appreciation to all who have contributed to the progress of the IAMFE family.

Invitation to the 15th International IAMFE Conference and Exhibition

Dear IAMFE members and persons who are interested in technical maintenance of field experiments!

We invite you to participate in the 15th International IAMFE Conference and Exhibition which will take place on the 26th – 30th of June, 2017 in Moscow.

International IAMFE Conferences and Exhibitions always become an important international event which advances further ideas on mechanization, automation and robotics of field experiments, giving us the opportunity to exchange the newest information on this subject and to find new useful contacts.

This IAMFE Conference and Exhibition will occur during a critical time when questions of development of agriculture and foodstuffs for an increasing population in the world are drawing increasing attention of the Society. New technical possibilities will accelerate the creation of new varieties and the development of more effective agricultural technologies. Recently, a special attention is being given to studying of agriculture's influence on the environment and the development of methods for growing plants sustainably based on the results of field experiments.

The 15th International IAMFE Conference and Exhibition will try to find ways to answer these and other questions by offering methods and techniques for effective field experimentation.

As organizer of IAMFE/RUSSIA 2017 in Moscow I wish to give the following information:

- The All-Russian institute of mechanization of agriculture has fifty years of experience in designing and releasing of technical devices and tools for field experiments
- Russian State Agrarian University - Moscow Timiryazev Agricultural Academy is offering training in the technique of field experimentation
- The Russian Branch of IAMFE, includes agronomists, plant breeders, engineers, students and others who are interested in the results of field experiments.

From the Chinese side the Qingdao Agricultural University active participates in the organizing issues of the 15th International IAMFE Conferences and Exhibitions, the University has reached impressive successes in working out techniques for field experiments.

The Honorable Chairman of the 15th International IAMFE Conferences and Exhibitions is Egil Øyjord, IAMFE Founder and Honorable President.

Co-Chairs:

Academician Andrey Izmaylov, Director of the All-Russia institute of mechanization of the agriculture;

Academician Viacheslav Lukomets, Rector of the Russian State Agrarian University;

Academician Vladimir Popov, the President of Russian branch IAMFE;

Professor Shang Shuqi, IAMFE President.

Up to now many examples of techniques and tools for field experiments were created and produced.

The further development of this area of knowledge is carried out, mainly, in two directions:

- Increased precision and automatization of techniques and devices for sowing, cultivation, harvesting, cleaning, and treatment of seeds of the basic crops;
- There is a wide variety of agricultural crops in the World, so it is necessary to have suitable equipment for carrying out field experiments.

Moreover, IT actively used in these studies for collecting, processing, storing and presenting experimental data for collecting, processing, storing and presenting experimental data.

We invite you to reserve date 26th - 30th of June, 2017 for participation in the 15th International IAMFE Conferences and Exhibitions and encourage you to registry in due course.

You may register on the web-site <http://kirkatin.wixsite.com/iamfe2017>.

All your questions are welcome at e-mail: minin.iamfe@mail.ru,
hotel@iamfe2017.org.

Vladislav Minin,

IAMFE Vice-PreSident



IAMFE - RUSSIA – 2017

International Association on Mechanization of Field Experiments (IAMFE)

***EFFICIENT AND EFFECTIVE FIELD EXPERIMENTS
TO SOLVE THE PROBLEMS OF FOOD SECURITY OF THE PLANET***

June, 26 – 30, 2017

Moscow, Russian Federation

FIRST ANNOUNCEMENT

***15th International Conference and Exhibition on Mechanization of Field Experiments
IAMFE/RUSSIA 2017***

Programme

The scientific programme includes plenary sessions, oral presentations and poster session and Master–Class. Professional tours will be organized.

Exhibition

Exhibition of agricultural machinery, equipment and instruments will be held on the basis of All-Russian Scientific Research Institute of Agricultural Mechanization (FGBNU VIM);

Exhibition of devices for field research and to analyze the properties of soil and plants, as well as the software will be carried out in the same place where the Conference (tourist complex Izmailovo).

Equipment, instruments and stands will be exhibited indoors; machinery and tools for field experiments - on the open ground.

Topics

- General and methodological issues of field experiments management;
- General issues of mechanization and application of automatic and robotic devices in field experiments;
- Technical support of crops breeding and seed production;
- Information technologies in field experimentation;
- Hardware and equipment to assess the status of plants in the field;
- Methods, management and tools for field study of plant environment;
- Experimental fields, belonging to universities and research institutes, using for scientific, education and demonstration purposes;
- Country reports: National experience on mechanization and organization of field experiments;
- Features of ensuring environmental and agronomic safety during special purpose field experiments (organic and with transgenic plants and others).
- Technologies and technical tools for breeding and seed production of cereals, perennial grasses, potato, fruits and berries and rice.

Language

Conference languages will be English and Russian, with the simultaneous translation being provided during the sessions.

Abstracts and paper submission. Conference Proceedings.

- Abstracts are accepted **in English** and shall be published in Conference Proceedings.
- Full papers for Conference Proceedings and poster sessions are accepted **in English or Russian** and shall be available on CD-ROM.
- Best papers will be published in Russian scientific journal “Agricultural Technologies and Machinery” and others.
- The Guidelines for Authors will be presented in the Second Announcement.

Deadlines

Submission of abstracts	1 March, 2017
Notification of acceptance	30 March, 2017
Submission of full papers	30 May, 2017
Early-bird registration	1 February, 2017
Late registration	15 June, 2017
Registration for Exhibition	15 May, 2017
Final Conference programme	20 June, 2017

Conference Fees

Type of registration fee	Early birds, Euro	Registration, Euro
Conference		
Ordinary	360	400
IAMFE member	325	360
From Russia and CIS	180	200
IAMFE member from Russia and CIS	162	180
Correspondence participation	30	30
Exhibition		
Ordinary	260	300
IAMFE member	235	260
From Russia and CIS	130	145
IAMFE member from Russia and CIS	120	130
Exhibition place, 4 square meters in the complex Izmailovo	375	375
Exhibition place in VIM	50	50
Accompanying person	200	200
Professional tour on 29.06.2017	80	80
Professional tour on 30.06.2017	100	100
Conference dinner	35	35

- *PhD students will have discounted rates*

Conference registration fee includes the following costs: visa support, Cocktail on the first Conference evening on June 27, 2017, participation in scientific sessions and workshops, coffee-breaks, lunches on June 27 and 28, interpretation at meetings and Proceedings of Abstracts. Accommodation and travel costs are not included.

Exhibition registration fee includes the following costs: visa support; Cocktail on the first Conference evening on June 27, 2017; participation in the exhibition and workshops; lunches on June 27 and 28; assistance in the exhibition space and business meetings organizing; placement of company information in the Exhibition Catalogue and the Conference Proceedings.

Registration fee of accompanying persons includes the following costs: visa support, Cocktail on the first Conference evening on June 27, 2017; lunch 27 and 28 June 2017; four-hour tours 27 and 28 June 2017.

Registration fee for professional trip includes: transport service, guide, interpreter, paid excursions and lunch.

Conference venue

The Izmailovo Gamma-Delta Hotel is an enormous complex offering budget-priced accommodation and modern conference facilities with 16 conference halls and meeting rooms, all technically well-equipped, just a short metro ride from the center of the city. Built on the site of the historic Izmailovo Estate - where Peter the Great grew up - the hotel offers decent rooms and good facilities at very reasonable rates. Metro station is located in 2 min walk from the hotel. The Izmailovo Gamma-Delta Hotel is only six stops by metro from Red Square.

Accommodation

Izmailovo Gamma Block 3*

Address: 71, Izmailovskoe Shosse, Moscow, 105318, Russia

Nearest metro: Partizanskaya

Part of the Izmailovo Hotel Complex, built to house visitors to the 1980 Moscow Olympics, the Izmailovo Gamma Hotel is a low-cost hotel offering clean and spacious accommodation and fast access to the centre of Moscow. Extensive business and leisure facilities are shared with the neighboring Izmailovo Delta Hotel.

* Our special discounted rates for conference participants

Room category: *Standard Plus*

Standard Plus Rooms measure 21 square meters, they were renovated in 2013, and so have fresher décor and furnishings. Furniture includes queen-size bed, writing desk, coffee table, and two chairs. Under request there are available rooms with 2 separate beds.

- single accommodation - Euro 55 per room per night

- double/TWIN accommodation - Euro 65 per room per night.

Rates include VAT (18%) and daily buffet breakfast.

NOTE: these rates are applied only for bookings which are done through conference service agent - BSC APEX Ltd. Please contact: hotel@iamfe2017.org

Izmailovo Delta Block 4*

Address: 71, Izmailovskoe Shosse, Moscow, 105318, Russia

Nearest metro: Partizanskaya

Aspiring to international 4-star standards, the Izmailovo Delta offers simple but comfortable accommodation and a wide range of business and leisure services.

The Izmailovo Delta is one of two adjoined tower-blocks managed by the same company (the Izmailovo Gamma tower is classified as three-star, while the Delta has slightly superior accommodation), with space for a total of over 3 500 guests.

*** Our special discounted rates for conference participants**

Room category: *Business Class Premium*

Costing only slightly more than regular Standard Rooms at the Izmailovo Delta Hotel, Business Class Premium Rooms feature slightly newer interiors, but also measure 21 square meters and have the same level of amenities. Furniture in these double rooms includes queen-size bed, writing desk, coffee table, and two chairs. Under request there are available rooms with 2 separate beds.

- single accommodation - Euro 65 per room per night

- double/TWIN accommodation - Euro 75 per room per night.

Rates include VAT (18%) and daily buffet breakfast.

NOTE: these rates are applied only for bookings which are done through conference service agent - BSC APEX Ltd. Please contact: hotel@iamfe2017.org

Please note that our allotment has limited number of rooms and early booking will secure your accommodation during the conference at discounted rates.

The International Organizing Committee

Honorable Chairman: Egil Øyjord, IAMFE Founder and Honorable President

Co-Chairs: A. Izmailov, V. Lukomets, V. Popov, Shang Shuqi

Chairman of Scientific Committee: Yu. Lachuga

Members:

Yu. Ahlamov

B. Ruzhyov

V. Belyakov

I. Smirnov

Yu. Chesnokov

V. Starovoytov

R. Gurov

S. Shirokov

F. Ivanov

A. Trifanov

D. Khomiakov

S. Yankin

A. Kartoshkin

Egil Øyjord

N. Kinev

Torbjorn Leuchovius

V. Kosolapov

John Stevens

Ya. Lobachevsky

John Hempton

S. Lukin

Song Xiyun

D. Maksimov

Shang Shuqi

V. Minin

Wang Jiasheng

Welcome!

International Association on Mechanization of Field Experiments (IAMFE); Russian Academy of Sciences; All-Russian Research Institute of Agricultural Mechanization; Russian State Agrarian University - Moscow Timiryazev Agricultural Academy; Qingdao Agricultural University (China); Research Institute for Engineering and Environmental Problems in Agricultural Production; Agro-Physical Research Institute and Interregional public organization "Association for Sustainable Rural Development" have an honour to invite you to the 15th International Conference and Exhibition on Mechanization of Field Experiments in Moscow, Russia.

IAMFE attaches great importance to an integrated approach in the organization of field experiments using advanced information technologies, mechanization, automation and robotics. The meetings of engineers, plant breeders, ecologists and biologists, and joint discussions provide the synthesis of new ideas, the emergence of technical solutions, which meet the needs of users.

The conference and exhibition aim to become a platform for the exchange of scientific ideas, public consideration of ways of methodological and instrumental support of agro-biological field studies, cooperation in the field methods of experimentation and technology. All this will contribute to the progress in the production of agricultural and horticultural products and food security on a global scale.

Professor Shang Shuqi, President of IAMFE

*Academician Vladimir Popov, Russian Representative of IAMFE,
President of the Association for Sustainable Rural Development*

Academic Seminar on Agricultural Mechanization between QAU and SNU was held at QAU

By Dr. Wang Jiasheng

Academic Seminar on Agricultural Machination between Qingdao Agricultural University (QAU) and Seoul National University (SNU) from Korea was held in QAU on June 23, 2016. The China Branch of IAMFE was responsible for organizing this activity. Three Korean delegates, Prof. Yong-Ro Kim, Prof. Hak Jin Kim and Dr. Ghi Seok Kim from SNU were invited to present this academic seminar. The President of IAMFE, Prof. Shang Shuqi gave a welcoming speech at the opening ceremony. The Executive Secretary of IAMFE, Dr. Wang Jiasheng moderated the seminar. Seven presentations in the field of agricultural mechanization were given by three Korean delegates and four Chinese delegates on that day. On behalf of IAMFE, Dr. Wang Jiasheng gave a detailed lecture on the history and development of IAMFE. Prof. Shang Shuqi gave a presentation on the development and research work on the mechanization of field experiments in China. The three Korean experts also introduced their research work and the development on mechanization of field experiments in Korea. All the delegates exchanged their research interests and research achievements and discussed the future developments.

After the academic seminar, the Korean delegates visited the IAMFE International Centre Office and the laboratory of the College of Mechanical and Electrical Engineering where several plot seeders (drills) and plot harvester combine were displayed. The Korea delegates were very interested in IAMFE and the activities organized by IAMFE. They expressed their willingness of keeping in touch with IAMFE and finding possibility to cooperate with QAU on the research of plot machinery.



Prof. Shang Shuqi was giving welcome speech



Dr. Wang Jiasheng was moderating the seminar



The presentations



Prof. Shang Shuqi



Prof. Hak Jin Kim



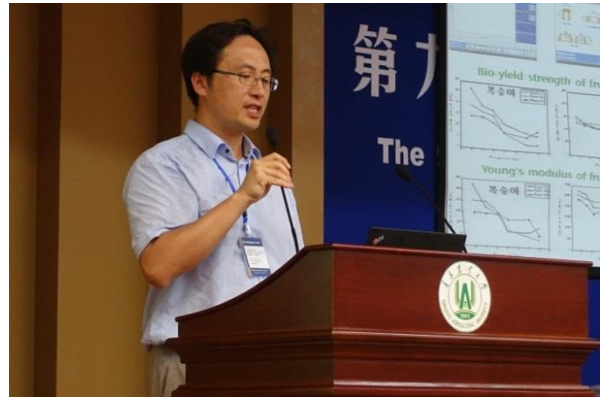
Prof. Li Juan



Prof. Yong-Ro Kim



Dr. Li Xicheng



Dr. Ghi Seok Kim



Dr. Wang Jiasheng



Prof Shang Shuqi moderated the closing ceremony



Visiting IAMFE International Centre Office



Visiting plot seeders in the laboratory

The 51th China Science and Technology Forum

National Seminar and Exhibition on Mechanization of Plant Breeding

By Wang Jiasheng

The 51th China Science and Technology Forum—National Seminar and Exhibition on Mechanization of Plant Breeding was held successfully at Gu'an, Heibei Province on July 30 to July 31. This event was co-organized by China Science and Technology Association, Chinese Branch of IAMFE, China seed Association and Qingdao Agricultural University. More than 180 delegates from agricultural universities and institutes as well as government administration departments, seed companies and farm machinery manufacturers of all provinces in China participated in the seminar and exhibition.

China Science and Technology Forum is the highest level academic forum in China. A total of 51 forums had been held since New China was founded, and only two forums among them were about the field of agricultural engineering. It means mechanization of field experiments has been seen as one of the least important industries that impact national development in China. The theme of this seminar is "Improving the mechanization of plant breeding, promoting the development of seed industry in China". 10 keynote academic presentations around the theme were given by the academician, scientists and experts in this area, and all the delegates discussed and exchanged ideas on how to develop the crop breeding mechanization to improve China's seed industry.

The latest plot seeders/drills and plot harvesters developed by research team of Chinese Branch of IAMFE were exhibited at the same time. All delegates were very interested in the plot machinery, particularly agricultural scientists and plant breeders. Many of them would like to buy machines on the spot. The research team of Chinese Branch of IAMFE is headed by the President of IAMFE, Prof. Shang Shuqi. The purpose of establishing the research team is to develop mechanization technology and equipment and to promote the efficiency and precision of field experiments in China. More than 10 plot seeders/drills, plot combines and measuring yield equipment

had been developed by the research team through cooperation with agricultural machine manufacturers. This equipment and instrumentation is suitable for the local agronomic requirements and cropping patterns in China, and costs of the machines is also affordable for Chinese plant breeding institutes and seed companies.



Prof. Shang Shuqi moderated the seminar





Some keynote presentations



The delegates were listening to the presentations at the seminar



Prof Shang Shuqi was introducing a plot seeder





Some plot equipment in the exhibition