



**IAMFE - INTERNATIONAL ASSOCIATION ON MECHANIZATION OF
FIELD EXPERIMENTS**

IAMFE News 2'2010

January, 2011

New Year's Greetings 2011 from the President of IAMFE

By Prof. Shang Shuqi, the President of IAMFE

Dear Leaders, Members, and Friends of the IAMFE Family,

Happy New Year! On this happy occasion of the New Year, please allow me to extend my best wishes and sincere greetings to you and your families!

The year of 2010 has past, I'm pleased that our IAMFE family had made new progress in last year, and thank you very much for your hard work and your cooperation in 2010.

Regional IAMFE Conference of the Nordic Countries was held in St. Petersburg, Russia on September 22-24, 2010. It's really a great and successful conference, I am grateful to the Russia branch and all the members of Organizing Committee for their hard work.

On August 21~23, 2010, National Conference on Breeding and Seed Processing Mechanization which was sponsored by Chinese branch of IAMFE was held in Qingdao China. More than 100 Chinese experts and scholars who work in the field of breeding and agricultural engineering attended the conference as well as dozens of high quality papers were accepted. During the conference, they discussed the development of field experiments in China and exchanged their newest research achievements. At the same time, there were more Chinese scholars knew about and interested in our IAMFE in this conference, and many people had the mind of applying for the membership of China branch of IAMFE.

Now in China, we are preparing for the 14th International Conference and Exhibition on Mechanization of Field Experiments, and the various programmes of the conference preparatory work have been progressing well so far. I believe IAMFE CHINA 2012 will also be a successful and great conference.

The New Year is a time for a new beginning and new hopes for the future. We will work hard towards our goals, and I hope that we all will get more progress and success in the coming year.

Happy New Year!

Kind regards and best wishes!

Qingdao China, January 2011

Dr. Shang Shuqi

New Year's Greetings 2011 from the Founder of IAMFE

By Prof. Egil Øyjord, Founder President of IAMFE

Dear Leaders, Members and Friends of IAMFE,

I wish to send you my greetings and thank you for your efforts for IAMFE in 2010.

I am very pleased to report that from July 6th to July 8th our earlier Executive Secretary, Torbjörn

Leuchovius and our present Executive Secretary, Dr. Vladislav Minin visited with me. We enjoyed old friendship and discussed IAMFE matters. On September 23, Torbjörn Leuchovius and the IAMFE Acting President 2005-2008, Dr. John Stevens, New Zealand, made a short visit with me on their one day trip to Norway.

December 8th a Chinese delegation visited the Norwegian University of Life Sciences (UMB) and Bioforsk Plant Health and Protection Centre. I had the honour to inform the delegation about our University and the history and aims of IAMFE. At present it is 3843 students at UMB and 48 students from China. Prof. Guo Peiyu, Founder of the Chinese Branch of IAMFE, was a member of the delegation and a very good helper in informing about the good relation between IAMFE and China.

I wish to take this opportunity to convey my thanks to the Norwegian host of the delegation, Mr. Leif Thore Bjertnaes for 15 years of efforts in transferring advanced technology on vegetable growing to a large number of Chinese students.

I am very pleased to inform you about an easy and rapid way to get information about the relation between IAMFE and the various countries of the world. In order to obtain this information you should go to Google and write IAMFE and the name in English of the country you wish to investigate and click. For China, which will arrange our IAMFE CHINA 2012 Conference and Exhibition, you should write IAMFE CHINA and click. You should also try it out for IAMFE INDIA, IAMFE USA and other countries.

I hope you will study the Preliminary programme of IAMFE CHINA 2012 and decide to participate and contribute to this great event. Please also see: www.iamfe.org.cn and www.iamfe.org

I will take this opportunity to thank you all for your efforts for IAMFE in 2010.

I hope you had a Peaceful Christmas and wish you a Happy New Year!

Norway, January 2011

Egil Øyjord

Informal network www.oatnet.org on breeding and growing of oats

By Mr. Torbjörn Leuchovius, Research leader, Swedish University of Agricultural Sciences

As a result of a start-up meeting held on 28 Sep. 2010 at the South/Alnarp branch of the Swedish University of Agricultural Sciences (SLU), an informal network was established with the aim to promote information exchange and cooperation regarding the breeding and growing of oats. Oats is the world's 6th most common cereal, mainly because it is used for fodder in many developing countries. Oats has also unique properties when used in human foods and the large fat content makes it interesting as producer of industrial oil etc. Contrary to most other crops, oats is not represented by a CGIAR international centre or the like. Maybe in the future, some kind of international centre could be established.

The network is not formal and those interested can visit the webpage www.oatnet.org and read more about the start-up initiative. The startup meeting had participants from Denmark, New Zealand, Norway, Sweden and Russia all examples of countries (also Finland should be added) having breeders actively working with oats.

Annual Summary of Chinese Branch of IAMFE works in 2010 and Plan in 2011

By Chinese Branch of IAMFE

I Annual Summary

A. 2010 National Conference on Breeding and Seed Processing Mechanization was held successfully

2010 National Conference on Breeding and Seed Processing Mechanization which was sponsored by Chinese Branch of IAMFE was held in Qingdao China on August 21~23, 2010. More than 100 Chinese experts and scholars who work in the field of breeding and agricultural engineering all over the nation attended the conference as well as dozens of high quality papers were accepted. The conference topics include breeding technique of crops and vegetables, design and management of field experiments, seed production and seed testing, seed processing machinery and equipment, application of advanced technologies to field experiments, and so on. Around the topics, 35 academic lectures were given by the experts and scholars in this conference, and the delegates discussed the development of field experiments in China and exchanged their newest research achievements. This conference has strengthened the communion and cooperation between breeding experts and agricultural mechanization experts in China and promoted the development of our county's field experiments. At the same time, we gained more experiences for organizing the conference of IAMFE /China 2012.

B. Prof. Shang Shuqi attended and addressed Regional IAMFE Conference of the Nordic Countries, and gave a theme lecture in the conference

Regional IAMFE Conference of the Nordic Countries was held in St. Petersburg, Russia on September 22-24, 2010. As the president of IAMFE, Prof. Shang Shuqi attended and addressed the conference. The Nordic branches of IAMFE play a great role on the development of field experiment of Nordic countries. Prof. Shang Shuqi spoke highly of their hard work and their achievements since IAMFE Denmark 2008. And then Prof. Shang introduced the preparation of the 14th International Conference and Exhibition on Mechanization of Field Experiments. Prof. Shang also gave a theme lecture of "Development of IAMFE and Achievements of China" which was received favorable comments of the delegates, and some research institutes had the mind to look for cooperation with China after the conference. During the conference, Prof. Shang was invited to visit Institute of Agricultural engineering and electrical engineering, Russia Academy of Agricultural Sciences, and was received warmly by Prof. Efimov Viktor, the president of Saint-Petersburg State Agrarian University. They also discussed the subjects that concerned with technical cooperation and academic exchange between the two universities.

C. Some research results were achieved in the plot seeder research

Some research results were achieved in the plot seeder research project (supported by Qingdao Agricultural University) which was led by Prof. Shang Shuqi, and the project technical appraisal (or acceptance) will be accomplished at the end of 2010. A type of electrical-control plot seeder was developed in the project. Compare with traditional plot seeders, the working performance and working efficiency of the advanced plot seeder have been improved more, and work intensity of people has been reduced sharply. 4 invention patents and 4 utility model patents have been applied in the project, and 6 papers have been published based on the study of the project.

D. A committee meeting of Chinese Branch of IAMFE was held in Beijing

A committee meeting of Chinese Branch of IAMFE was held in China Agricultural University, Beijing, China on November 1st, 2010. Prof. Shang Shuqi, Prof. Guo Peiyu, Prof. Chen Shaojiang, Prof. Sun Qun and Mrs. Xu Li attended the meeting. Preparatory work of the 14th International Conference and Exhibition on Mechanization of Field Experiments was discussed at the meeting, and the theme of conference, the sponsors, organizer and supporters were determined primarily; the members of organize committees and scientific committee, the experts who would be invited from home and abroad, conference financing and other details of the conference were discussed at this meeting. Besides that, the committee members augment and personal change of our Chinese Branch of IAMFE were discussed at this meeting.

E. Others

In order to enlarge the effect of IAMFE in China, we are always publicizing actively the work and function of our association by various means. More and more people are beginning to pay attention to our association. There were 26 new members joined our Chinese Branch of IAMFE in this year. We also got the guidance and help from the chief leaders of Chinese Society of Agricultural Engineering, and Academician Wang Maohua also arranged a meeting with Prof. Shang Shuqi. They discussed the research and development of mechanization of field experiments, and analyzed how to improve the development of breeding mechanization in China. Academician Wang recognized fully to the great role which Chinese Branch of IAMFE plays.

II Plan in 2011

- (i) Preparatory work of the 14th International Conference and Exhibition on Mechanization of Field Experiments will be what we focus on in 2011. All aspects of the preparing work will be all-around implemented for assuring that IAMFE/China 2012 can be held successfully.
- (ii) Research and popularization of field experiment machinery and techniques will be carried out continually.
- (iii) Attending to “ the 45th America International Exhibition on Agricultural Mechanization” which will be held in February 2011 for achieving more exchange.

Qingdao China, December 2010

Chinese Branch of IAMFE



IAMFE/China 2012



The first Announcement of

the 14th International Conference and Exhibition on Mechanization of Field Experiments

Oct, 12-14 2012 Qingdao, China

<http://www.iamfe2012.org> and www.iamfe.org.cn

The 14th International Conference and Exhibition on Mechanization of Field Experiments will be held in Qingdao China on Oct 12-14, 2012. This conference is sponsored by International Association on Mechanization of Field Experiment (IAMFE). The aim objective of this conference is to provide a platform for researchers, scholars, experts as well as engineers from all over the world to present their research results and development activities in mechanization of field experiments. Experts and scholars from many countries of the world will be invited to give topic lectures. At the same time, the newest and the most advanced mechanical products on field experiments from all over the world will be exhibited in this conference. The conference provides opportunities for the delegates to exchange their new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration.

The conference language is English. Papers, posters and oral presentations must be in English. Submitted conference papers will be reviewed by academic committees of the Conference. All accepted papers will be published in the conference proceedings, which will be indexed by Ei.

I Conference organization

1. Sponsors

International Association on Mechanization of Field Experiment (IAMFE).
Chinese Society of Agricultural Engineering.

2. Organizer

Qingdao Agricultural University
Chinese Branch of IAMFE

3. Supporters

Chinese Seed Association.
China Agricultural University

II Date and Location

Conference Date: Oct.12-14, 2012.

Conference Location: Qingdao, China.

III Committees

Honorary Chair:

Prof. Dr.hc Egil Øyjord, Founder, Honorary President and Patron of IAMFE, Norway.
Prof. & Academician Wang Maohua, China Agricultural University, China.
Prof. & Academician Jiang Yiyuan Northeast Agricultural University, China.

General Co-Chairs:

Prof. Shang Shuqi, President of IAMFE, Qingdao Agricultural University, China.
Dr. Vladislav Minin, Executive Secretary, The International IAMFE Centre, Russia

Mr. Torbjorn Leuchovius, Unit of Applied Field Research (FFE), Sweden
Dr. John Stevens, PhD (Agronomy) Director, Flexiseeder Ltd, New Zealand
Prof. & Academician Luo Xiwen South China Agricultural University
Prof. Zhu Ming, Chinese Academy of Agricultural Engineering
Prof. Fang Xianfa, Chinese Academy of Agricultural Mechanization Science
Prof. Guo Peiyu, China Agricultural University
Mr. Ma Zhiqiang, China Agricultural Development Center

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Organizing Chairs:

Prof. Zhu Ming, Chinese Academy of Agricultural Engineering
Prof. Chen Shaojing, China Agricultural University
Mr. Qin Jingguang, Chinese Society of Agricultural Engineering
Prof. Sun Qun, China Agricultural University
Prof. Jiang Jinlin, Qingdao Agricultural University
Prof. Jia Shenghuo, Gansu Jiuquan OK seed Machinery Co., Ltd. China
Ms. Ma Jinying Shandong Jinyi Machinery Manufacture Co., Ltd. China
Prof. Sun Baoqi, Beijing Academy of Agricultural and Forestry

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Technical program Chairs:

Prof. & Academician Luo Xiwen South China Agricultural University
Prof. Shang Shuqi, President of IAMFE, Qingdao Agricultural University, China.
Dr. Vladislav Minin, Executive Secretary, The International IAMFE Centre, Russia
Mr. Torbjorn Leuchovius, Unit of Applied Field Research (FFE), Sweden
Dr. John Stevens, PhD (Agronomy) Director, Flexiseeder Ltd, New Zealand
Prof. Guo Peiyu, China Agricultural University
Prof. Yang Bingnan, Chinese Academy of Agricultural Mechanization Science
Prof. Chen Shaojing, China Agricultural University
Prof. Sun Qun, China Agricultural University
Dr. Yang Ranbing, Qingdao Agricultural University
Dr. Wang Jiasheng, Qingdao Agricultural University
Mr. Ma Jiguang China Agricultural Development Center

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IV Call for papers

Conference delegates are encouraged to submit papers within the following categories:

Session 1. Field experiments organizing.

Session 2. Design of field experiments.

Session 3. Management of field experiments

Session 4. Field trial machinery and equipment.

Session 5. Sampling and analysis methods on field experiments.

Session 6. Data management and processing on field experiments.

Session 7. Studies on breeding techniques and methods.

Session 8. Studies on seeding machinery, seed harvesting machinery and seed processing machinery.

Session 9. Application of advanced technologies to field experiments.

Session 10. Studies on seed characteristics.

Session 11 Other related topics.

V. Important dates

Deadline of Full Paper (4 pages) submission: May 10, 2012

Notification of Acceptance: June 10, 2012

Deadline of Registration: June 15, 2012

Deadline of Final Version of Full Paper: July 10, 2012

VI. Conference Schedule

VII. Conference Fee

Authors/IAMFE members	500 USD
Authors/No IAMFE members	550 USD
Listeners(No papers)	300 USD
Invited authors	Free
Additional Paper	300 USD
Additional Page (Up to 4 extra pages)	70 USD/one page

VIII. Registration for conference

IX. Contact Information

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The Regional IAMFE Conference of Nordic countries

The Regional IAMFE Conference of Nordic countries "From Field Experiments - to Sustainable Agroecosystem Development in Changing World: Methodology, Tools and Promotion"» has been held on September, 22-24, 2010 on the basis of North - West Research Institute of Agricultural Engineering and Electrification at St.-Petersburg - Pavlovsk.

The financial support was provided by the Government of Saint-Petersburg city (Russia) as well as the Qingdao Agricultural University (China).

One hundred thirty six participants from five countries took part in this event. The number of participants included professor Vladimir Popov, Chairman of the North - West Regional Scientific Centre of the Russian Academy of Agricultural Sciences (Russia), Professor Shang Shuqi, IAMFE President (China), Professor Markku Jarvenpaa, Director of the Technological Research of the MTT (Finland), Dr. Vladislav Minin, IAMFE Executive Secretary (Russia), representatives of the scientific and educational organizations, the agricultural enterprises and also representatives of federal and municipal authorities of Russia. Thirty five students of St.-Petersburg Universities have taken part in the Conference, also.

The conference had interdisciplinary character. The program of the conference included two plenary sessions and four special sessions as well as the roundtable: "How to ensure effective communication between authorities, scientists and farmers" and the Master Class "Technique and equipment for breeding and seed".

In total thirty five reports and performances were presented and discussed at sessions and round table.

Professor Vladimir Popov has noted at the plenary session: «It is necessary to reduce a way from field experiment to high qualitative food stuffs on a table of consumers».

Reports of conference participants and active discussions have allowed to specify the problems facing to field research as well as requirements to machines and equipment, necessary for effective work in field conditions.

Innovative methods, means and information technologies for development of field research related with environment and agrarian subjects have been considered; the modern analytical equipment and specialized techniques for field researches were presented; the discussion of new methodology of the field experimentation, presented by the Russian scientists, has passed; two international working groups for preparation of joint projects were generated. At the final session participants have come to conclusion, that all the problems faced to the Conference, have been executed and have unanimously accepted the resolution.

Participants of the Conference have accepted with gratitude the invitation of professor Shang Shuqi, IAMFE President, to take part in XIV IAMFE World Conference and Exhibition on Mechanization of Field Experiments.

It was decided that the Third IAMFE Conference of Nordic Countries will be on 2013 at St.-Petersburg.

The Exhibition of devices and agricultural equipment for field research was organized at the Conference. Following institutions have presented their production: the Agro-Physical Research Institute (St.Petersburg), the Joint Company «Kristmass» (St.Petersburg) and the All-Russia Research Institute of Agricultural Mechanization (Moscow).

The excursion through rural areas of Leningrad Region was presented for participants on the last conference day. During the excursion following objects were visited:

Menkovo Agricultural Experimental Station of the Agro-Physical Research Institute;

Experimental farm "Suida";

Memorial estate of Nikolay Rerih with protected natural territory.

Scientists of the Agro-Physical Research Institute have presented the modern landscape experiences and unique automatic meteorological station at the Menkovo Agricultural Experimental Station. Demonstration of flying of unmanned aerial vehicle with equipment for remote sensing the spectral features of the Earth surface in wide range of wavelength, constructed at the AgroPhysical Research Institute, was organized also.

The first volume of the Conference proceedings was presented to participants at registration.

Each paper has summary on Russian and English languages. The second volume of the Proceeding will be edited within January - February, 2011.

During work of the Conference the cooperation contract between St. Petersburg State Agrarian University and Qingdao Agricultural University (China) has been signed, and the contract draft between the North - West Regional Scientific Centre of the Russian Academy of Agricultural Sciences and the Finnish Institute of Agriculture and Foodstuffs MTT was discussed.



Visit to landscape field experiment



The automatic meteorological station



The unmanned aerial vehicle with equipment for remote sensing the spectral features
of the Earth surface