

Workshop Series on Modern Agricultural Development in SCO Countries

Theme III: “Modern Agriculture and Agricultural Machinery”



西北农林科技大学
NORTHWEST A&F UNIVERSITY



上海合作组织农业技术交流培训示范基地
Institute of Modern Agricultural Development, SCO Demonstration Base for Agricultural Technology Exchange and Training



青岛农业大学
QINGDAO AGRICULTURAL UNIVERSITY



The Alliance of Agriculture-associated Universities of SCO Countries was founded in May 2021, and it is an important cooperation platform for agricultural universities of the SCO countries. Currently, it has altogether 21 agricultural universities from SCO countries. The Secretariat of the Alliance has launched the "Workshop Series on Modern Agricultural Development in SCO Countries" online in 2023. The third session will be themed “Modern Agriculture and Agricultural Machinery”.

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We encourage you to take advantage of this opportunity to develop your skills and expand your knowledge. We look forward to seeing you at the workshop.

1.Date &Time

At 15:00 (BJT) on May 8th,2023

2. Profile



Prof. Vladislav Minin, Ph.D. in Agrichemistry, senior researcher of Institute for Engineering and Environmental Problems in Agricultural Production – Branch of Federal State Budgetary Scientific Institution Federal Scientific AgroEngineering Centre VIM (FSBI FSAC VIM), vice president of International Association on Mechanization of Field Experiments (IAMFE), executive director of St.-Petersburg inter-regional non-profitable public organization “Society of Assistance of Sustainable Rural Development”, expert of Helsinki Commission for protection of Baltic Sea (HELCOM). Prof. Minin is specialist in the effect of liming on the nitrogen regime of sod-podzolic soils, especially in the interaction of plants - soil and organic fertilizers in the prevailing weather conditions, and he is actively interacting with scientists from various countries like China, Finland, Estonia and Germany, number of joint cooperation focused on soil processes is carried out by international research projects, for example, the draft program of cross-border cooperation Russia - Southeastern Finland, with the title “Environmentally friendly smart organic agriculture”. Meanwhile, he further studied new polyfunctional biorationals use to achieve competitive yield of organic potatoes in the north-west russian ecosystem, biological effectiveness of a new multifunctional biopesticide in the protection of organic potatoes from diseases, sustainable rural development: implementing environmental component at local level, and substantiation of an intelligent system for managing of organic crop production. Based on the research results, Prof. Minin published 4 journal articles and 1 book in recent 5 years. Due to his contributions and research achievements, Prof. Minin was awarded the diploma of the minister of natural resources and ecology of the Russian Federation, and the order of V.I. Vernadsky for environmental activities.



Prof. Shang Shuqi, head of academic council and doctoral supervisor of Qingdao Agricultural University, executive member of Chinese Society of Agricultural Engineering, president of International Association on Mechanization of Field Experiments (IAMFE). Prof. Shang is specialist in agricultural machinery and seed production mechanization technology, who won the Second Prize of National Science and Technology Progress twice, as well as the ministerial and provincial Science and Technology progress prizes. He has lead over 30 major research programs like National 11th to 13th Five-Year Scientific and Technological Support Plan, he has invented 23 novel agricultural equipment, formulated and revised 16 industrial and local standards, acquired 2 international patents and 136 Chinese patents, published 172 papers and 55 of the papers is retrieved by SCI and EI index. Due to the outstanding contributions Prof. Shang has made to the methodology innovation of root-tuber production equipment and seed breeding machinery equipment, he is honored as the special allowance expert of The Chinese State Council, and Tianshan Scholar of Xinjiang Province, meanwhile, he was also awarded as the National Outstanding Scientific and Technological Worker, Chief Expert of National Huang Danian Style Teachers' Team, National Advanced Worker of Education System, 60 Outstanding Figures of China's Agricultural Mechanization Development, Advanced Worker of Shandong Province, Famous Teacher of Shandong Province, Top Ten Most Valuable Scientific and Technological Worker of Shandong Province.



Prof. Wang Baochao, specialist in New Energy Intelligent Agricultural Equipment and Motor Drive at Qingdao Agricultural University, Senior Member of IEEE, and Member of Industrial Design Branch of China Agricultural Machinery Society. He focuses on studies about new energy intelligent agricultural equipment and motor drive and control, his doctoral thesis has been nominated for the Outstanding Doctoral Dissertation Award of "Guy denielou" in France. He has presided over National Natural Science Foundation of China, National Key Research and Development Program, Department of Science and Technology of Shandong Province and Military products horizontal. His representative equipment developed include 50 hp electric tractor, 25 hp extended-range electric tractor, rotary electric vibrator, underwater motor and drive, servo drive, etc. As the project leader or the person in charge of the electric drive part, he has completed the "Jiaolong", "Deep Sea Warrior" deep-sea propulsion system, servo control of an aircraft component, CNOOC "Snake" system logging servo control while drilling, medical robot, lithography machine workpiece table, French Picardy GEO-ECOHOME demonstration microgrid and other project tasks, and particular equipment indicators have reached the international leading level. Based on his research results, he has published 20 SCI papers (1 highly cited, 7 top journals in the field). As the first inventor, 10 national invention patents have been authorized, and 2 have been transformed, besides, he is the winner of Yongda Elevator Prize for Teaching Award.



Prof. Tong Zhimin, specialist in agricultural information sensing and processing at Qingdao Agricultural University, senior member of China Agricultural Engineering Society, member of the Professional Committee of Agricultural Mechanization and Electrification, vice chairman of the Special Committee of Basic Technology of Shandong Agricultural Machinery Society, expert in evaluating the quality of dissertations for national professional degree level, and peer reviewer of the journal Computer Science and Information Technology. His research area focuses on agricultural information sensing, analyzing and processing, especially for collection and processing of animal vocal information and intelligent animal husbandry equipment. He has hosted 2 provincial and ministerial scientific research programs on comprehensive utilization and forage treatment technology for peanut seedlings, and pig audio information feature extraction and identification, meanwhile, he participated in two national research programs on coupling mechanism and optimal control mode of multiple environmental factors in closed pig farms, and intelligent environment control technology and equipment for enclosed pig farms. Prof. Tong has accumulated rich scientific research experiences, during 2011 to 2015, he joined the Postdoctoral Research Station of Petroleum and Natural Gas Development at Northeast Petroleum University; from 2016 to 2017, he was a visiting scholar at Purdue University in the United States. Due to his contribution, he won the first prize of the Science and Technology Progress Award of the Heilongjiang Provincial Bureau of Agricultural Reclamation twice, besides, he also won the third prize of Heilongjiang Provincial Science and Technology Award.

3. Agenda

| Data | Time | Content | Speaker | Moderator |
|-------------------------------|----------------------|--|--|--|
| May 8th | 15:00-15:40 (BJT) | The Development of Organic Production in Russia | Prof. Vladislav Minin (Institute for Engineering and Environmental Problems in Agricultural Production-Federal Scientific AgroEngineering Centre VIM) | Prof. Wang Jiasheng, Vice Dean of College of Mechanical and Electrical Engineering, Qingdao Agricultural University |
| | 15:40-16:20 (BJT) | Challenges and opportunities for seed machinery and equipment (instruments) | Prof. Shang Shuqi (Qingdao Agricultural University) | |
| | 16:20-16:40 (BJT) | Opportunities and Challenges of New Energy Agricultural Equipment | Prof. Wang Baochao (Qingdao Agricultural University) | |
| | 16:40-17:00 (BJT) | Research on Pig House Sound Collection and Processing System Based on Sensor Array | Prof. Tong Zhimin (Qingdao Agricultural University) | |
| | 17:00-17:08 (BJT) | Design and Experiment of Eccentric Vibration High-Acid Apple Harvester | Mr. Chang Xueliang (Qingdao Agricultural University) | |
| | 17:08-17:16 (BJT) | Exploration of Mechanized Equipment in Soybean-Corn Ribbon Compound Planting Pattern | Mr. Ma Shikuan (Qingdao Agricultural University) | |

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