



International Commission of Agricultural and Biosystems Engineering

Newsletter 128

March 2022

"...to serve - on a world-wide basis and through its members - the needs of humanity by fostering mutual understanding, improvement and rationalisation of sustainable biological production systems while protecting nature and environment and managing landscape through the advancement of engineering and allied sciences..."

Find information on the 2022 CIGR World Congress at: <http://cigr2022.org/>

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Contents

| | |
|--|----|
| First Call: CIGR Incoming President Nominations | 2 |
| CIGR Journal: 2021 Report | 2 |
| CIGR Immediate Past President, former NSE President, 8 others elected as Fellows of Nigerian Academy of Engineering . | 5 |
| Special Issue on "Updates and Advances to the FAO56 Crop Water Requirements Methods" | 7 |
| Prof. Michael Favorode inducted as new president of PASAE | 8 |
| ASABE Bioprocess Startup Competition for Students..... | 9 |
| Journal of the ASABE Debuts | 10 |
| HAICTA 2022: 10 th International Conference on Information and Communication Technologies in Agriculture, Food & Environment..... | 10 |
| Reminder: Registration and Abstract Submission for the CIGR World Congress is Open | 12 |
| Fundamentals of Deep Learning Workshop | 13 |
| Free Student Membership in ASABE..... | 13 |
| Invitation to the Inter-Regional Conference Sustainable Production in Water-Scarce Agroecosystems..... | 14 |
| Invitation to Attend CSBE/SCGAB's AGM and Technical Conference..... | 15 |
| Upcoming Conferences | 15 |
| Bioenergy, Renewable Energy Systems, Transmission and Storage of Electricity, Olsztyn Poland | 16 |
| 30th Mediterranean Conference on Control and Automation | 16 |
| ASABE 2022 Annual International Meeting, Houston, Texas, USA | 17 |
| 11th International Drainage Symposium, Des Moines Iowa, USA..... | 17 |
| Sustainable Production Agrosystems With Water Scarcity (SUPWAS)..... | 18 |
| Sustainable Energy for Sustainable Future. 24-26 October, 2022. San Jose, Costa Rica..... | 18 |
| AgEng-Land.Technik 2022, November 22-23, Berlin, Germany..... | 19 |
| CIGR World Congress: Kyoto, Japan 2022..... | 20 |

First Call: CIGR Incoming President Nominations

The Secretary General's Office is accepting nominations for CIGR Incoming President per Article 7 of the CIGR statutes. Nominations can be made by representatives of member organizations. Nominations must be submitted by November 25th, 2022. Term of service is for six years starting in 2023: Two years as incoming resident, two years as President and two years as Past President. The nomination package must include: 1. A letter from the nominating member organization representative that includes contact information of the nominator, the nominee and the three supporting individuals. 2. A 500-word summary of the nominee's activities

demonstrating leadership within the profession and a track record of participation in CIGR activities. 3. The CV or Resume of the nominee. 4. Three letters from individuals supporting the nomination. Only complete nomination packages will be accepted and must be submitted in a single package. Incomplete nomination packages will not be considered, and the nominator will not be informed. Please send the nomination package in electronic format to secretarygeneral@cigr.org.

Fedro S. Zazueta
Secretary General, CIGR

CIGR Journal: 2021 Report



Zhao Fengmin
Senior Editor, CIGR Journal
CSAM
China

From the May 1st, 2021, to December 31st, 2021, the Editorial Office of CIGR Journal has continually been working hard and achieved progresses under the guidance of CIGR Presidium, with strong support of Prof. Fedro Zazueta, the active volunteering work of all the Associate Editors, the enthusiastic support and efforts of the reviewers and the authors. The numbers of manuscript submissions and registered users continue to grow steadily. The table 1 shows the statistics of the CIGR Journal from the May 1st, 2021 to December 31st, 2021, using Open Journal System (OJS). Improving both the technical level and paper quality has been the primary task of the Editorial Office of CIGR Journal. Authors, reviewers, Associate Editors, Editors-in-Chief and

CIGR Presidium members are the keys to ensure upgrading the quality of CIGR Journal. Here I want to particularly express my sincere thanks to the Associate Editors. With the help of CIGR Presidium, the total number of Section Editors of CIGR Journal is 20 at present. They are from 11 countries of the Spain, Egypt, Turkey, China, the United States, Italy, Portugal, New Zealand, India, Iran and Saudi Arabia. The number of submitted papers from the May 1st, 2021 to December 31st, 2021 is 155, 20 submissions per month on average. The average time to complete the review process, editorial process to publish a manuscript is near eight months. Among the 155 submitted manuscripts, 41 are unassigned. During the 114 assigned manuscripts, it is also notable that 47 (41.2%) of newly submitted manuscripts were archived by the Editor-in-Chief before assigning to the Associate Editors because of their incompatibility with the author's guideline, not in scope of the CIGR Journal and poor English level. It is the responsibility of Editor-in-Chief to filter unqualified manuscripts, sustain and improve the

quality of our Journal. 5 (4.4%) have finished peer reviewing and are in editing, 58 are in the review process and 38 (37.7%) are with reviewers' comments. The other 20 manuscripts were sent to reviewers, but they didn't get any responds. So, some Associate Editors need to assign the manuscripts to more reviewers to speed up the review process since the selected reviewers did not accept the reviewing invitation or didn't send back comments timely. In 2021, four issues of CIGR Journal, Vol. 23, No. 1 to No. 4 with 119 manuscripts and total pages of 1227 were published on time. By December 31st, 2021, the total number of registered users in CIGR Journal through OJS reached 28996 with 2117 new users compared to the statistics accounted last time on December 31st, 2020. The number of registered readers is 26479 with 1840 new compared to the database of December 31st, 2020. In summary, our work is going well. But there are some problems we

should discuss. 1. Compare with 2020, the rejection rate of the primary review has increased, there are two main reasons. First, the research is relatively backward, this is not in line with the development direction of CIGR Journal. Second, the manuscripts are incomplete, only list the results, and the results are not analyzed and discussed, this is inconvenient for readers to understand the research results. 2. We found some Associate Editors didn't work for a long time, which shows that the manuscripts have not been handled since sent to them. So, we adjust the Associate Editors team, and remove the Associate Editors who didn't work for a longtime with their agreement. The number of Associate Editor was changed from 24 to 20. 3. Because the low work efficiency, there are fewer and fewer articles could be published. So, we will communicate with Associate Editors, hope they speed up the progress.

| Publishing situation in 2021 | | Vol. 23, No.1~No.4, 2021 | | | | |
|--|------|--------------------------|------|------|-------|--|
| Section | No.1 | No.2 | No.3 | No.4 | Total | |
| 1. LWE: Land and Water Engineering | 11 | 9 | 9 | 6 | 35 | |
| 2. FBC: Farm Buildings, Equipment, Structures and Environment | 1 | 1 | 1 | 1 | 4 | |
| 3. EEPP: Equipment Engineering for Plant Production | 3 | 7 | 4 | 5 | 19 | |
| 4. EA: Energy in Agriculture | 2 | 3 | 3 | 3 | 11 | |
| 5. MESE: Development Strategy, Ergonomics and System anagement | 1 | 1 | 1 | 1 | 4 | |
| 6. PTPE: Postharvest Technology and Process Engineering | 11 | 7 | 12 | 14 | 44 | |
| 7. IS: Information Systems | 1 | 1 | 0 | 0 | 2 | |
| Total | 30 | 29 | 30 | 30 | 119 | |

4. Author group distribution There are total 119 manuscripts published in 2021. In order to understand which countries our manuscripts mainly come from, we analyzed the distribution of the first authors. They come from 31 countries. We found it was Nigeria occupied the first place. A total of 32 manuscripts published in CIGR came from Nigeria. The second is Iran with 14 manuscripts. The third are

Egypt and India with 11. The specific information is shown in the table below. Compared with 2020, the countries with more published articles have not changed much. But we could find that the authors come from 31 different countries in 2021 more than 25 countries in 2020. This shows that CIGR Journal is slowly recognized by authors, and it is attracting more and more excellent authors.

Author Group Distribution

| No. | Country | Number of Published Manuscripts | No. | Country | Number of Published Manuscripts |
|-------|--------------|---------------------------------|-----|-------------------|---------------------------------|
| 1 | Nigeria | 32 | 17 | Pakistan | 1 |
| 2 | Iran | 14 | 18 | Benin | 1 |
| 3 | Egypt | 11 | 19 | Sultanate of Oman | 1 |
| 4 | India | 11 | 20 | Philippines | 1 |
| 5 | Indonesia | 6 | 21 | Nepal | 1 |
| 6 | Iraq | 6 | 22 | Brunei Darussalm | 1 |
| 7 | Brazil | 6 | 23 | Tunisia | 1 |
| 8 | Malaysia | 3 | 24 | Sudan | 1 |
| 9 | Germany | 2 | 25 | Bangladesh | 1 |
| 10 | USA | 2 | 26 | Philippines | 1 |
| 11 | Bangladesh | 2 | 27 | Algeria | 1 |
| 12 | South Africa | 2 | 28 | Greece | 1 |
| 13 | Ghana | 2 | 29 | Ghana | 1 |
| 14 | Pakistan | 2 | 30 | Morocco | 1 |
| 15 | Tailand | 2 | 31 | Algeria | 1 |
| 16 | Algeria | 1 | | | |
| Total | | | | | 119 |

Table 1 Statistics for the CIGR Journal (May 1st, 2021 to December 31st, 2021)

| | |
|---|---|
| Issues | Published 3 (Vol.23, No.2-4) |
| Items (Research papers) | 29 in Vol.23, No.2; 29 in Vol.23, No.3; and 30 in Vol.23, No.4 |
| Total new submissions | 155 |
| Assigned submissions | 114 |
| Archived submissions | 47(41.2%) |
| Peer reviewed | 58 |
| In review with some review comments | 38 (37.7%) |
| In review without review comments | 20 (17.5%) |
| Papers were not held by Associate Editors | 4(3.5%) |
| Accepted as assigned, including published and in editing | 5(4.4%) |
| Total manuscript in handling(including the ones submitted before) | 353 |
| Days from submission to complete review | Over 60 |
| Days from submission to publication | near eight months |

CIGR Immediate Past President, former NSE President, 8 others elected as Fellows of Nigerian Academy of Engineering

The Immediate Past President, International Commission of Agricultural and Biosystems (CIGR), Engr Professor Akindele Folarin Alonge and a former President of the Nigerian Society of Engineers (NSE), Engr Ademola Isaac Olorunfemi are among the ten newly elected Fellows of the Nigerian Academy of Engineering. The list also includes the President, Council for the Regulation of Engineering in Nigeria, (COREN), Engr Ali Alimasuya Rabi and a female Engineer, Engr Dr. Ibilola Amao.

In a statement issued by the Honourary Secretary of the Academy, Engr. Mrs. Christiana Adelowo, in Lagos on Thursday 17th February, 2022, “Ten distinguished Engineers were confirmed admitted into Fellowship of the Academy for year 2022.” According to her, they will be officially inducted in June 2022, in Lagos.

Nigerian Academy of Engineering was founded in 1997 by concerned professional Nigerian engineers, with the aim to promote engineering training and practice in Nigeria as an effort to improve the technological growth of Nigeria as a developing country in West-Africa. The Academy was described as a Think Tank for Engineering and Technology in Nigeria with focus on research and studies across the field of engineering. Its Fellows are drawn from among very senior Nigerian engineering professionals resident in Nigeria and abroad who have distinguished themselves in business, academia, and government.

Engr. Professor Folarin Alonge is the current National Chairman of the Nigerian Institution of Agricultural Engineers (NIAE). He is a COREN Registered Engineer. He is a Professor in the Department of Agricultural and Food Engineering and the current Dean, Faculty of Engineering at University of Uyo, Akwa Ibom State, Nigeria. He served as the Executive Board Member of CIGR representing American Society of Agricultural and Biological Engineers (ASABE) between 2014 and

2019; President of the African Network Group of ASABE (2014-2017) and Vice President of Netherlands Institutions Alumni Association of Nigeria (NIAAN), Aeres University/PTC+ Chapter (2017 till date). He graduated with B.Sc. and M.Sc in Agricultural Engineering from the University of Ibadan respectively and a Ph.D from University of Ilorin, Nigeria. He is a fellow and member of many renowned professional bodies such as: Nigerian Institution of Agricultural Engineers; Nigerian Society of Engineers; Solar Energy Society of Nigeria (SESN); Member, American Society of Agricultural and Biological Engineers; Member, Canadian Society of BioEngineering (CSBE); member, Pan African Society for Agricultural Engineering; Member, International Society for Horticultural Science (ISHS); member, Nigerian Institute of Management (NIM) Chartered and Member, Nigerian Institute of Food Science and Technologists (NIFST) among others. He has served as the Director of Membership Services of NSE (2015-2016) and still serving in several committees of NSE.

Engr. Ademola Isaac Olorunfemi, an Agricultural Engineer, is a past President of the Nigerian Society of Engineers and has served as a member of the Council for the Regulation of Engineering in Nigeria (COREN). he is a Chief Lecturer at Lagos State Polytechnic, Ikorodu since 2016, where he has held various positions till date. He served as the Commissioner for Agriculture between 2011 and 2013 in Ondo State; Special Adviser to Ondo State Governor on Agriculture (2013-2017). He graduated with B.Sc. Agricultural Engineering from the University of Ife, (now Obafemi Awolowo University), Ile-Ife. He also holds a Master’s Degree in Agricultural Engineering from the University of Ibadan. He is a fellow and member of many renowned professional bodies such as: Nigerian Institution of Agricultural Engineers; Nigerian Society of Engineers; Member, American Society of Agricultural and Biological Engineers; Member,

European Society of Agricultural Engineers; Member, Institution of Agricultural Engineers, UK; member, Chartered Institute of Management of Nigeria and Fellows Nigerian Institute of Management. Under his tenure as president of NSE, Nigeria successfully hosted World Engineering Conference on Sustainable Infrastructures (WECSI) in conjunction with WFEO in 2014, the first of its kind in Nigeria with over 4000 in attendance.

Engr. Ali Alimasuya Rabi, FNSE, is the president of Council for the Regulation of Engineering in Nigeria, COREN. He is the Executive Partner at AR – AR Partnership, an indigenous consulting outfit with a professional practice embracing a full range of activities in Civil Engineering, Water Resources Engineering and Project Management. Engr. Rabi studied Civil Engineering at the Federal Polytechnic, Bida and Bayero University, Kano. He has over the years acquired extensive experience in various aspects of

Civil Engineering works particularly construction supervision and procurement services. He has served the Nigeria society of Engineers in various capacities which includes 3-times Vice President and many more.

The full list has the following names:

1. ALONGE Akindele Folarin
2. AMAO Adenike Ibilola
3. EMODI Nebolisa Olisaeloka
4. OKOYE Christopher Okechukwu
5. OLABISI Olagoke
6. OLORUNFEMI Ademola Isaac
7. OSINUBI Kolawole Juwonlo
8. RABIU Ali Alimasuya
9. SOBOYEJO Winston Oluwole
10. YAKUBU Muhammad Nuru Alhaji

Congratulations to the new Fellows!



Prof. Akindele Folarin Alonge



Eng. Ademola Isaac Olorunfemi

Special Issue on "Updates and Advances to the FAO56 Crop Water Requirements Methods"



Luis Santos Pereira
CIGR Honorary President
Prof. Emeritus, University of
Lisbon, Portugal

It is my pleasure to inform you about the Agric Water Manage Special Issue on "Updates and Advances to the FAO56 Crop Water Requirements Methods". It is available electronically on ScienceDirect at:

<https://www.sciencedirect.com/journal/agricultural-water-management/special-issue/10ZP66J8B2P>.

As you may see, the collection of articles presents a set of updates of the FAO56 - Crop Evapotranspiration: Guidelines to Compute Crop Water Requirements. Updating and advancing in the domain of crop water requirements respond to the need for incorporating in the FAO56 method the results and practices of innovative science and technology, such as data handling and upgrade, better use of the available research, and use of newer

tools. Updates and advances bring more accuracy to calculation of crop water requirements, thus better supporting precision agriculture in terms of water application to the crops. Moreover, a better knowledge of evapotranspiration and related processes support improved responses to climate change and to the increased demand for water by other sectors. We are convinced that the updates and advances presented and discussed in the current Special Issue are required by the irrigated agriculture and by the various facets of environmental upgrading, climate change adaptation and water saving agriculture.

We would very much appreciate that you could announce it through CIGR, namely through a newsletter and/or the CIGR site, as well as pass this information to ASABE and your colleagues, or post the information on your own homepage, Facebook, Google+, Twitter, WeChat, Weibo or other social media profile, to tell your network about the publication of the Special Issue.

With best regards,
Luis S. Pereira.

Prof. Michael Favorode inducted as new president of PASAE

After 10 years the founding President of Pan African Society for Agricultural Engineering (PASAE), Prof. Umezuruike Linus Opara handed over at 16.10hrs on Tuesday, March 8, 2022 to a new President and Chairman of the Executive Council of AfroAgEng - the Pan African Society for Agricultural Engineering, Prof. Michael Favorode. Prof Michael Favorode has been a member of the council since 2017. Other members of the council include Prof. Jeff Smithers, the Secretary (South Africa), Prof. Emmanuel Bobobee (Ghana). Dr Joseph Mpagalile of FAO Office and Prof. Barthali. Hearty congratulations to the outgoing and new President. Prof. Opara has solicited support for the new President of PASAE.

PASAE also known as AfroAgEng was formed in 2012, as the network of professionals in academia, research, industry and policy, as well as companies and private individuals with interest in the application of engineering principles in agriculture, food and related land-based industries and is the umbrella organization connecting national and regional associations and societies of Agricultural and Biosystems Engineering in Africa. AfroAgEng is a member of CIGR, the global organization for Agricultural and Biosystems Engineering.



Prof. Linus Opara

The Mission of AfroAgEng is to promote and advance the profession of Agricultural Engineering in Africa. The Society seeks to become a key knowledge partner and visible policy advocate on the role of engineering and technology in the transformation and industrialization of agriculture in

Africa towards Agenda 2063 and beyond – the Africa We Want. AfroAgEng aims to stimulate, promote and shape the education, research, policy and practice of Agricultural and Biosystems Engineering in Africa. Prof Umezuruike Linus Opara is the current Director of the UNESCO Biotechnology Centre at University of Nigeria, Nsukka, Nigeria. He is a distinguished professor within the Department of Horticultural Science, Prof. Opara holds the South African Research Chair in Postharvest Technology at Stellenbosch University. In 2016 African Union Kwame Nkrumah Continental Scientific Award for senior researchers was given to him. He has served as the President of the International Commission of Agricultural and Biosystems Engineering (CIGR).

A graduate of agricultural engineering from the University of Nigeria, Nsukka (BEng and MEng, 1st Class Honours) and Massey University, New Zealand (PhD), he is a Chartered Engineer (UK), founding Editor-in-Chief of the International Journal of Postharvest Technology and Innovation (www.inderscience.com/ijpti), Chair of Section VI (Postharvest Technology & Process Engineering) of the International Commission of Agricultural and Biosystems Engineering (www.cigr.org), and Vice Chair of the Roots & Tuber Section of the International Society for Horticultural Science (www.ishs.org). He is a member of several national and international scientific societies.

Prior to his current appointment, he held several academic and management positions at universities in New Zealand and the Sultanate of Oman. At Massey University, he was a founding member of the Centre for Postharvest & Refrigeration Research (1995-2002), Senior Lecturer in Postharvest Engineering, Programme Director for Engineering Technology in the Institute of Technology & Engineering, College of Science, Coordinator of the Agricultural Engineering programme, Coordinator of the BApplSc (General) programme, and served as elected member of the Massey University Governing Council (1993-1997), University Academic Board

(Senate) (1992-1997), Council Committee for the appointment of new Vice Chancellor (1994-1995), the Inter-Ethnic Research Committee (1992-1996) and other policy and governance bodies.

Prof. Michael Oladimeji Faborode, a Professor of Agricultural Engineering and Registered Professional Engineer, is immediate past Secretary-General of the Association of Vice Chancellors of Nigerian Universities



Prof. Michael Faborode

(AVCNU/CVC) (2011-2017). He served a 5-year tenure as Vice Chancellor, Obafemi Awolowo University, Ile-Ife, Nigeria, 2006-2011. Before then, he was Dean of Engineering (2002-2006) and Head of Department of Agricultural Engineering (1996-2002). He was President of the West African Society for Agricultural Engineering, 2002-2004, former Vice President, Council for the Regulation of Engineering in Nigeria (COREN), and a Fellow of the Nigerian Society of Engineers. He is a Fellow of the Nigerian Academy of Engineering. Professor

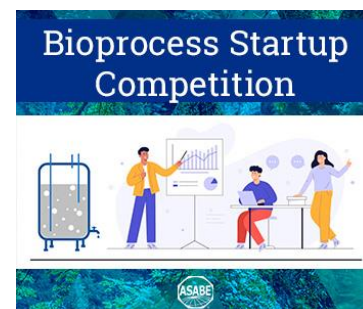
Faborode received his B.Sc and M.Sc degrees at the University of Ife, now Obafemi Awolowo University, Ile-Ife, Nigeria and his Ph.D at the University of Newcastle upon Tyne, United Kingdom. He is a member and fellow of several professional bodies. He is member, Commonwealth Association for Development, Nigerian Materials Society, Nigerian Biomathematics Society and American Society of Agricultural and Biological Engineers (ASABE). He is fellow, Nigerian Society of Engineers, Past President of the Nigerian Society of Agricultural Engineers (now Nigerian Institution of Agricultural Engineers), and honorary fellow, Nigerian Institute of Building(NIOB).

Since its formation in 2012 during the CIGR Section Conference in South Africa, the body has met also met in 2016 in Stellenbosch during ASABE the Food Security. Four conferences have been held as follows

1. PASAE in Collaboration with Kenya Society of Agricultural Engineers in Nairobi in 2017
2. PASAE Conference in collaboration with Morocco Society in Casablanca in 2019
3. PASAE Conference in collaboration with Nigerian Institution of Agricultural Engineers (NIAE) in Abuja, Nigeria in 2021
4. PASAE Conference in collaboration with Ghana Society of Agricultural Engineers in Accra in 2022

ASABE Bioprocess Startup Competition for Students

New this year! Student teams are invited to develop a new product or process that utilizes a unique biological resource associated with the State of Texas. The teams will pitch their ideas to a group of industry representatives serving as judges in a simulated “shark tank” format. The [Bioprocess Startup Competition](#) will be held at AIM. The deadline to submit [Round 1 documents](#) is 15 April.



Journal of the ASABE Debuts



The peer-reviewed journal *Transactions of the ASABE* is now [Journal of the ASABE](#). The Journal Editorial Board selected the name to provide a clear reflection of the journal's peer-reviewed content and eliminates any confusion created by the word *transactions*, which some interpret as meaning conference proceedings. This change maintains the uniqueness of our Society's primary journal in publishing peer reviewed engineering and scientific articles of importance to the broad field of agricultural and biological engineering.

HAICTA 2022: 10th Int. Conference on Information and Communication Technologies in Agriculture, Food & Environment

September 22-25, 2022 | Crowne Plaza Hotel | Athens | Greece

<https://2022.haicta.gr>

GENERAL INFORMATION

The conference is organized by the Hellenic Association on Information and Communication Technologies in Agriculture, Food & Environment (HAICTA). HAICTA is the Greek branch of the European Federation for Information Technology in Agriculture (EFITA). Until now, HAICTA has organized a series of nine successful conferences.

HAICTA 2022 aims to bring together professionals, experts and researchers working on Agriculture, Food and Environment, emphasizing on the applicability of ICT solutions and innovations to real industry cases and the respective challenges.

2022 marks the 20th Anniversary of HAICTA Conferences, since the very first of the series was held in 2002 in Athens, Greece. After organizing the following HAICTA Conferences in 8 different cities around Greece during these years, we decided to return HAICTA 2022 back to its roots, in Athens, celebrating 20 years of successful International Conferences on Information and Communication Technologies in Agriculture, Food & Environment.

HYBRID MODEL

HAICTA 2022 will be the 2nd Conference in the series to offer in-person attendance, remote

participation, and live streaming for those who won't be able to attend, giving the chance for an even wider audience. Authors will have the option to either present in-person at the Conference or remotely through teleconferencing.

TOPICS

Submissions in all areas of Agriculture, Food and Environment are accepted, including but not limited to:

ICT Applications

- Database Systems and Data Mining / Data Recording Systems
- Decision Support Systems
- e-Business, e-Commerce, e-Sales, e-Marketing and e-Services
- Information Systems and Web Applications / Digital Farming
- Internet of Things, Sensor, RFID and Mobile/Wireless Network Applications
- Precision Technologies: Crop and Livestock Production; Farm and Animal Health Monitoring

Farm Management / Rural Development

- Alternative Tourism and Promotion of Rural Areas
- e-Networking, Collective Actions and e-Governance in Rural Areas
- Farm Education, Training & Advisory, e-Learning, Interactive and Web-based Systems
- Innovation in Farms and Rural Area
- Sustainability and Resilience of Rural Areas and Agri-food Systems

Crop and Livestock Production

- Agro-ecology
- Crop and Livestock Breeding / Local Varieties, Breeds and Landraces
- Epidemics Modeling, Animal Health Monitoring
- Fisheries, Aquaculture and Blue Growth
- Genomics and Biotechnologies in Farming, Livestock Production and Forestry
- Sustainable Crop and Livestock Production

Agri-food Systems – Circular Economy

- Alternative Protein Sources
- Food Waste
- Innovations in Food Hygiene and High-Quality Food
- Innovative uses of Agricultural By-products and Waste Management
- Novel Agri-food Systems
- Quality Assurance, Authenticity and Traceability of Food Products
- Supply Chain Management & Logistics / Local Products and Short Value Chains

Environment / Climate Change

- Climate Change Modeling / Climate Vulnerability, Adaptation and Mitigation
- Environmental Design and Policy
- Regulation of GHG Emissions
- Spatial Analysis, Landscape Planning & GIS-based Analysis
- Sustainable Forestry, Wood Technology and Wood Products
- Sustainable Management of Natural Resources / Ecosystem Services
- Wildfire Risk Assessment and Prevention / Wildlife Management & Protection

Water Resources

- Irrigation Technologies and Water Resources Monitoring
- Sustainable Water Management
- Water Purification, Desalination and Re-use Technologies

TYPES OF SUBMISSION

| | |
|----------------------------------|----------------|
| Abstract | 400-600 words |
| Short Paper | max 2000 words |
| Doctoral Consortium Paper | max 2000 words |
| Industry Paper | max 2000 words |

All types of submission can be presented either orally (in-person or remotely) or as an e-poster. All accepted submissions will be published in [CEUR Workshop Proceedings](#), which is an **open-access** publication service, indexed in **SCOPUS**. Selected submissions will be invited after the Conference to be submitted as full papers in Special Issues in specific journals.

All submissions will be reviewed through a fully digital peer review process by at least two referees. Submissions will be handled by an Online Submission System that has been set-up for HAICTA 2022. You can find more information on how to submit your paper by visiting:

<https://2022.haicta.gr/author-instructions.html>

IMPORTANT DATES

| | |
|------------------------------|--|
| March 28, 2022 | Submissions due (for all types of submission) |
| May 16, 2022 | Notification of Acceptance for all submissions |
| June 20, 2022 | Camera Ready Presentation Submission |
| September 22-25, 2022 | Conference in Athens, Greece |

CONFERENCE SECRETARIAT

For any further information you can contact the
Conference Secretariat or the Program Chairs

directly by visiting:
<https://2022.haicta.gr/contact-us.html>.

Reminder: Registration and Abstract Submission for the CIGR World Congress is Open



Noboru Noguchi
Congress General Chair
Hokkaido University
Japan

You are cordially reminded to register and submit an abstract for the XX CIGR World Congress 2022, "Sustainable Agricultural Production - Water, Land, Energy and Food -". The Congress will be held during December 5 - 10, 2022 in Kyoto, Japan. The Congress is supported by the Science Council of Japan, National Committee for CIGR, JAICABE (Japan Association of International Commission of Agricultural and Biosystems Engineering).

Details about the congress, including travel and accommodations, are available at <http://cigr2022.org/index.html>.

To register and submit an abstract please go to <http://cigr2022.org/registration.html>. Please note that in order for an abstract to be considered an author must be registered by September 30, 2022.

With best regards,

A handwritten signature in black ink, appearing to read 'Noboru Noguchi', written in a cursive style.

Congress Secretariat of The XX CIGR World Congress 2022

Japan Convention Services, Inc.

E-mail: cigr2022@convention.co.jp

Fundamentals of Deep Learning Workshop

The [NVIDIA Deep Learning Institute](#) (DLI) and the [University of Florida](#) held a hands on AI deep learning workshop for CIGR members on January 18th and 20th, 2022. Over 60 CIGR members attended from all parts of the globe. NVIDIA DLI provided hands-on training for developers, data scientists, and researchers looking to solve challenging problems with deep learning and accelerated computing.

Deep learning is a powerful AI approach that uses multi-layered artificial neural networks to deliver state-of-the-art accuracy in tasks such as object detection, speech recognition, and language translation. Using deep learning, computers can learn and recognize patterns from data that are considered too complex or subtle for expert-written software. Businesses worldwide are using artificial intelligence to solve their greatest challenges. Healthcare professionals use AI to enable more accurate, faster diagnoses in patients. Retail businesses use it to offer personalized customer shopping experiences. Automakers use it to make personal vehicles, shared mobility, and delivery services safer and more efficient. Participants in the workshop learned how deep learning works through hands-on exercises in computer vision and natural language processing. Also, to train deep learning models from scratch, learning tools and tricks to



achieve highly accurate results, and how to leverage freely available, state-of-the-art pre-trained models to save time and get your deep learning application up and running quickly.

The workshop was conducted by Dr. Matt Gitzendanner. His background is in plant evolutionary genetics and

genomics where he uses genetic tools to study the conservation, evolution, and diversity of plants. The field is generally computationally intensive, and Matt has worked for 10 years training users how to use HiPerGator and other high-performance computing systems to do the amazing research that is done across the University of Florida campus. Dr. Gitzendanner is an NVIDIA DLI Certified Instructor and a University of Florida Ambassador.

UF UNIVERSITY of
FLORIDA



DEEP
LEARNING
INSTITUTE

Free Student Membership in ASABE

The ASABE Board of Trustees voted to make undergraduate student memberships free for 2022. This offer is good for all undergraduate student throughout the world. An eligible student can [sign up online](#) from now until December 31, 2022. All undergraduate students everywhere are eligible no matter the degree or interest area of study.



Invitation to the Inter-Regional Conference Sustainable Production in Water-Scarce Agroecosystems



Jose Manuel Monteiro
Gonçalves

Chair, CIGR TS 1
Polytechnic Institute of
Coimbra, Portugal

You are cordially invited to attend The Inter-Regional Conference “Sustainable production in water-scarce agroecosystems”, which will be held on 5 to 7 September 2022 in Albacete, Spain, in the University of Castilla-la-Mancha, organized in partnership between CIGR Section I, and the European projects financed by the PRIMA Foundation (SUPROMED www.supromed.eu , PRECIMED <https://precimed-prima.org> and MEDWATERICE <https://www.medwaterice.org/>). The Organizing Committee is chaired by Prof. José Maria Tarjuelo.

This conference will be held simultaneously, face-to-face, and online.

This conference integrates the 6th Inter-Regional Conference on Land and Water Challenges of Section I of CIGR, a Special Session dedicated to the Updating of the FAO-56 manual “Crop evapotranspiration - Guidelines for computing crop water requirements”, with the presence of several invited speakers, under the coordination of Prof. Luis Santos Pereira, and the Final Seminars of the referred PRIMA Projects, to present its more relevant results.

The target audience are primarily farmers, technicians, and researchers, within the process of

demonstration and transfer to the productive sector as an aid to social, economic, and environmental sustainability of water and energy use in arid and semi-arid areas to cope with climate change, under the scenario of decreasing water availability and increasing energy costs.

The conference topics are: 1) Climate Variability and Change: Impacts – Mitigation –Adaptation; 2) Water, energy, and nutrients management in irrigation; Techno-economic, social, and environmental indicators; 3) Natural resources conservation; 4) Advanced technologies and precision agriculture. Social acceptance; 5) Land use planning.

The participant’s registration is mandatory to attend face-to-face, or online, although no registration fee is required. The participant presentations would be oral, or by poster, according to the Scientific Committee decision.

All information about the Inter-Regional Conference is available on the Website <https://crea.uclm.es/crea/SUPWASConference>.

Important Dates:

- Abstract Submission open: **April 20, 2022**
- Abstract Submission Deadline: **May 27, 2022**
- Decision of Acceptance/Rejection: **June 20, 2022**
- Full Paper Submission Date: **July 4, 2022**
- Final Paper Acceptance Date: **July 29, 2022**
- Online Registration Deadline – **August 16, 2022**
- Conference Date: **September 5-7, 2022**

Invitation to Attend CSBE/SCGAB's AGM and Technical Conference

Agricultural Sustainability and Food Security through Precision Agriculture Technologies

July 24-27, 2022 – Charlottetown, Prince Edward Island

Dear Colleagues:

We are pleased to invite you to attend the Annual International Technical Conference and General Meeting of the Canadian Society for Bioengineering (CSBE). This conference will be held on July 24 – 27th, 2022 at the Delta Hotel in Charlottetown, Prince Edward Island.

More than 150 engineering, technology and science professionals will share their innovations and expertise on issues that span the sustainable food production and supply chain management. The theme of the conference is “Agricultural Sustainability and Food Security through Precision Agriculture Technologies”. The conference will

include technical tours, student poster competition, workshops, keynote speakers, and technical sessions. CSBE members, delegates and national/international participants will update their understanding of how to produce food, fiber, timber, and renewable energy sources, while achieving the highest levels of efficiency and environmental sustainability.

Please visit the conference website at: <https://csbe-scgab.ca/charlottetown2022> to submit your abstracts.

Please feel free to contact us if you have any questions. We look forward to seeing you in beautiful Charlottetown, Prince Edward Island.

Sincerely,



Aitazaz A. Farooque, PhD, P.Eng.
Conference Co-Chair
Associate Professor & Industry Research Chair
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CSBE/SCGAB (Canadian Society for Bioengineering/La Société Canadienne de Génie Agroalimentaire et de Bioingénierie) is the technical **Society of choice for all professionals and students** with an interest in the application of scientific and engineering principles for the **sustainable production of food, bioproducts, and bioenergy**.

Upcoming Conferences



Conference

CIGR IV would like to invite you to the International Conference Section IV of CIGR: Energy in Agriculture (3th edition in Olsztyn), to be held in Olsztyn, Poland, in 22-24 June, 2022. The conference aims at promoting exchange of knowledge on research and innovation for the energy in agriculture: **Bioenergy, Renewable Energy Systems, Transmission and Storage of Electricity.**

Important Dates

| | |
|------------|---|
| 15.02.2022 | Opening of online registration |
| 15.02.2022 | Opening of abstract submission |
| 30.03.2022 | Deadline for abstract submission |
| 10.04.2022 | Notification of abstracts' acceptance |
| 15.05.2022 | Deadline for full paper submission |
| 30.03.2022 | Deadline for Early bird Registration |
| 05.06.2022 | Conference Final Programme availability |

Topics

- *Fuel and bio-fuel production and utilization in agriculture,*
- *Small scale bio-power plants (CHP),*
- *Biomass conversion technologies,*
- *Bio-energy markets and sustainable developing considering the aspects of the environment protection,*
- *Solar thermal and photovoltaic systems and wind power systems used in agriculture,*
- *Energy efficiency technologies,*
- *Transmission and storage of electricity.*

For more information please visit:

<http://uwm.edu.pl/eia2020>

Looking forward to welcoming you there...!!!

Chairman of the Organizing Committee

Associate Professor **Maciej Neugebauer**

Faculty of Technical Sciences

University of Warmia and Mazury in Olsztyn

tel. 0048 895235561

eia2020@uwm.edu.pl

Possibility of on-line participation

Due to the quite dynamically changing situation related to the COVID-19 pandemic in the world and in Poland - we are planning two different forms of participation - in person or online. Both participation ways are appreciated and supported by organizers. Of course, for those researchers who cannot travel, virtual sessions with direct connection will be programmed to facilitate the debate in real-time conditions.

Venue

The University of Warmia and Mazury is located on the outskirts of the city of Olsztyn in the North-East of Poland. The flagship of the University of Warmia and Mazury is Kortowo - an academic town, recognized as the most beautiful academic campus in Poland and one of the most beautiful in Europe. The oldest part of the academic town is remembered at the end of the 19th century. The characteristic red brick buildings, under the protection of the monument conservator, have been meticulously renovated. Today, in the old walls house modern laboratories and lecture halls are located. The buildings of the old part of Kortowo are located in the park, founded at the turn of the 19th and 20th century. The campus occupies 230 ha and lies among greenery, over two lakes. Larger - Lake Kortowskie has a beautiful sandy beach and offers excellent conditions for resting and water sports. The rental of water equipment, which includes kayaks, pedal boats, and sailboats may be used not only by students and university staff, but also by guests. Accommodation will be offered in the campus and in hotels located nearby.

The conference will feature the 70th anniversary jubilee of Prof. dr hab inż. Janusz Piechocki former chairman of the Fourth Section of the CIGR and honorary vice-chairman of the CIGR



**30th MEDITERRANEAN CONFERENCE ON
CONTROL AND AUTOMATION**
<https://www.med-control.org/med2022/>
JUNE 28 - July 1, 2022
DIVANI APOLLON PALACE & THALASSO
VOULIAGMENI, GREECE, GR-16671



ASABE 2022 Annual International Meeting, Houston, Texas, USA

7/17/2022 - 7/20/2022 **Marriott Marquis Houston, Texas**



Register

The 2022 Annual International Meeting (AIM) returns to in-person in Houston, Texas, 17-20 July. [Register](#) now through 2 May for early bird discounts. Go to the [AIM website](#) for current information including hotel, technical session listings, program, and more.

Other ASABE Events can be found at <https://asabe.org/Events/Calendar>

11th International Drainage Symposium, Des Moines Iowa, USA



We invite your participation and presentations for the 11th International Drainage Symposium, August 30 - September 2, 2022 at Marriott Des Moines Downtown in Des Moines, Iowa.

Presenting at the International Drainage Symposium is an opportunity to share your work with drainage researchers, professionals, and practitioners from around the world. The Symposium will include both oral presentations and poster sessions. The deadline to submit is March 15, 2022. Visit the [Soil and Water Conservation Society](#) for all the details.

Sustainable Production Agrosystems With Water Scarcity (SUPWAS)

September 5, 6 and 7, 2022. Albacete. Spain.

The Conference aims to be a forum for meeting and reflection between farmers, technicians and researchers, within the process of demonstration and transfer of research results to the productive sector under the scenario of decreasing water availability and increasing energy costs. Thus, contributing to the social, economic, and environmental sustainability of water and energy use in agroecosystems located in arid and semi-arid areas to cope with climate change.

The Conference will be held face-to-face and online at the same time, on September 5, 6 and 7, 2022 in Albacete, in English and Spanish. Simultaneous translation will be used to achieve a higher level of participation in the dissemination and transfer of research results.

For more information go to: [CREA - Centro Regional de Estudios del Agua \(uclm.es\)](http://CREA - Centro Regional de Estudios del Agua (uclm.es))



Sustainable Energy for Sustainable Future. 24-26 October, 2022. San Jose, Costa Rica.



Join us 24-26 October, 2022 for the 3rd conference in the ASABE Global Initiative Series, Sustainable Energy for a Sustainable Future. Submit your abstract now through April 15 to share your research and views about our global energy concerns. The submission portal and program details can be found at the [conference website](#).

Program Highlights:

- Novel renewable energy production technologies
- Distributed renewable energy production systems and their economic feasibility security and food security linkages
- Regional energy solutions and their impacts on global climate change
- Regulation and policy for regional and global energy security

AgEng-Land.Technik 2022, November 22-23,
Berlin, Germany



European agriculture, both crop and animal production, currently faces major challenges such as the need to protect biodiversity, increasing bans or limitations on the use of pesticides, soil quality degradation, the impact of the COVID-19 pandemic, and the overarching challenge of climate change. To overcome these challenges, scientific and industrial research, and development in agricultural and biosystems engineering, across all areas of agriculture and nutrition, must work together to offer strategic pathways and technological solutions.

The AgEng-LAND.technik 2022 conference, part of both the EurAgEng AgEng and the VDI LAND.technik conference series brings together

these competencies and expertise to provide an arena to connect and drive forward the needed solutions to these global challenges.

The main topics are:

- * Animal Production Technologies
- * Circular Biobased Economy / Sustainable Energy/ Waste Management
- * Farm Buildings
- * Land, Soil and Water Engineering
- * Plant Production Technologies
- * Post-Harvest Technologies
- * on Agriculture / Digitalization
- * Tractors / Power Trains / Electrical Drives

More information at: [LAND.technik AgEng - Intern. Conference on Agricultural Engineering | VDI Wissensforum \(vdiconference.com\)](https://www.vdiconference.com/land-technik-ageng)

REGISTER HERE: [Order | VDI Wissensforum \(vdiconference.com\)](https://www.vdiconference.com/land-technik-ageng)



<http://cigr2022.org/>

The theme of this CIGR World Congress "Sustainable Agricultural Production - Water, Land, Energy and Food" will underpin the need for collaboration and cooperation of individuals from a wide range of professional backgrounds. This congress will provide an excellent international platform for academicians, researchers, engineers, industrial participants, and students from around the world to share their research findings with global experts in all areas related to agricultural engineering.

Kyoto has flourished as the capital of Japan for over a millennium, since 794. The city has an abundance of historically significant and unique locations, and has preserved its refined culture, historical sites, and innumerable Shinto shrines and Buddhist temples, continuing to fascinate visitors from all over the world.

We hope you will enjoy the content of the Congress, renew old friendships, make new friends, get new ideas, and above all, have a good time, as well as enjoy the city famous for its cultural traditions.