



International Commission of Agricultural and Biosystems Engineering

Newsletter 122

September 2020

"...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..."

5TH CIGR International Conference, May 2021 in Quebec, Canada
Abstract Submission deadline February 1st, 2021
Please visit the conference web page for latest news

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Web: www.CIGR.org

Journal: www.CIGRjournal.org

Contact us: secretarygeneral@CIGR.org

Message from the CIGR President



Akindele Folarin Alonge
President, CIGR
University of Uyo
Nigeria

I feel greatly honored to be called to serve at the highest level of CIGR at this time and in the Presidium till December 2022. It is a privilege to work with my colleagues in the Presidium, executive board, and other national and regional agricultural bodies across the globe. Special thanks to all Past Presidents and members of the Presidium for their contributions in advancing the activities of CIGR globally. We are in a time when we need to recruit young professionals, improve our networking and increase our membership and participation in all our CIGR activities. By God's grace, I undertake to serve with more commitment as I work with other colleagues in realization of our immediate goals and with passion to continue with the vision, mission and aims of CIGR.

The first ever CIGR event held in Nigeria took place in Ilorin, Nigeria in September 1988. As a youth corp member serving at the Department of Agricultural Engineering, University of Ilorin, Nigeria. The event was in collaboration with Nigerian Society of Agricultural Engineers (NSAE) now Nigerian Institution of Agricultural Engineers (NIAE) and National Centre for Agricultural Mechanization (NCAM). I was involved the preparation for that conference. Since then, some us have followed and participated in CIGR events across the globe. In October 2018, history was made, being 30 years after, the CIGR VI symposium was hosted in Nigeria in the capital city of Ibadan.

I was appointed by the Board of Trustees of the American Society of Agricultural and Biological Engineers (ASABE) based on personal recognition

and commitment to represent her as an Executive Board member of CIGR in June 2014. Prior this time, I had participated in CIGR activities from events in Quebec City in 2010 to France in 2011 to Africa in 2012 and Asia in 2014. It is of note that I had involve in review of several papers for CIGR journal from when Dr Bill Stout was the Editor in Chief.

This is an unusual year with COVID19 pandemic. There is no doubt that the pandemic has changed several things. The landscape scale change has affected economy, society, agriculture, and technology. Some of the changes are permanent. There is need for adjustment to these changes and our agility is much needed to catch up. For instance, post COVID19 steps through capacity building especially in emerging technologies in Agriculture are areas that we have investigate. The challenges posed should now be opportunities.

Opportunities to increase use of automation to replace human machines. Working from home to save time, space, energy, and money. More technological skilled workers will be needed hence need to build capacity as well as increase demand in portable hardware and devices like laptops, Ipad etc. Increase in agricultural activities meaning more mouth needs to be fed. This will be using tractors and machines for mechanization, modernization of agriculture, agricultural value chain and its development. Developments of ICT applications for farming, production, processing, sales, distribution, for example Uber for transportation, Airbnb for accommodation

As a global commission, we shall continue to work on our vision to apply the principles of engineering science and technology to ensure food security and the sustainable use of natural resources. We need to adjust to this time. Adaptation and management of change is essential. In view of the pandemic, we need to renew the mind. We cannot afford to think in the old ways. We must think creatively and innovatively

Results of Intermediate Election for CIGR President

On June 20, 2020, Prof. Linus Opara resigned from the CIGR Presidium. Prof. Opara's reasons for his resignation were stated in his letter to the Presidium and Board members: "In consideration of the changes in my personal life and the need to provide steady and continuing leadership of the CIGR, presently and into the future, it is with deep regret and emotions that I would like to inform you about my decision to step down as President of the CIGR as soon as a replacement is appointed through the CIGR processes." Prof. Opara will continue to serve on an advisory capacity to the Presidium.

The Presidium nominated Prof. Akindele Folarin Alonge to complete the reminder of the term in the position left vacant on the Presidium. This includes serving as President to the end of 2020, and as Past President until the end of 2022.

As required by CIGR statutes an election took place by CIGR voting representatives which resulted in Prof. Alonge becoming a member of the Presidium on August 9, 2020.

Newly Elected iAABE Fellows



iAABE recognizes individuals distinguished for their scientific and professional contributions to agricultural and biosystems engineering.

As a learned society, the Academy is composed of elected Fellows from all parts of the world. Elected Fellows are agricultural and biosystems engineers, who have made exceptional contributions in research, education, and industry for advancing agricultural and biosystems engineering. Nominations for each new fellow are made by CIGR Presidium, Academy Executive Council, and existing Fellows, and are elected by existing Fellows only. No more than 20 Fellows are every two years. The Academy is a source of scientific personnel and information to support international activities related to agricultural and biosystems engineering. The Academy acts in an advisory capacity to CIGR.

The 2020 iAABE Elected Fellows will be inducted in the May 2020 CIGR International Meeting in Quebec, Canada. The following is list of 2020 iAABE Elected Fellows.

Yong He

Yong He is a distinguished leading expert in precision agriculture. He has published over 20 books, 400 journal papers and 140 patents. He was selected as the 2016-2018 Highly Cited Researchers (Clarivate Analytics). He is the key expert of China National 863 Modern Agriculture

Xiwen Luo

Academician Xiwen Luo is a distinguished contributor to ABE. His impact on the development of agricultural machinery resulted in significant agricultural production improvements that contributed to food security in China and other countries. He served in high level positions in higher education in addition to providing leadership to research institutions and the profession. He is amongst the most senior and respected agricultural professionals in China.

Rudof Michalek

Distinguished for the organization and development of agricultural and biosystem engineering in Poland. Member of the Polish

Academy of Sciences. Doctor honoris causa of the 6 Polish Universities. Author of over 600 publications, including 220 original scientific papers, textbooks, and other scientific work. Served as Chairman of the Agricultural Technology Committee of the Polish Academy of Sciences and the Polish Society of Agricultural Engineering.

Claus Sorensen

Outstanding senior scientist with over thirty years of experience in research, education and outreach in production and operations management, and information technology as part of Agricultural Engineering/Biosystems Engineering. Numerous contributions including breakthrough research in operations analysis and optimization, research advancement for public service consultancy, improvement of educational outcomes, and leadership to organizations, peers, and students to advance engineering.

Ajit Srivasta

Prof. Srivastava's career is highlighted by effective teaching, translational research, dedicated service, and transformational leadership. His research program has resulted in several

innovations. His service to ASABE has led to the development of a blueprint for ASABE global engagement and a series of global conferences. Prof. Srivastava has provided transformational leadership as department chair at MSU.

Yibin Ying

Outstanding for contributions and leadership in advancing agricultural sensing technology and equipment for quality and safety evaluation of agricultural products, founding Biosystems Engineering discipline and curriculum, and enhancing agricultural and biosystems engineering education in China, as well as promoting international collaboration between CIGR and Chinese CSAE, CSAM, and universities.

Quin Zhang

For outstanding research and development of automation, robotic, and power technologies for machines used to produce horticultural and agricultural crops and for building international networks of agricultural machinery engineers through which knowledge is shared and transferred worldwide.

CIGR Journal Editor's Report



Zhao Fengming
CIGR Journal Editor
Vice Secretary General
CSAM, China

From the June 1st, 2020 to August 31st, 2020, 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 (AE), the enthusiastic support and efforts of the reviewers and the authors. Thanks to the whole experts and editorial team, the new submissions,

and registered users to CIGR Journal in 2020 continue to grow steadily. The table below shows the statistics of the CIGR Journal from the June 1st, 2020 to August 31st, 2020, using Open Journal System (OJS).

Authors, reviewers, Associate Editors, Editors-in-Chief and CIGR Presidium members are the keys to ensure upgrading the quality of CIGR Journal. I want to particularly call for the sustained support from the Associate Editors for the publication of CIGR Journal, also welcome recommendation of devoted Associate Editors by all people who are concerned about the development of CIGR Journal. The total number of Associate Editors of CIGR Journal is 24 at present. They are from 17 countries of the Netherlands, Spain, Egypt, Iran, Turkey, China, the United States, Italy, Portugal, Serbia, Hungary, New Zealand, Greece, India, Iran, Saudi Arabia and Bulgaria.

The number of total submitted papers from the June 1st, 2020 to August 31st, 2020 is 86, 28 submissions per month on average. The average time to complete the review process, editorial process to publish a manuscript is near nine months. Among the 83 assigned submissions, 14 (16.9%) have finished peer reviewing and are in editing. It is also notable that 16 (19.3%) 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. During the past 3 months, one normal issue of CIGR Journal, Vol. 22, No. 2 with 29 manuscripts separately were published on time. No.3 with 30 manuscripts will be published in September.

By August 31st, 2020, the total number of registered users in CIGR Journal through OJS

reached 25201 with 2276 new users compared to the statistics accounted last time on May 31th, 2020. The number of registered readers is 23044 with 2243 new compared to the database of May 31th, 2020. The CIGR Journal warmly welcomes the participation of its members as well as the scientists and engineers engaged in agricultural and biosystems engineering worldwide. We appreciate your journal work and your support. If you have not registered in CIGR Journal, please do so by visiting the Journal website of <http://www.cigrjournal.org/index.php/Ejournal/index>, and registering as an author, reader and reviewer.

As of now, there are 438 manuscripts in total, with 100 papers accepted and in editing, the rest are still in process--under review or revision.

Statistics for the CIGR Journal (June 1 st , 2020 to August 31 st , 2020)	
Issues	Published (Vol.22, No.2)
Items (Research papers)	29 in Vol.22, No.2
Total new submissions	86
Peer reviewed	67
In review with some review comments	24 (35.8%)
In review without review comments	43 (64.2%)
Papers were held by Associate Editors	54 (80.6%)
Accepted as assigned, including published and in editing	14 (16.9%)
Declined as assigned	16 (19.3%)
Total manuscript in handling(including the ones submitted before)	438
Days from submission to complete review	Over 60
Days from submission to publication	near 9 months

ASABE to Develop Performance Standard for Hermetic Grain-Storage Bags

The American Society of Agricultural and Biological Engineers (ASABE) has initiated a project to develop a standard for the testing and performance of hermetic bags used for grain storage.

X657, Measurement and Rating of Hermetic Storage Bags—Specifications of Gas Barrier Liners,

will specify the key engineering properties used in measuring and rating gas tightness—hermeticity—and strength of gas barrier liners.

Several brands of hermetic storage bags have become available commercially in Central America, Sub-Saharan Africa, and South and Southeast Asia. Manufacturers and distributors

make competing claims, often not supported by scientific data, about the performance of their products, including their hermeticity and their effectiveness in controlling biological activity. X657 will provide a common international approach for specifying the critical performance parameters, as well as for testing the performance and strength of the bags and rating liner hermeticity.

Anyone interested in participating in the development of this standard may contact Jean Walsh (walsh@asabe.org) for more information.

ASABE is recognized worldwide as a standards developing organization for food, agricultural, and biological systems, with more than 280 standards currently in publication. Conformance to ASABE standards is voluntary, except where required by state, provincial, or other governmental requirements, and the documents are

developed by consensus in accordance with procedures approved by the American National Standards Institute. For information on this or any other ASABE standard, contact Scott Cedarquist at 269-932-7031, cedarq@asabe.org. A current listing of all ASABE standards projects can be found on the ASABE web site at www.asabe.org/projects.

ASABE is an international scientific and educational organization dedicated to the advancement of engineering applicable to agricultural, food, and biological systems. Further information on the Society can be obtained by contacting ASABE at (269) 429-0300, emailing hq@asabe.org or visiting www.asabe.org.

Dolores Landeck
269-932-7039
landeck@asabe.org

Call for Nominations: CIGR Incoming President

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 December 30th, 2020. Term of service is for six years starting in 2021: Two years as incoming president, 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. 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

PASAE-NIAE Workshop Report

Modernizing Agricultural Engineering Programs to meet Africa's Agenda 2063: The Africa We Want



Prof. Michael Faborode
Chairman,
PASAE-NIAE
International Conference

The workshop took place virtually on Monday, 21st September 2020 between 11am and 16:15pm (GMT+1) with over 80 participants within African countries, Canada and USA. The mission of Pan African Society for Agricultural Engineering (PASAE)/Afro-AgEng are to promote and advance the profession of Agricultural Engineering in Africa; seek to become key knowledge partner and visible policy advocate; and to promote the role of engineering and technology in the sustainable transformation and industrialization of agriculture in Africa.

The aims of the Workshop were to:

1. Showcase/provide an overview of Agricultural Engineering curricula offered at various institutions to learn from best practices.
2. Capture an assessment of the impact of Agricultural Engineering programmes on sustainable food production in response to regional needs.
3. Promote Agricultural Engineering curriculum transformation to support engineering and the use of modern technology in the transformation and industrialisation of agriculture in Africa towards Agenda 2063 and beyond.
4. Share accreditation and quality assurance practices in Agricultural Engineering programmes.
5. Share good pedagogical practice to equip Agricultural Engineers to meet the current and future needs of industry.
6. Promote engagement between Agricultural Engineering degree programmes offered in Africa and internationally.
7. Establish a Technical Section of PASAE focussed on Agricultural Engineering Education and Training in Africa.

The Facilitator(s) included Prof. Umezuruike Linus Opara; Dr Jonathan Cooper, Dr Ed Mashatise, Mr Allistair Taylor; Prof. Jeff Smithers and Prof. Michael Faborode. The main workshop session featured country/regional presentations as well as presentation from the perspectives of the Food and Agricultural Organization of the United Nations (FAO) and an industry partner collaborating with an African university's Centre of Excellence in new technologies and innovation. The schedule followed is as shown in the Table 1 below with the contacts of the speakers.

1. The workshop broke into 6 Breakout Sessions to discuss some pertinent questions, before reconvening as a whole to discuss the various insights from the groups. The questions for Group Discussion were as follows: Are the Agricultural Engineering curricula offered at various institutions meeting the needs of industry? If not, what needs to change?
2. What transformation of Agricultural Engineering curriculum is necessary to support the transformation and industrialisation of agriculture in Africa towards Agenda 2063 and beyond?

Table 1: Program Schedule			
Time (New)		Proposed Topic	Speaker
11.00-11.10	10 Min	Welcome and Overview of PASAE and the Workshop objectives	Prof. Umezuruike Linus Opara, President PASAE and CIGR; University of Stellenbosch, South Africa
11.10-11.20	10 Min	The GCRF and the role of RAENG in strengthening engineering in Africa	Gaelle Elisha, Royal Academy of Engineering (RAENG), London, UK
11.20-11.35	15 Min	Agricultural Engineering in University of KwaZulu-Natal, South Africa	Prof. Jeff Smithers, University of KwaZulu-Natal, South Africa
11.35-11.50	15 Min	Agricultural, Biological and Environmental Engng in Nigeria	Prof. E.A. Ajav, Univ of Ibadan, Nigeria, & Prof. K. A. Taiwo, OAU. Ife, Nig.
11.50-12.05	15 Min	Agricultural and Biosystems Engineering education in Morocco	Prof. El Houssine Batali, Vice President de l'ANAFIDE, Rabat, Morocco.
12.05-12.20	15 Min	Agricultural and Biological Engineering education in Ghana.	Profs. Ahmad Addo and Emmanuel Bobobee, Kwame Nkrumah Univ of Science & Tech, Kumasi, Ghana
12.20-12.35	15 Min	Agricultural and Environmental Engineering education in Kenya	Prof. Ayub Gitau, Dean of Engineering, University of Nairobi, Kenya
	15 Min	Agricultural engineering education in Uganda	Prof. Noble Banadda, Makerere University, Uganda
12.35-12.50	15 Min	Requirements for Agricultural Engineering education in Africa – FAO perspective	Dr Joseph Mpagalile, Agricultural Engineer, FAO-ROA, Accra.
13.05-13.25	20 Min	Localized engineering applications paradigm – a pedagogy for producing the engineers for the Africa we Want	Dr. Tom Lee, Chief Scientific Officer, Quanser and Adjunct Professor, University of Waterloo, Canada.
13.25-13.30	5 Min		
13.30-14.15	45 Min	Break into groups for discussion of questions	One reporter per group
14.15-15.00	45 Min	Group report back and general discussion	
15.00-15.10	10 Min	Wrap up	Prof. Umezuruike Linus Opara / Dr Jonathan Cooper

- How can quality assurance in Agricultural Engineering programmes be improved to facilitate accreditation?
- What needs to be done to promote engagement and collaboration between Agricultural Engineering degree programmes offered in Africa?
- What matrices/milestones are needed to progressively measure/assess the impact of enhanced Agricultural Engineering Curricula on the journey towards the Africa we Want.

- What good pedagogical practice should be adopted to meet the needs of current and future students?

Conclusion

After the discussion and wrap up session, it was agreed that the Technical Section of PASAE should be established and should focus on Agricultural Engineering Education and Training in Africa, was formally established at the end of the deliberations.

Table 2: Group Discussion Question and Facilitators		
Group No.	Starting Question	Facilitation and Reporting
1	Are the Agricultural Engineering curricula offered at various institutions meeting the needs of industry? If not, what needs to change?	Prof. Linus Opara Prof. Folarin Alonge Dr Olaniyi Fawole Ms Boeboe Neethling
2	What transformation of Agricultural Engineering curriculum is necessary to support the transformation and industrialization of agriculture in Africa towards Agenda 2063 and beyond?	Prof. Emmanuel Bobobee Prof. El Houssine Batali
3	How can quality assurance in Agricultural Engineering programs be improved to facilitate accreditation?	Prof. Noble Banadda Prof. Tilahun Workneh
4	What good pedagogical practice should be adopted to meet the needs of current and future students?	Dr Jonathan Cooper Mr Ed Mashatise Dr Thomas Lee
5	What needs to be done to promote engagement and collaboration between Agricultural Engineering degree programs offered in Africa?	Mr Alastair Taylor Dr Joseph Mpagalile
6	What matrices/milestones are needed to progressively measure/assess the impact of enhanced Agricultural Engineering Curricula on the journey towards the Africa we want?	Prof. Michael Faborode Prof. Ayub Gitau Prof. K. A Taiwo

Educational Materials on renewable Energy available from PLANET



Green jobs are growing at a double rate in Agriculture in the field of renewable energies. However, the operators require management and maintenance skills to upkeep and maintain RES plants on daily basis. Thus, The EU Skills Panorama identified a crucial need in the agriculture sector for skills related to Renewable Energy Sources (RES). This underlines the need to improve skills on “using renewable energy”. Erasmus+ PLANET action aims to tackle this need, providing training and communication to stakeholder for RES in agriculture, including owners of the plants, advisors, and students.

The PLANET project partnership, including 9 partners from 4 countries, identified these needs and elaborated in the three past years the training material to fill this gap. Specifically the objectives

are to provide required Renewable energy source skills for farmers in the field of solid biomass, biogas and solar energy and to grant better access to lifelong training with innovative Flipped Classroom methodology that will combine online training, in class activities, and work-based learning periods.

The main results of the project, of common interest for CIGR members are be the development of free course material for practical training on RES in agriculture and make it available in 5 languages (EN, IT, NL, DE, FR) through a portal <http://www.erasmus-planet.eu> and the complete training on how to manage and upkeep renewable energies plants made of 4 modules available through the Moodle open learning platform: basic ICT skills; Biogas and biomethane; Solid biomass; Solar energy.

For information contact: Remigio.berruto@unito.it

WEBSITE: <http://www.erasmus-planet.eu>

Postponement of PASAE-NIAE 2020 International Conference



The PASAE-NIAE 2020 International Conference is postponed to next year. The New dates for the conference are May 10-14. Abstract submission is reopened until February 1, 2021.

Submitted manuscripts will be reviewed and authors notified of their status by the Publication/Technical Sub-Committee.

The COC pleads for the understanding of all stakeholders. We continue to look forward to the postponed conference in 2021.

For current information please visit the web site of the conference at:

<http://pasae-niae2020conference.com/>

Postponement of ASABE Global Conference: Sustainable Energy for Sustainable Future

This conference is postponed to 2022. Details of the conference will be available at <https://asabe.org/Events>.

LEAP4FNSSA Survey: Crises and challenges in the African continent

This survey is aimed to collect feedback on current crises and challenges that the African continent is currently facing and proposing possible actions to be carried out to support Africa in overcoming these dilemmas in a more sustainable way and becoming more resilient. The questionnaire was inspired by the report "Empowering youth to engage in responsible

investment in agriculture and food systems: lessons learnt from 11 African Countries" released by FAO, the outcomes of the East Africa event held by [LEAP4FNSSA](#) in Nairobi in February 2020, and the outcomes of the North Africa event in Cairo also by LEAP4FNSSA in October 2019.

[Click here to take the survey!](#)

XXXIX CIOSTA & CIGR V International Conference

Agricultural systems management in times of globalization, Krakow, Poland, June 2021



Dr Karolina Trzyniec
CIOSTA 2021 President

Dear Friends, members of the CIOSTA and 5th Technical Section of the CIGR, participants of the XXXIX CIOSTA / CIGR V Conference “Agricultural systems management in times of globalization”,

The CIOSTA/CIGR conference will be held on June 21-22 (2021), via the Internet. The

pandemic prevents us from organizing a traditional conference, for which we apologize to all those willing to come to Krakow (Poland). We believe that such a visit will be possible in the future.

Organizational details of the conference, including the conference website, will be provided in the Newsletter in December. The costs of the conference, including the publication in Agricultural Engineering (<http://ptir.org/>) and the organization of the on-line conference, will also be announced in December.

See you on our computer screens.

CIGR 5th International Conference Submission Deadline Reminder



Prof. Stephane Goodbout
Chair, CIGR 5th International Conference
IRDA, Canada

We are pleased to remind that **Abstracts for the 2021 CIGR 2020 International Conference will be accepted until February 1, 2021.** The conference, originally to take place in 2020 was postponed to May 2021. The program already in place will be maintained and abstracts already submitted (over 600 accepted) will remain in the

system. Authors do not need to re-submit an abstract.

For current information, visit the website:

<https://cigr2020.ca/>

Upcoming CIGR Conferences

International Exposition of Machinery for Agriculture and Gardening, 3-7 February, Bologna, Italy



The Digital Preview

November 11/15, 2020

The Event

February 3/7, 2021

<https://www.eima.it/en/index.php>

EIMA International is the International Exposition of Machinery for Agriculture and Gardening, a biennial event created in 1969 by FederUnacoma, the Italian Agricultural Machinery Manufacturers Federation, and organized by the federation's service division, FederUnacoma Surl, in collaboration with BolognaFiere. The Covid-19 emergency has defined a new economic and social geography with global

restrictions. The international trade show calendar has been completely revised and many events have been cancelled or postponed. EIMA International also had to revise its schedule by moving the Bologna exhibition to February 2021, and planning an important and detailed digital preview of the event for November 2020. In 2022, EIMA will return to its traditional November rendezvous.

5th CIGR International Conference, 10-14 May 2021, Quebec, Canada.



5TH CIGR International Conference in Quebec, Canada
Postponed to May 2021 due to Government Imposed Restrictions

Please visit conference web page for latest updates

The CIGR2020 conference will be held from May 10-14, 2021. The primary goal of this conference is to bring together the elite scientists from all over the world, and to provide a unique

forum for exchange on agricultural and biosystems challenges and opportunities. For the latest information and news please visit <http://www.cigr2020.ca/en/>

ASABE Global Conference: Sustainable Energy for Sustainable Future, 17-20 May 2021, San Jose, CR

The conference will enable cross-disciplinary dialogues among multi-national scientists, engineers, business owners, and government officials to discuss regional renewable energy challenges and solutions.

Key themes of the conference include:

- Novel renewable energy production technologies

distributed renewable energy production systems and their economic feasibility
energy security and food security
regional energy solutions and global climate change

- Regulation and policy for regional and global energy security

Details of the conference will be available at <https://asabe.org/Events>

Postponed until 2022
<https://asabe.org/Events> for updates

PASAE-NIAE 2020, 21-26 September, 2020, Abuja, Nigeria

PASAE - NIAE 2020 POSTPONED TILL 2021
FLASH: COVID-19 PANDEMIC
The PASAE-NIAE Conference is postponed to a more convenient date in 2021 as will be determined later following developments with COVID-19 pandemic.

Date:
21-26 September, 2020

Venue:
NAF Conference Centre and Guest House, Jaji Abuja, Nigeria.

Conference Theme and Sub-Themes

The Conference aims to harness an emerging global movement for Africa's renaissance through knowledge and practice-driven agriculture and agriculture-led industrialization. Africa's potentials in human, agricultural and natural resources is significant but largely underexploited and underutilized. The aim of the conference is to create a new momentum for concerted action through the following theme and sub-themes.

CONFERENCE WEBSITE:

Further details, including guidelines for technical papers and other contributions, Exhibitions and Registration details, and Full Conference Brochure are available at <https://pasae-niae2020conference.com/>

Contacts: conferencesecretariat@pasae-niae2020conference.com;
aonwualu@aust.edu.ng

Mike +2349056664536; Peter +2348037452497
Bayo +2348062685363; JC +2348039146246

<https://pasae-niae2020conference.com/>

ETAGRO Hellenic Association of Agricultural Economists, 9-10 October 2020, Athens, Greece



16th Conference International Section

9-10 October 2020, Athens, GR

*Sustainable Agriculture, Food Security and Climate Change:
Challenges and Opportunities in Bio-economy*

www.etagro.gr/2020

The Hellenic Association of Agricultural Economics (ETAGRO) is pleased to invite contributors across the globe to attend the International Section in Agricultural Economics which is going to be part of the 16th Conference of the Hellenic Agricultural Economics Association, held in the historic and lively city of Athens during October 2020. The main theme of the International

Section of the Conference is Sustainable Agriculture, Food Security, and Climate Change: Challenges and Opportunities in Bio-economy.

Authors are invited to submit an extended abstract of maximum 1200 words in English, (excluding references, including figures and tables), as MS Word file. The abstracts and or posters can be submitted electronically by

email: submission.etagro@gmail.com no later than 15th April 2020. Abstracts will be accepted based on quality, originality and relevance to the conference topics. Authors of accepted abstracts are also invited to submit full research papers of high quality, originality and relevance to the conference

topics. We look forward to receiving your paper and we hope to see you actively taking part in the International Section in Agricultural Economics of the 16th Conference of the Hellenic Association of Agricultural Economists – ETAGRO.



<https://ageng2020.com/>

In consideration of the current situation regarding the Covid-19 outbreak, the AgEng2020 Organizing Committee and the EurAgEng society decided to postpone AgEng2020 that will become AgEng2021! The new date is 4 to 8 July 2021. Save the date! Take care and stay safe!

The AgEng2020 Conference will be held in Évora, Portugal, between 5 and 9 of July 2020 with the focus on New Challenges for Agricultural Engineering towards a Digital World. It is our pleasure to host this conference and we want to invite all of you to participate.

This event is an opportunity to bring together engineers, scientists, technicians, academics and industry people to exchange knowledge, ideas, to present innovations and to discuss the state of the art and future perspectives for agricultural engineering as a motor for the sustainable future of agriculture.

Évora is a beautiful city, classified by UNESCO as World Heritage, located in the Alentejo region, essentially a rural landscape, with extensive planes where cereals, vineyards, olive

groves and cork trees (montado system) are predominant.

The gastronomic offer of this region is excellent and diverse, the wine a must, and people are extremely friendly and known by their hospitality.

We believe that you will make the most of your stay in Évora, from the scientific sessions to the technical, cultural and touristic programs that we are preparing for you.

We hope to see you all during the next conference of the European Society for Agricultural Engineers.

The AgEng2020 Organizing Committee.



26 al 30 Julio

EJES TEMÁTICOS

- Biotecnología
- Ambientes controlados
- Economía y administración agrícola
- Geo-informática en la agricultura
- Manejo integral del agua
- Maquinaria y mecanización agrícola
- Energías renovables
- Mitigación y adaptación del cambio climático
- Agricultura de precisión
- Poscosecha
- Uso y conservación de suelos

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– Water, Land, Energy and Food –***

December 5(Mon)–9(Fri), 2022

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