



International Commission of Agricultural and Biosystems Engineering

Newsletter 121

June 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
Please visit the conference web page for latest news

Contents

Message from the CIGR Presidium	2
Smart Farming and Digitalization.....	2
Second Call Student Intelligent Agricultural Equipment Innovation Competition	4
Call for Submissions: GIUSEPPE PELLIZZI PRIZE 2020, Club of Bologna	6
CIGR Journal Editor's Report.....	7
ASABE Announces Move to All-Virtual 2020 Annual International Meeting.....	9
Online Teaching and Active Learning Primer (Download)	10
XI Latin American and Caribbean Congress of Agricultural Engineering Students	11
Streaming Video on Distance Education and Active Learning	12
XXXIX CIOSTA & CIGR V International Conference	12
Ragusa Online Conference: Safety, Health and Welfare in Agriculture, Sept. 15	13
CIGR 5th International Conference Submission Deadline Extended	14
Upcoming CIGR Conferences	14
International Exposition of Machinery for Agriculture and Gardening, 3-7 February, Bologna, Italy.....	14
5th CIGR International Conference, 10-14 May 2021, Quebec, Canada.	15
ASABE Global Conference: Sustainable Energy for Sustainable Future, 17-20 May 2021, San Jose, CR.....	15
EurAgEng Conference, 5-9 July, Evora, Portugal.....	16
ASABE Annual International Meeting, 13-15 July, 2020, Omaha, USA.....	16
XI Latin American and Caribbean Congress of Agricultural Engineering Students, 26-30 July 2020, San Jose, Costa Rica.	17
PASAE-NIAE 2020, 21-26 September, 2020, Abuja, Nigeria	18
ETAGRO Hellenic Association of Agricultural Economists, 9-10 October 2020, Athens, Greece	19
XX CIGR World Congress, 5-9 December 2022, Kyoto, Japan	20

Message from the CIGR Presidium

Over the course of the last few months the current COVID-19 Pandemic has disrupted human activity at all levels. Sadly, the loss of life is irrecoverable. On behalf of the CIGR community the Presidium wishes to extend its sympathy to all those that were affected in some way by this situation and especially to those who lost a loved person or are facing economic hardship.

These are times in which we are facing an extraordinary existential challenge, times that require resiliency and resourcefulness. Although it is not the first time that human societies have faced natural and man-made disasters, if any lesson is to be learned from the current pandemic, it is that the global nature of the problems we face requires, more than ever, the engineering and scientific community's collaboration to accelerate positive change and innovation.

These are times in which we need to remind ourselves about the mission of our organization “...to serve the needs of humanity by fostering mutual understanding...through the advancement of engineering and allied sciences”.

It is now critical to ensure that the agri-food production and supply chain is not interrupted to ensure both a food supply and, its continued operation for those whose livelihood it depends on. Furthermore, more than ever, attention needs to be focused on disadvantaged communities.

The Presidium encourages all CIGR members to engage with their local communities at any level, with an aim to mitigate the negative impacts of this pandemic on the community's health and economy.

The CIGR Presidium.

Smart Farming and Digitalization



Claus Grøn Sørensen
Working Groups Chair, CIGR
Aarhus University, Denmark

Key challenges facing the agri-food system include improving production efficiency, coping with climate change, ensuring overall sustainability and resilience, empowering rural areas and supporting policies, and sustainable and competitive agri-food industry along the value chain, and development for bio-based products and processes (*circular economy*). This must be addressed by sustainable intensification, including embracing smart farming technologies and methods. Digital technologies and tools have the potential to

transform farming into intelligent and agile operations, while at the same time addressing these grand challenges.

For many years, Precision Agriculture (PA) have been promoted as the key tool to spatial and temporal management of agricultural inputs including, seeds, fertilizers, water, pesticides, and energy as a way to reduce amounts of inputs, increase output, and reduce adverse impacts on the environment (*e.g.* Belafoutis *et al.*, 2017). Technologies have included prescription mapping of soils and crops and then coupled with variable rate application (VRA) implements, like sprayers for pesticides and fertilisers. Other advances adhering to the PA concept have involved technologies like real-time kinetic (RTK) GPS for auto-guidance, and other optimisation tools like route planning (*e.g.* Bochtis & Sørensen, 2014; Edwards *et al.*, 2017). In this regard, PA is

employing specific technologies and tools that optimises parts of the planning and execution of farm operations, but these parts are not necessarily connected as a system.

By definition, Smart Farming extend the current PA concept enhanced by context, situation and location awareness, data-rich ICT services, data integration, data communication, standardisation, signal processing, automation technologies, high-level automation planning and control, etc. – see Fig. 1.

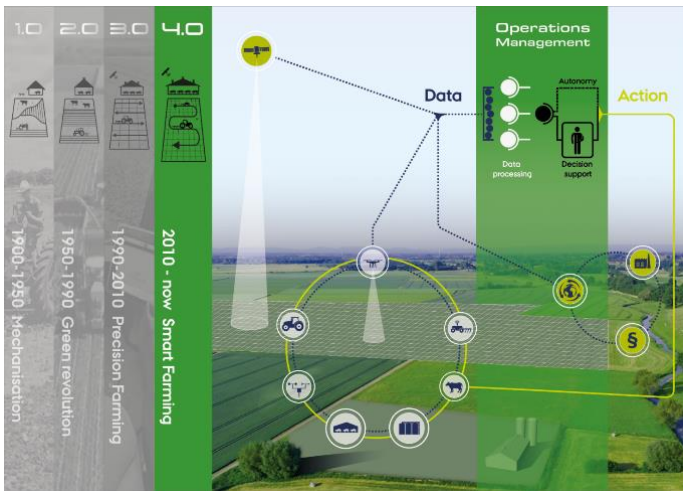


Figure 1. Smart Farming System

Key is the paradigm shift from scaling of technology items to intelligent optimisation of technologies in agriculture with mobile/cloud computing, location-based monitoring and management, Internet of Things (IoT), Big Data, etc. reaching Smart Farming/Farming 4.0 equivalent to Industry 4.0 and cyber physical systems. Technological advances are offering new possibilities in sensing and actuating, and that together with connecting information technology gives way for Operations Management to close the gap preventing the full exploitation of acquired data and knowledge and value generation for decision-making. Data from sensors and other data providers connected in real-time will be used to add value to the acquired data and information through smart analyses and planning for all farm processes (system perspective) and not only for individual operations and processes. A fully integrated IoT

system will enable improved sensing and monitoring of production, including resource use, crop development, animal behaviour and product quality, improved knowledge on farm and production conditions and sustainability issues (market, weather, environmental constraints, crop diseases, weeds, etc.). Additional, improved real-time management/optimization of machine and logistics operations in the food supply chain are envisioned. In this way, IoT systems will contribute to cope with climate change, increase resource efficiency, reduce environmental footprints, sustain a circular economy, etc. A fully integrated IoT system may also be seen as a stepping-stone towards fully automatic systems (e.g. robotic systems).

The current problem is that the potential benefits from Smart farming are not realised adequately because of a low technology adoption, despite the breakthroughs in biotechnology, sensors, automation, robotics, Artificial Intelligence, etc. The general picture is one of fragmented solutions, interoperability issues, lack of trust in data exchange, and barriers from lack of multi-disciplinarity (NAS, 2019). This adoption gap is caused by the lack of quantification of benefits, low ease of use, insufficient training of users, lack of understanding new business models, etc. (Barnes et al., 2019). There is a need to advance the drivers of adoption by building the knowledge necessary to reap the full potential of digital farming.

Examples show the level of this adoption gap. 70 to 80% of new equipment sold in Europe are be equipped with some type of Precision Farming/IoT functionality. However, only 30-35% of these functionalities are adopted by farmers (CEMA, 2016). Further, surveys indicate that productivity/production optimisation (sensing, predictive analysis, business intelligence) are the key drivers for digital transformation, and less importance is paid to business model innovation and customer relation (SmartAgriHub, 2019). However, business innovation is essential for overall sustainability. It is a problem that the lowest

interest is in "no need to change the way we do business" and no thinking-out-of-box, because these current drivers will not bring about innovative change, only marginal change and optimisation of processes. Real change is only accomplished by redesign/intent/change of value. There is an urgent need to rethink and reframe agricultural processes in order to better understand best practises and methods to make current and emergent technologies

usable, user-friendly, and profitable as the prerequisites for transforming agriculture into digital farming/smart farming and automation/robotics as the ultimate step. Moreover, this requires convergence that cuts across disciplinary boundaries and integrates knowledge, tools, and ways of thinking from life sciences, physical, mathematical, and computational sciences, engineering disciplines, etc.

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Second Call Student Intelligent Agricultural Equipment Innovation Competition

To help build an international exchange platform for students majoring in agricultural engineering, and further promote innovative entrepreneurial talents cultivation of agricultural equipment engineering in colleges and universities, the undersigned organizations collaborate to organize 6th International University Students Intelligent Agricultural Equipment Innovation Competition (Hereinafter referred to as the "competition"). These organizations include: The International Commission of Agricultural and Biosystems Engineering (CIGR), The Chinese Society of Agricultural Machinery (CSAM), The Chinese Society of Agricultural Engineering (CSAE), The Synergistic Innovation Center of Jiangsu Modern Agricultural Equipment and Technology (SICJMAET), The International University Consortium for Agricultural Engineering

(IUCAE) and The China Agricultural Machinery Distribution Association (CAMDA).

This competition was established by SICJMAET in 2015, and it is held once a year. The first and second competitions were held by Jiangsu University, the third, fourth, and fifth terms were held by Southwest University, Fujian Agriculture and Forestry University and Anhui Agricultural University. With time, this event developed into one of the most influential student events involving colleges and universities of agricultural and biosystems engineering.

Venue

The competition will be hosted by Shandong University of Technology (SDUT) in China. Founded in 1956, it is now a provincial key

university of Science and Engineering. The campus is situated in the city of Zibo, which is the cradle of ancient Qi-culture.



Shandong University of Technology

SDUT has 25 colleges, 13 research institutes, and 1 post-doctoral research center in mechanical engineering. There are 4 authorized first-rate disciplines conferring doctoral degrees, 26 authorized first-rate disciplines conferring master degrees, and 4 authorized second-rate disciplines conferring master degrees. Among them, the discipline of Agricultural Engineering was honored as one of the first-class disciplines supported by Shandong Province.

Purpose of the competition

Under the theme of “Intelligent Agricultural Equipment Prepares for a Promising Future”, the purpose of the competition is to create a platform for students to acquire skills and experience, with the intent to cultivate talent that excels in “professional knowledge, practical skills, and superior innovation and entrepreneurship capabilities” related to modern agricultural equipment innovation and entrepreneurship. This platform is the result of collaboration amongst universities, colleges, enterprises and industry.

Event Hosting and Organization

The event will be hosted by Shandong University of Technology (SUT) and organized by: The International Commission of Agricultural and Biosystems Engineering (CIGR), Chinese Society of Agricultural Machinery (CSAM), Chinese

Society of Agricultural Engineering (CSAE), Synergistic Innovation Center of Jiangsu Modern Agricultural Equipment and Technology (SICJMAET), International University Consortium for Agricultural Engineering (IUCAE), and the China Agricultural Machinery Distribution Association (CAMDA).

Institutions may submit up to two teams to participate in the competition. The participants may be undergraduate and postgraduate students.

Competition Themes

The event is divided into two broad categories:

- Robotics competition.
- Scientific and technological invention and fabrication. This second category includes original work in intelligent:
 - Tillage equipment,
 - planting equipment,
 - field management agricultural equipment,
 - harvesting agricultural equipment,
 - agricultural equipment for preliminary processing in field, and
 - other intelligent agricultural equipment.

For a detailed description of the categories, sub-categories and requirements please download the full information package in the link below.

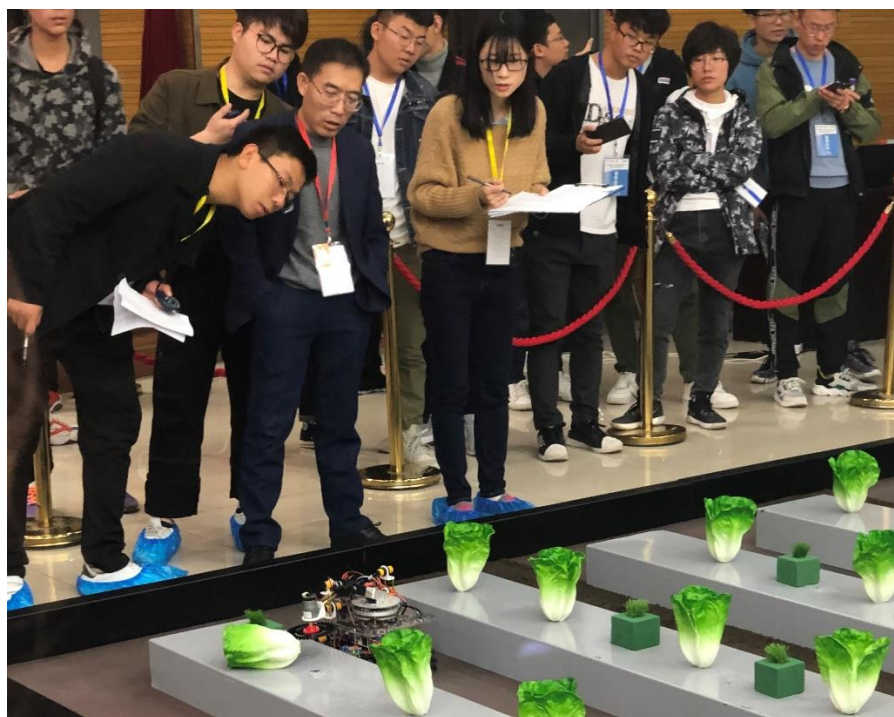
Cost for Participation and Other Expenses

There is no charge for participating in the competition. SICMAET will provide selected international student teams with expenses in China (accommodation, travel, and meals) during the competition.

International travel expenses shall be borne by the participants with the two exceptions below:

1. African students may apply for certain travel subsidies.
2. CIGR will fund international travel for up to four students originating in their country of residence.

Student Intelligent Agricultural Equipment Innovation Competition
Download the full information and application package.



Judging the performance of student designed robots during the 2019 Competition. Robots were judged in their ability to perform agricultural operations. The details of the required performance of the robot can be found in the [full information application package](#).

Call for Submissions: GIUSEPPE PELLIZZI PRIZE 2020, Club of Bologna



Paolo Balsari
President, COB
University of Torino
Italy



Marco Fiala
Secretary General, COB
University of Milan
Italy

The Club of Bologna (<http://www.clubofbologna.org>), sponsored by FederUnacoma (Italian Agricultural Machinery Manufacturers Federation), in collaboration with the Accademia dei Georgofili organizes the fourth edition of "Giuseppe Pellizzi Prize", an international competition reserved for PhD Theses dedicated to the topics of agricultural machinery and mechanization. The prize is awarded in conjunction with the EIMA International agricultural machinery exhibition, held in Bologna (Italy) every two years.

Candidates must have obtained the PhD title with specific reference to the "Agricultural machinery and mechanization" sector in one of the following topics: (i) tractors and engines; (ii)

machines and agricultural mechanization; (iii) components and materials; (iv) automation and electronics.

In order to be admitted, Candidates must: (i) be born after December 31, 1983, (ii) have obtained their PhD title not before January 1, 2018 and (iii) be presented by a Full Member of the Club of Bologna, who will act as Tutor.

The application must be sent exclusively by e-mail to the Secretary General of the Club of Bologna (Marco Fiala; marco.fiala@unimi.it) using the forms downloadable from the Club of Bologna website. Due to the problems worldwide caused by Covid-19, the "Giuseppe Pellizzi Prize 2020" deadline has been postponed from 30 June to 15 July 2020.

The members of the Club of Bologna Management Committee and a delegate of

Accademia dei Georgofili will evaluate the PhD Theses received and select the best three. The winners will receive a cash prize of 1200, 800 and 500 Euros (1st, 2nd and 3rd place, respectively) and will be invited to participate - as expert members, hosted by FEDERUNACOMA - in the annual Members' Meetings of the Club of Bologna for a period of five years (from 2021 to 2025).

During EIMA Digital Preview (11-15 November 2020; <https://www.eima.it/en/index.php>) - via streaming - the winners will be invited to present the results of their PhD Thesis (15 min each) and to discuss with the connected participants. The award ceremony of the "Giuseppe Pellizzi Prize 2020" will be instead organized during the 30th Members' Meeting of the "Club of Bologna" (6-7 February 2021), in Bologna in occasion of EIMA International 2020.

CIGR Journal Editor's Report



Zhao Fengming
CIGR Journal Editor
Vice Secretary General
CSAM, China

From the December 1st, 2019 to May 28th, 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 December 1st, 2019 to May 28th, 2020, using Open Journal System (OJS).

**The CIGR Journal Agricultural
Engineering International**
ISSN 1682-1130
Submit manuscripts for peer review at
www.CIGRjournal.org

As CIGR Journal already set up its goal to enter Thomson Reuters' citation, 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. 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 December 1st, 2019 to May 28th, 2020 is 144, 24 submissions per month on average. The average time to complete the review process, editorial process to publish a manuscript is 9 months. Among the 135 assigned submissions, 24 (17.8%) have finished peer reviewing and are in editing. It is also notable that 22 (16.3%) 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. It is the responsibility of Editor-in-Chief to filter unqualified manuscripts, sustain and improve the quality of our Journal. During the past 6 months, one normal issue of CIGR Journal, Vol. 22, No. 1 with 25 manuscripts were published on time. No.2 with 29 manuscripts will be published in June.

By May 28th, 2020, the total number of registered users in CIGR Journal through OJS reached 22925 with 9966 new users compared to the statistics accounted last time on November 30th, 2019. The number of registered readers is 20801 with 10115 new compared to the database of November 30th, 2019. 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> , and registering as an author, reader and reviewer.

As of now, there are 399 manuscripts in total, with 110 papers accepted and in editing, the rest are still in process--under review or revision.

Statistics for the CIGR Journal (December 1st, 2019 to May 28th, 2020)

Issues	Published Vol.22, No.1
Items (Research papers)	25 in Vol.22:No.1
Total new submissions	144
Peer reviewed	113
In review with some review comments	47 (41.6%)
In review without review comments	66 (58.4%)
Papers were held by Associate Editors	88 (77.9%)
Accepted as assigned, including published and in editing	24 (17.8%)
Declined as assigned	22 (16.3%)
Total manuscript in handling (including previous submissions)	399
Days from submission to complete review	Over 60
Days from submission to publication	Average 9 months



Frequently Asked Questions:

Where can I find the instructions for authors?

Instructions can be found at:

<https://cigrjournal.org/index.php/Ejournal/about/submissions#authorGuidelines>

I am not able to upload my manuscript, what can I do?

Make sure you registered as an author.

Can I have my manuscript published quickly?

The time required to publish a manuscript varies substantially depending mostly on the comments of the reviewers and the reply from the authors. CIGR will not make allowances to accelerate review and publication of a manuscript, all submissions are treated the same way.

ASABE Announces Move to All-Virtual 2020 Annual International Meeting



Sue E. Nokes
President ASABE
Prof. and Assoc. Dean
University of Kentucky
USA



Darrin Drollinger
Executive Director
ASABE, USA

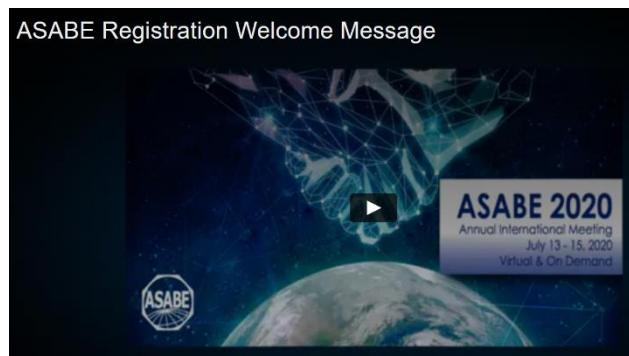
It is not what any of us anticipated, but in many ways the 2020 ASABE Annual International Meeting will mirror much of our profession itself: #ASABE2020 promises to be innovative, flexible, and indispensable.

Plan to join colleagues around the world July 13-15 for the reimagined AIM and celebrate our collective resilience and dedication to what we do. It's ASABE's first-ever virtual annual international meeting. Be a part of it!

Our all [new website](https://asabemeetings.org) -asabemeetings.org- is now available, where you will find the registration portal, as well as complete program and scheduling details as they are finalized. Registration is now open, and you'll see all the familiar programming

content you've come to expect from the AIM: oral and poster technical sessions, continuing professional development courses, socials, committee meetings, career fair, award celebrations, and networking opportunities. CEUs will be available to registered attendees for selected sessions.

New this year! After the live event, as a meeting registrant you'll enjoy exclusive access to all technical sessions to view at your convenience until the end of July. Going virtual means you won't have to cut short one tech session to catch another.



Welcome video with ASABE President Sue Nokes.

[Visit ASABE 2020 International Meeting web site](https://asabemeetings.org)

Online Teaching and Active Learning Primer (Download)



Patrizia Busato
Chair, CIGR Section VII
University of Torino
Italy

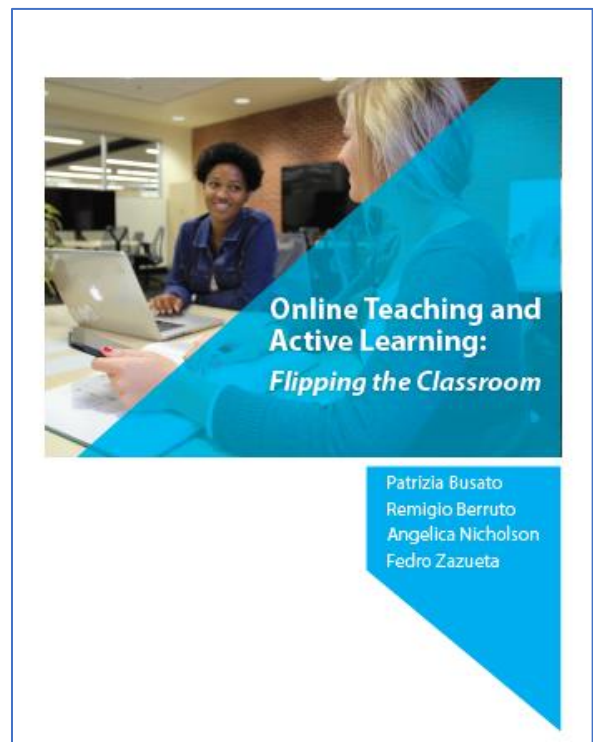
Institutions involved with education and training have been forced to use online delivery methods for business continuity during the current pandemic. Particularly for academics and business that use face-to-face instruction, the need to move course delivery into an online environment on the short term created hardship.

The attached publication provides a background and guidelines for the development of online course materials. It is important to note that delivery online is a completely different environment to face-to-face delivery and even for the experienced academic or lecturer, the development of new skills is required.

Most important is the methodology of instructional design. This methodology is based on clarity in what the students should learn in terms of behavioural learning objectives, clear formative and summative assessments, and high-quality pedagogical materials. It is also important to understand the behaviour of online students, both as individuals and in a social context. Also, attention

should be paid to the development of quality pedagogical materials that engage the student in an active manner.

This material was developed for a workshop in online and active learning that was conducted over several years during ASABE's International Meeting. It serves as a basic introduction to online education practice.



<http://cigr.org/Resources/OnLineTeachingFlippedClassroom.pdf>

XI Latin American and Caribbean Congress of Agricultural Engineering Students



**María Cristina Porras
Zúñiga**
President, ALEIA

The XI Latin American and Caribbean Congress of Agricultural Engineering Students (XI CLEIA, acronym in Spanish) ensures a youth space whose main objective is scientific dissemination in areas such as: biotechnology, controlled environments, agricultural economics and administration, geoinformatics in agriculture, management comprehensive of water, agricultural machinery and mechanization, renewable energy, mitigation and adaptation to climate change, precision agriculture, post-harvest and soil use and conservation.

The organizers of the XI CLEIA; the Costa Rican Association of Agricultural Engineering and Biosystem Students (ACREIAB, acronym in Spanish) and the Latin American and the Caribbean Association of Agricultural Engineering Students (ALEIA, acronym in Spanish), sponsored by the University of Costa Rica, the Technological

Institute of Costa Rica, the Commission of Agricultural Engineers of the Federated College of Engineers and Architects of Costa Rica we invite you to be part of the most important event for students of Agricultural Engineering at the Latin American level.

The XI CLEIA will be held in the city of San José, Costa Rica, at the Federated College of Engineers and Architects from July 26 to 30, 2021.

You can participate as speaker, panelist, stand owner or as a general participant of the congress. Currently, the call for receipt of research is available, ending on November 1, 2020. In addition, the XI CLEIA will have a special edition of the best scientific articles in the magazine Tecnología en Marcha of the Editorial Technological of Costa Rica; likewise, the proceedings of the congress will be published in the International Commission of Agricultural and Biosystems Engineering (CIGR) in CIGRProceedings.org

The guidelines and template for the presentation of research documents can be obtained by completing the form at [this link](#):

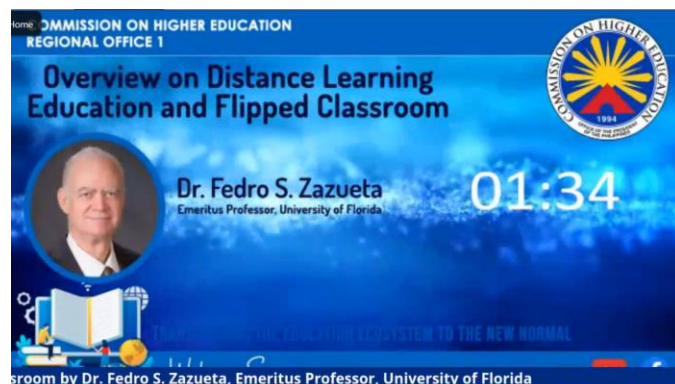
For more information please write to info.xicleia@gmail.com or visit the congress page: www.facebook.com/XICLEIA2021/

We are waiting for you in Costa Rica!

Streaming Video on Distance Education and Active Learning

Prof. Fedro Zazueta, CIGR Secretary General, was invited by the Office of The President, Commission on Higher Education, The Philippines, to make a presentation on distance education and active learning. This is part of the efforts by the Commission to address Mental Health, Challenges of the New Normal, Flexible Learning Approaches and Common Online Learning Platforms. Dubbed as Transitioning the Education Ecosystem to the New Normal (TEENN). The webinar series aims to address the common emerging issues in education due to the pandemic and to introduce flexible learning approaches that educators can integrate in their teaching.

The presentation is available online (to skip the introduction go to minute 10 of the video)



<https://www.facebook.com/chedro1/videos/263988778062418/?sfnsn=mo&d=n&vh=e>

XXXIX CIOSTA & CIGR V International Conference

Agricultural Systems Management in Times of Globalization



Dr Karolina Trzyniec
CIOSTA 2021, President
University of Agriculture,
Krakow

The XXXIX CIOSTA / CIGR V conference is planned in Krakow (Poland) in June 2021. The overall conference program will cover the following topics: production and processing of biological non-food raw materials, production and using of unconventional energy sources, automation and robotization, agriculture 4.0, information systems used in management, automation of human work, problems of modern ergonomics, food security in

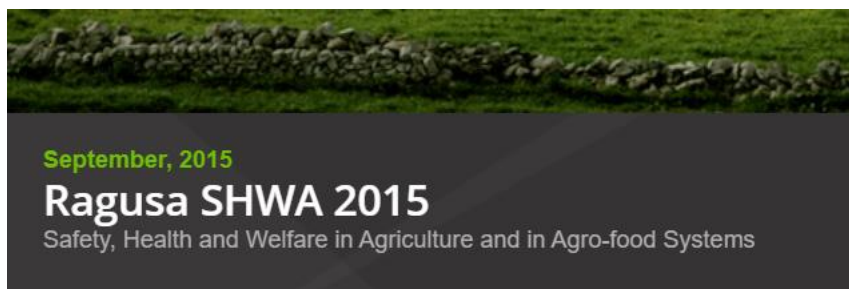
period of pandemic, supply chain management, innovative research techniques and other topics.

Arrangements for the conference will take place in one of two formats: a traditional conference, and a virtual, online conference.

The Organizing Committee is increasingly leaning towards to an online virtual conference. The arguments for this way of conducting the conference are as follows: (1) the risk of duration of pandemics and travel restrictions, (2) the probability of reducing funding for participation in international conferences, (3) the accumulation of scientific conferences (among others, the CIGR Congress in Quebec, Canada) at the same time, after moving them from this year.

We will announce the final format of the conference in the September issue of this newsletter.

Ragusa Online Conference: Safety, Health and Welfare in Agriculture, Sept. 15



RAGUSA SHWA 2020 ON-LINE
(Towards RAGUSA SHWA 2021)
You are invited to attend on
September 15, 2020, 15:00-17:00 CEST.

THERE IS NO COST TO PARTICIPATE. This online event, held in lieu of the 2020 conference, will consist of Lectio Magistralis, main communications, and discussion. It covers a wide array of subjects related to safety, health and welfare in agriculture and includes the participation of many experts in the area.

At the same time, please accept an invitation to participate in **the 5th International Conference on Safety, Health and Welfare in Agriculture and Agro - food Systems - RAGUSA SHWA 2021**, postponed to 15th–18th September 2021, to be held in Sicily, Italy.

To participate online as an attendee, receive email reminders, and the connecting code, please mail info@ragusashwa.it .



Watch

informative video about Ragusa SHWA

For the latest news visit the conference website at <http://www.ragusashwa.it/2020/>, [Facebook](#), and [Twitter](#).

For other information, please contact *Giampaolo Schillaci* at giampaolo.schillaci@ragusashwa.it

CIGR 5th International Conference Submission Deadline Extended



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

We are pleased to announce that CIGR 2020 event is postponed to May 10 to 14 2021. It will be possible to submit new abstracts until February 1, 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 more information, visit the website:
<https://cigr2020.ca/>

5TH CIGR International Conference, May 2021 in Quebec, Canada
Please visit the conference web page for latest news

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 agents to discuss regional renewable energy innovations and solutions.

Key themes of the conference:

- 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

Venue: Intercontinental Hotel, San Jose, Costa Rica

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

EurAgEng Conference, 5-9 July, Evora, Portugal



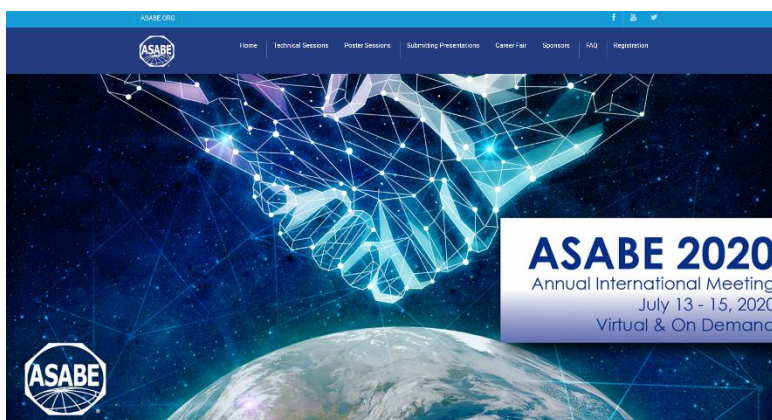
<https://ageng2020.com/>

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.

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.

ASABE Annual International Meeting, 13-15 July, 2020, Omaha, USA



<http://asabemeetings.org/>

ASABE 2020 presents a forum to expand awareness of current industry trends, promote and acknowledge innovations in design and technology,

and provide opportunities for professional development – all with a focus on the economic, political and societal impacts facing the industry

XI Latin American and Caribbean Congress of Agricultural Engineering Students, 26-30 July 2020, San Jose, Costa Rica



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

XI CLEIA

Costa Rica 2021

POSTULE SU PONENCIA

Fecha límite recepción de documento extenso:

1 DE NOVIEMBRE DEL 2020

Información:
info.xicleia@gmail.com

ORGANIZA



ALEIA
Asociación Latinoamericana de Ingenieros Agrónomos



ACREIAB
Asociación Costarricense de Ingenieros Agrónomos

AUSPICIA



TEC | Tecnológico de Costa Rica



UNIVERSIDAD DE COSTA RICA



CIEMI
Colegio de Ingenieros Electricistas, Mecánicos e Industriales

www.facebook.com/XICLEIA2021/

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



The poster for the PASAE-NIAE 2020 International Conference features a green and white color scheme. At the top left is the AfroAgEng logo (Pan African Society for Agricultural Engineering). At the top center is the Nigerian Society of Engineers logo, and at the top right is the Nigerian Institute of Agricultural Engineers logo. The main title 'PASAE-NIAE 2020 INTERNATIONAL CONFERENCE' is prominently displayed in large, bold, white letters on a green background. To the right, the theme 'Africa's Agenda 2063: The Africa We Want' is highlighted. Below this, the specific theme 'Engineering Africa's Agro-Industrial Transformation for Economic Prosperity and Sustainable Development' is listed. The date '21-26 September, 2020' and the venue 'NAF Conference Centre and Guest House, Jabi Abuja, Nigeria.' are also provided.

**Pan African Society for Agricultural Engineering
&
The Nigerian Institute of Agricultural Engineers**
(A Division of the Nigerian Society of Engineers)

**PASAE-NIAE
2020
INTERNATIONAL
CONFERENCE**

**"Africa's Agenda 2063:
The Africa We Want"**

Theme:
**Engineering Africa's Agro-Industrial
Transformation for Economic Prosperity
and Sustainable Development**

Date:
21-26 September, 2020

Venue:
NAF Conference Centre and
Guest House, Jabi 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/>

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



**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.

XX CIGR World Congress, 5-9 December 2022, Kyoto, Japan



The XX CIGR World Congress 2022

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***Sustainable Agricultural Production
– Water, Land, Energy and Food –***

December 5(Mon)–9(Fri), 2022

Venue: **Kyoto International Conference Center, Japan**

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. For information please see <http://CIGR2022.org>.