

International Commission of Agricultural and Biosystems Engineering



Newsletter No. 102 November, 2014

> Since 1930 84 Years of CIGR

1. CIGR News ..... 2

Summary reports of the XVIII<sup>th</sup> CIGR World Congress 2014, Beijing, China

Commission Internationale du Génie Rural (CIGR) CIGR Website: http://www.cigr.org/

# **1. CIGR NEWS**

# XVIII CIGR World Congress 2014 in Beijing, China on 16-19 September 2014

The CIGR conducted the XVIII CIGR World Congress on 16-19 September, 2014 in Beijing China. A total of 1,392 participants attended the said event. The participants were composed of representatives from 51 countries which included 184 professionals, 48 students and 54 guests; and from China which comprised 431 professionals, 370 students, 245 other registrants and 45 staff.

The participants from the other countries came from United Kingdom, Germany, France, Italy, Switzerland, Austria, Belgium, Netherlands, Sweden, Denmark, Ireland, Spain, Portugal, Russia, Ukraine, Poland, Czech, Slovakia, Greece, Japan, Korea, Taiwan, Indonesia, Cambodia, Thailand, China, India, Pakistan, Malaysia, Mongolia, Iran, Turkey, Kazakhstan, Egypt, Kenya, Tanzania, Ghana, Nigeria, South Africa, Botswana, Gambia, Benin, Mozambique, United States, Mexico, Canada, Brazil, Chile, Peru, Uruguay, Australia and New Zealand.

Each participant has provided with a Book of Abstracts containing the copy of the 645 oral presentations and 673 poster presentations which were presented during the technical program.

Of the 7 Technical Sections of CIGR, nine (9) sections of oral and poster presentations were conducted as enumerated in the table below.

Session Name	Oral	Poster
Session I: Land and Water Engineering	70	44
Session I: Special Session, China-US Water-Saving Technology Flagship Project Workshop	18	
Session II: Farm Building, Equipment, Structures and Environment	75	41
Session III: Equipment Engineering for Plants	168	226
Session IV: Energy in Agriculture	56	44
Session V: Development Strategy, Ergonomics and System Management	29	32
Session VI: Postharvest Technology and Process Engineering	117	120
Session VII: Information Systems	83	146
Session VIII: Agricultural Machinery Standardization	15	14
Session IX: Asia Forum	14	6
Number of presentations	645	673
Total presentations		1318

#### Highlights of the CIGR Administrative Meetings and Ceremonies

Part of the major events of the XVIII CIGR World Congress were the CIGR Administrative Meetings and Awards Ceremony. The said activities were held at the China National Convention Centre (CNCC) and the Chinese Academy of Agricultural Mechanization Sciences (CAAMS), Beijing, China. The details of the events were as follows: <u>15 September</u>: The Presidium (PM) and Executive Board (EB)

<u>16 September</u>: The Technical Board (TB), Section Boards (SB) and Journal Meetings

<u>17 September</u>: The General Assembly (GA) and Award Ceremony

**1. Elections 2014:** Prof. Mikio Umeda, CIGR Secretary General, presented the results of counting of ballots during the election. Prof. Shujun Li was unanimously elected as the Incoming President. The members of CIGR Executive

Board for 2015-2018 were also elected as shown in the table below.

- **2. Approvals:** The following issues and concerns were presented. All the issues were unanimously approved by the Executive Board, Technical Board and/or the General Assembly:
  - 1) The members of the Technical Board were elected and three auditors were nominated.
  - 2) The CIGR Statutes: Article 7-7 was revised from "members of the Presidium" to "President, Past President and Incoming President" and also from "CIGR e-Journal" to "CIGR Journal."

Changing the Statutes sections' name was also discussed, but it was agreed to retain the names. However, the sections' short names will be used as simplified names. This revision will be effective from 1 January, 2015.

- 3) All working groups will be continued for the succeeding years 2015-2018.
- Budget for Expenditures for 2013 was reported by Prof. Taichi Maki, representative of the three auditors.
- 5) The CIGR planned budgets for 2015 was presented by Prof. M. Umeda and it was subsequently approved.
- 6) It was identified that the future status of CIGR financial condition will not be easily maintained. Thus, a Fund Strategy Committee was created and Mr. Yoshisuke Kishida was nominated as chair of the committee.
- 7) The GA agreed that the XIX CIGR World Congress will be held in 2020 in Qubec, Canada.
- 8) The GA approved the proposal of President Da-Wen to create a Foundation of CIGR Academy.
- 9) Past President Fedro Zazueta reported that the CIGR WEB site was responded to smart phone.

#### Introduction of the Next Incoming CIGR President

Prof. Shujun Li from China was elected as the Next Incoming CIGR President. He will start his tenure on January 1, 2015. The Presidium Members expect him to exercise a strong leadership during his term from 2015 to 2020 because of his long experiences and contributions at CIGR as shown in his Curriculum Vitae.

#### Curriculum Vitae of Prof. Shujun Li

- He was born in 1962.
- He finished his Bachelor of Science in Agricultural Machinery at the Jiamusi University in 1982.
- He completed his Master's Degree in Agricultural Engineering at the Jilin University in 1986.



Prof. Shujun Li

- He finished his Doctorate Degree in Food Science at the China Agricultural University in 2002.
- He is currently the President of the Chinese Academy of Agricultural Mechanization Sciences (CAAMS), a large scientific and technological enterprises with over 9,000 employees comprising of mostly researchers and
- engineers, and support staff.
  He has been serving the CIGR as the Vice Chair of CIGR Section VI and as member of the CIGR Executive Board since 2004.
- He was the President of the Asian Association for Agricultural Engineering (AAAE) in 2010-2013. He was also the Editor-in-Chief of International Agricultural Engineering Journal (LAEJ). He was also designated as the Country Delegate of the International Association on Food and Engineering (IAEF). Likewise, he was a member of Club of Bologna and AOC which was associated with the ASABE;
- He was also served as the Vice President of Chinese Society for Agricultural Machinery (CSAM) and Chinese Society of Agricultural Engineering (CSAE) as well as Director of Chinese Committee of Agricultural Mechanization Standardization.

Prof. Mikio Umeda Secretary General

# CIGR Elections 2014 Composition of the CIGR Executive Board for 2015-2018

Composition of the CIGN Executive Dourd for 2010				
PRESIDIUM				
President	Prof. Tadeusz Juliszewski (2013-2018)			
Past President	Prof. Da-Wen Sun (2011-2016)			
Incoming President	Prof. Shujun Li (2015-2020)			
Secretary General	Prof. Mikio Umeda (2014-2017)			
EXECUTIVE BOARD				
1. Prof. Folarin Alonge	ASABE			
2. Prof. Vilas M. Slokhe	AAAE			
3. Prof. Peter Schuluze Lammers	EurAgEng			
4. Prof. Fedro Zazueta	ALIA			
5. Prof. Stephane Godbout	Canada			
6. Prof. Adolf Rybka	Czech			
7. Prof. Daniella Jorge de Moura	Brasil			
8. Dr. Jeff Smithers	South Africa			
9. Prof. Gajendra Singh	India			
10. Prof. Seishi Ninomiya	Technical Board			
11. Prof. Thomas Banhazi	Coordinator of Working Groups			
Co-opted: Continuance of CIGR				
1. Prof. Tosinori Kimura	2016 International Conference			
2. Dr. Claus Aage Grøn Sørensen	2018 World Congress			
3. Prof. Can Ertekin	CIGR Journal			
4. Prof. Lanfang Zhang				
AUDITING				
Prof. Stefan Boettinger, Prof. Naiqiar	n Zhang, Prof. Eiji Inoue			
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# **Composition of the CIGR Technical Board for 2015-2018**

SECTION I: Land an	d Water Engineering		
Chair	Gerrit J. Carsjens (NL)		
Vice Chair	Claudio Garcia (UR)		
Secretary	Jose Manuel Monteiro Gonça	alves (PT)	
Members	Yoshiyuki Shinogi (JP) Enrique Palacios 2009 (MX) Yakov P. Lobachevsky (RU) Taisheng Du (CN) Nicola Lamaddalena (IT) Harouna Karambiri (BF) Forster Ndibusi (US)	Atmaram Mishra (IN) Robiyanto Mendro Susanto (ID) Silvio Lima (BR) Antonio Brasa Ramos (ES)	Hon. Chairs: Hubert N. van Lier (NL) Luis Santos Pereira (PT) Andre Musy (CH) Yohei Sato (JP) Mauro Greppi (IT) Jose M. Tarjuelo (ES) Guanhua Huang (CN)
SECTION II: Farm B	uildings, Equipment, Structure	es and Environment	
Chair	Eberhard Hartung (DE)		
Vice Chair	Álvaro Ramírez Gómez		
Secretary	( ES)		
	Tami Brown-Brandl (US)		
Members	Mohamed Hatem (EG)	Baoming Li (CN)	Hon. Chairs:
	Bart Sonck. (BE)	GertJan Monteny (NL)	Soren Pedersen (DK)
	Atsuo Ikeguchi (JP)	Daniella Jorge Moura (BR)	Daniel Berckmans (BE)
	Chaoyuan Wang (CN)	Sven Nimmermark (SE)	
	Ilda Tinoco (BR)	Vasco Cruz (PT)	Hon. Members:
	Sven Nimmermark (SE)	Victoria Blanes-Vidal (ES)	Jorge Meneses (PT) Irenilza de Alencar Nääs (BR)

ment Engineering for Plants		
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Stanley Best (CL) Aleksandr Briukhanov (RU) Karim Houmy (MA) Andrea Peruzzi (IT)	Daniel Marçal de Queiroz (BR) Karl Wild (DE) Hiroshi Shimizu (JP)	Hon. Chair: Oleg Marchenko (RU) John K. Schueller Hon. Member: Markus Demmel (DE)
y in Agriculture		Markus Deniner (DL)
Károly Petróczki (HU) Guangnan Chen (AU)		
Ralf Pecenka (DE) Kazunori Iwabuchi (JP) Ming Zhu (CN) Dariush Zare (IR)	Slawomir Kurpaska (PL) Valeryi Beley (RU) Ladislav Nozdrovicky (SK) Martin Polák (CZ)	Hon. Chairs: Kamaruddin Abdullah (ID) Mikio Umeda (JP) Janusz Piechocki (PL)
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Amauri Rosenthal (BR) Jerzy Weres (PL)	0	
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mation Systems		
Seishi Ninomiya (JP)		
Jiannong Xin (US)		
Jose Francisco Aguilar (CR Miklos Herdon (HU) Miguel Castro Neto (PT) Yibin Ying (CN) Patrizia Busato (IT)	) Pilar Barreiro Elorza (ES) Iver Thysen (DK) Arno Ruckelshausen (DE) Leisa Armstrong (AU)	Hon. Chairs: Axel Munack (DE) Yasushi Hashimoto (JP) Nick Sigrimis (GR) Fedro Zazueta (US) Antonio M. Saraiva (BR)
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CIGR Awarding 2014 (Conducted on 17 September, 2014 at 18<sup>th</sup> CIGR World Congress in Beijing, China)

Award	Person	Reason
CIGR Merit	Prof. Pat D. Taylor	for his successful work in CIGR Section I and promotion of
Awards		cooperation with other international organizations
	Prof. Daniel Berckmans	for his successful work in CIGR Section II and promotion of
		cooperation with other international organizations
	Prof. Janusz Piechocki	for his successful work in CIGR Section IV and promotion
	1 Ior. Janusz 1 icenocki	of cooperation with other international organizations
	Dr. Dominic Dominito	for his successful work in CIGR Section V and promotion of
	Dr. Remigio Berruto	cooperation with other international organizations
	Dr. Patrizia Busato	for her successful work in CIGR Section VII and promotion
		of cooperation with other international organizations
	Prof. Umezuruike Linus Opara	for his successful work in CIGR Section VI and services as
	I I I I I I I I I I I I I I I I I I I	Representative of CIGR Technical Board for CIGR
		Executive Board
	CIGR Journal Office, CAAMS,	for their successful day-to-day running of CIGR Journal
	Beijing, China	for their successful day-to-day fullning of Clork Journal
CICD	Prof. Fedro S. Zazueta	for his distinguished complete during the next of 2000 2014 of
CIGR	Prof. Fedro S. Zazueta	for his distinguished services during the period 2009-2014 as
Honorary		President of the International Commission of Agricultural
President		and Biosystems Engineering and in token of the warm
		regard in which he is held by his colleagues
	Prof. Toshinori Kimura	for his distinguished services during the period 2010-2013 as
		Secretary General of the International Commission of
		Agricultural and Biosystems Engineering and in token of the
		warm regard in which he is held by his colleagues
CIGR	Prof. Guanhua Huang	In recognition of his distinguished services during the period
Honorary	8	2011-2014 as Chair of Section I
Vice-President	Dr.Thomas Banhazi	in recognition of his distinguished services during the period
vice i resident	Di Thomas Dumazi	2011-2014 as Chair of Section II
	Prof. John K. Shueller	in recognition of his distinguished services during the period
	1 Ior. John K. Shuener	2011-2014 as Chair of Section III
	Prof. Janusz Piechocki	in recognition of his distinguished services during the period
	FIOL Janusz Flechocki	
		2011-2014 as Chair of Section IV
	Prof. Claus Aage Grøn	in recognition of his distinguished services during the period
	Sørensen	2011-2014 as Chair of Section V
	Prof. Umezuruike Linus Opara	in recognition of his distinguished services during the period
		2011-2014 as Chair of Section VI
	Prof. Lanfang Zhang	in recognition of her outstanding contributions as Editor-in-
		Chief of CIGR Journal
CIGR Fellow	Prof. Luis Santos Pereira	for his international leadership and contribution to the
		International Commission of Agricultural and Biosystems
		Engineering
CICD	Dr. Lagzlo Baranyai	in recognition of his outstanding contributions as Section
CIGR	Dr. Laszlo Baranyai	
Recognition		Editor of the CIGR Journal
	Dr. Gabor Zsivanovits	in recognition of his outstanding contributions as Section
		Editor of CIGR Journal
	Prof. Fedro Zazueta	in recognition of his outstanding contributions as Section
		Editor of CIGR Journal
	Dr. José Manuel Monteiro	in recognition of his outstanding contributions as Section
	Gonçalves	Editor of CIGR Journal
	Dr. Hiroshi Okamoto	in recognition of his work in maintaining CIGR website and
		services to CIGR General Secretariat Office

	Dr. Kazunobu Ishii	in recognition of his work in maintaining CIGR website and services to CIGR General Secretariat Office
	Dr. Xin Zeng	in recognition of his work as organizer of the 8th CIGR Section VI Symposium, Guangzhou, China, 2013
	Prof. Martin Libra	in recognition of his work as organizer of the 5th International Conference TAE 2013, Prague, Czech, 2013
CIGR Armand Blanc Prize	Xin Yan	For the outstanding paper entitled "Parameterization and Calibration of the Aqua Crop Model for Assessing Soybean Biomass and Yield Application in the North China"

# Commemoration of Prof. Zoltan Sibalszky

Professor Dr. Zoltan Sibalszky has given back his soul to the creator on 14 August, 2014 at the age of 88 years. He was buried on 16 September, 2014 at the Farkasreti cemetery in Budapest.



Prof. Zoltan Sibalszky

Prof. Dr. Zoltan Sibalszky was born on 29 July, 1926 in Budapest, Hungary. He graduated at the Technical University of Budapest as Electro-Mechanical Engineer in 1949.

He joined the Agricultural Mechanical Engineering College (later University of Agricultural Sciences in 1958) in Gödöllö in 1955. He studied

electricity and become a lecturer at the Department of Rural Electricity and Machines for Animal Husbandry at the University. He was promoted as a Professor in 1967. Since then, Prof. Sibalsky has actively participated and led in the development and advancement of agricultural and biosystems engineering and promotion as well.

He became the presidential member of the Hungarian Electrotechnical Association (MEE). He was also the chair of the Committee for Electricity in Agriculture of MEE as well as an active member of the Hungarian Committee of CIGR.

Prof. Sibalszk was also a member of the CIGR Executive Board for twelve years. He likewise chaired the CIGR Section IV from 1982 to 1994.

He was able to organize and spearhead successful the conduct of various events such as the Hungarian Conferences for Electricity in Agriculture in 1966, 1971, 1975 and 1980; and the 7th and 16th International Study Days of Section IV in 1975 and 1990 in Budapest. He was also the Chair of the Organizing Committee of the 1st, 2nd and 3rd International Conferences for Rational Use of Local Energy Sources and Electrothermic Consumers in Agriculture in 1983, 1988 and 1993 in Balatonfüred, Hungary.

He also visited foreign universities and served as participant or resource person to several foreign conferences which was held in Germany, Poland, Turkey, Italy, the Netherlands, Spain, Bulgaria, Yugoslavia, England, France, the Czech Republic, USA, Japan, Indonesia, and Thailand among others.

The CIGR management and the whole agricultural and biosystems engineering society are very much grateful to Prof. Dr. Zoltan Sibalszky for his leading role and for his endless efforts towards the development and advancement of agricultural engineering, especially in the field of rural electrification and electro-techniques.

For his exemplary performance and contributions, Prof. Sibalszky received various national and international awards. Among these were the following: the Ordre du Merite Agricole de France in 1977, the Hungarian Blathy Medal in 1982, Hungarian Great Medal for Electro-techniques in 1990, University of Agricultural Sciences in Gödöllö (called as Szent Istvan University in 2000), Faculty of Mechanical Engineering ATOL Pro Facultate award in 1992. After studying for almost 42 years, he retired in 1992. However, he continued his active participation in the University and CIGR throughout his life.

Prof. Sibalszky spoke various languages. He spoke English, German and French fluently as well as Italian and Spanish language moderately. He also used Latin and Greek as a means of communication.



Prof. Sibalszky, front low centre, at the CIGR Section IV meeting at the University of Warmia and Mazury in Olsztyn, Poland in 2007

Prof. Janusz Piechock Chair of CIGR Section IV, Honorary Vice-President of CIGR.

# CIGR World Congresses and International Conferences, 2016–2018

# The 4th CIGR International Conference - AgEng Conference-2016 Automation, Environment and Food Safety

### 26-29 June 2016, Aarhus, Denmark

The CIGR (International Commission of Agricultural and Biosystems Engineering) and EurAgEng (European Society of Agricultural Engineering) will be jointly spearheading the conduct of the 4<sup>th</sup> CIGR International Conference – AgEng Conference 2016 – Automation, Environment and Food Safety which will be co-sponsored by the NJF (Nordic Association of Agricultural Scientists) and Aarhus University. The conference will be held at University of Aarhus on 26-29 June, 2016.

The preparation for the conduct for the said conferences is ongoing. Likewise, the Organizing Committee is currently leading the preliminary preparations.

For inquiries, you may send an email to the following heads of the Committee:

President of the conference: Prof. Morten Dam Rasmussen at Aarhus University

Email: mdr@ eng.au.dk

Chair of the scientific committee: Dr. Claus Grøn Sørensen at Aarhus University

Email: claus.soerensen@eng.au.dk

# The XIX CIGR World Congress 22-26 April 2018, Antalya, Turkey

During the CIGR General Assembly which was held in

Valencia, Spain on 9 July 2012, Turkey was approved to host the XIX CIGR World Congress.

The Congress will be held on 22-26 April, 2018 in Antalya, Turkey.

The Organizing Committee is already preparing for the conduct of the said event.

For inquiries, you may send an email to Prof. Can Ertekin of Akdeniz University in this email address <u>ertekin@akdeniz.edu.tr.</u>

## The 5th CIGR International Conference 2020 Integrating Agriculture and Society through Engineering June 2020, Quebec, Canada

During the CIGR General Assembly in Beijing, China on 17 September 2014, Quebec was approved to host the 5<sup>th</sup> CIGR International Conference.

The Conference will be held in June, 2020 in Quebec, Canada.

For queries, you may send an email to the Organizer and/or Organizing Committee Chair at the following email addresses: Organizer: Canadian Society for Bioengineering Email: bioeng@csbe-scgab.ca Chair of Organizing Committee: Dr. Stephane Godout at University of Manitoba Email: stephane.godout@irda.qc.ca

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#### All correspondence and information on forthcoming activities should be sent to:

#### CIGR GENERAL SECRETARIAT Professor emeritus Dr. Mikio Umeda, Secretary General

**Professor emeritus Dr. Makoto Hoki, Assistant to Secretary General** Head office: 100-73 Kitanokuchi Mozumecho Mukoshi Kyoto 617-0001, Japan Branch office: Kyoto University, Graduate School of Agriculture, Lab. Field Robotics

nch office: Kyoto University, Graduate School of Agriculture, Lab. Field Robotic Sakyoku Kyoto 606-850, Japan Phone Prof. Umeda.: +81-90-9888-4050, Prof. Hoki +81-90-9918-4987 Fax: +81-75-922-3683, e-mail: cigr-gs2014@elam.kais.kyoto-u.ac.jp

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