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First CONFEDI 2009 Workshop: " University- Secondary Education Articulation "

On April 23rd and 24th the Federal Council of Engineering Deans (CONFEDI) carried out the First CONFEDI workshop, called "UNIVERSITY- SECONDARY EDUCATION ARTICULATION ". It was organized by the School of Mathematics and Technology of the National University of Tucuman and was held at the Campus of Horco Molle, located in Yerba Buena Department which is 16 kilometers away from the capital city of San Miguel de Tucumán.

The workshop objectives were: to provide the necessary elements for the Education Ministry to create an Institutional Program which allows to establish (within a mutual agreement of University level and Secondary Education level) the competences that a Secondary Education graduate should have in order to enter the University system; to improve continuity and, as a consequence, to have a higher rate of university graduates; to set the necessary mechanisms to facilitate articulation between both educational levels since they are usually part of different jurisdictions. Also, this workshop, from a preparatory perspective, dealt with topics of the Thematic Chapter: "Engineering Education for Sustainable Development" of the World Congress ENGINEERING 2010- ARGENTINA.

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[Interview to Eng. Conrado Bauer](#)

Engineer Bauer, who is a member of the Central Executive Committee that manages the Academic Program of the World Congress and Exhibition: "ENGINEERING 2010-ARGENTINA: Technology, Innovation and Production for Sustainable Development" tells us why there have been changes in the technical program of the Congress and which the main changes are.



Question: Which are the main changes or modifications made in the technical program?

Conrado Bauer: The changes have originated as a result of an international and national assessment, carried out during the last few months, in relation to the initial proposal of holding ten simultaneous "congresses" within the World Congress. The analyzed ideas, emphasized on the convenience of concentrating, to a greater extent, the general agenda and the specific topics for each of the "congresses" foreseen in order to obtain fewer simultaneous meetings but clearly individualized ones, and to have fewer topics to be dealt with in every meeting, which in turn will allow to reach conclusions more deeply analyzed, more concrete and better prepared to be internationally adopted in a more effective way.

Question: Why has the term "congresses" been replaced by "chapters"? What is the difference?

Conrado Bauer: The change of the term "congress", in reference to each for the ten ones initially included in the "World Congress: ENGINEERING 2010-ARGENTINA", was due to the convenience of expressing its meaning, the idea that it was a unique World Congress, made up of several sub-congresses which dealt with different topics but which had to tackle the core topic of the congress: "technology, innovation and production for sustainable development" within their specializations. Therefore, it was decided to use the word "Chapter" to designate each of the sub-congresses and, in this way, indicate that despite its leading autonomy and its international nature, they were not independent from each other but, each and every one of them are part of a unique World Congress (Chapter as part of a whole).

Question: Which are now the main chapters of the World Congress ENGINEERING 2010-ARGENTINA?

Conrado Bauer: Currently, the technical program consists of eight Chapters: four Technical ones, four Specific ones and two Forums.

Specific Chapters (technical)

1. Information and Communications Technologies -ICTs
2. Energy and climate change- ECC
3. Innovation in primary production and agro alimentary industries - IPPAI
4. Large metropolis and their infrastructure - LMI

Thematic Chapters (conceptual and informative)

- 5. Engineering education for sustainable development - EESD
- 6. Engineering professional practice - EPP

Forums (conceptual and promotional)

- 7. Women in engineering and business - WEB
- 8. Young people in engineering and business - YPEB

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**Invitation:
2nd Plenary Meeting of the National Advisory Council**

The National Advisory Council, body of the organizing team and center of academic information and interaction between ENGINEERING 2010-ARGENTINA and government and private institutions is calling for its **2nd. Plenary Meeting**.

The purpose of this extensive face-to-face meeting is to inform the topicality of the program and encourage interchanging ideas, opinions and remarks in order to contribute to a more effective organization and execution of the Congress, as well as to foster the possibility of joining work teams.

This 2nd meeting will be held at the Argentine Center of Engineers' venue, located in Cerrito 1250, on **May 13th- Wednesday from 10.00 a.m. to 12.30 a.m.**

For further information call: 4812-0440 Extension 108 and 136 or by e-mail to: coordination@ingenieria2010.com.ar; coordinacion@ingenieria2010.com.ar, asistentedireccion@cai.org.ar.

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**OPINION
Necessary cornerstones for the new Audiovisual Communications Law
By Eng. Luis Perazo ***

In 1972 our country was under the de facto presidency of Lieutenant General Lanusse. The meetings about the television programs were held by the Joint Chiefs of Staff.

By the end of that year the licenses granted to private companies in charge of television channels were declared to have expired. Back then, the state-owned monopoly that supplied telecommunication services: National Company of Telecommunications (ENTEL), transmitted voice to long-distance by means of a technology based on "coaxial cable" (a broad band cable that no longer exists) and managed to establish communications through commuting electromechanical stations (consisting of mechanical elements which moved according to the telephonic dialing) called "cross bar". These have already been replaced by two generations of totally electronic equipments.



There was neither the Internet nor mobile phones in those times.

Within this context, Law 19.978 was passed in Argentina in order to rule telecommunications and form the Broadcasting Federal Committee (COMFER) which replaced the former Broadcasting and Television Agency (ERT) in regulating, controlling and supervising the installation and operation of radio and TV stations all over the country.

In 1980 color television arrives in Argentina and Law 22.285 is passed. This law legislates radio broadcasting and isolates it from telecommunications. Both laws are currently in force, jointly with a large amount of complementary executive orders. These laws were created without public debate or consensus or Congress. As from that moment, technology has exceeded all legislations and keeps on doing so: services digitalization, technological developments in microelectronics, fiber optics and finally the convergence of technology and services which, undoubtedly, demand a review of the current legislation. Democracy has finally settled among us.

The foreseen law reform is based on four basic cornerstones:

1. - integration of telecommunications and radio broadcasting (multiple accesses and contents)
2. - motivation to accept adapting to technological transformation which is permanent and grows exponentially.
3. - confidence in a clear and egalitarian regulation with the purpose of getting long term investments and access to the whole population.
4. - preventing media monopolizing policies that could harm impartiality and diversity of information and contents.

** President of the Specific Chapter "Information and Communications Outlook" of the World Congress and Exhibition: "ENGINEERING 2010-ARGENTINA"*

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Visit of Prof. Luiz Scavarda do Carmo

On April 3rd at the Argentine Center of Engineers (CAI) we welcomed Prof. Eng. Luiz Scavarda do Carmo, Coordinator and Responsible-General for the Technical Program of the World Engineering Convention 2008 (WEC 2008) held in Brasilia, in December 2008, and member of our International Advisory Council for ENGINEERING 2010-ARGENTINA.



During the morning Prof. Scavarda met with the Central Executive Committee for the organization of the World Congress ENGINEERING 2010-ARGENTINA in order to share remarks on the successes and difficulties encountered during the organization of the meeting in Brasilia, as well as to put forward his conclusions. In the afternoon he met with the presidents of the organizing commissions for the Chapters which are part of the Technical Program of ENGINEERING 2010-ARGENTINA.

Scavarda do Carmo spoke about the core topic of WEC 2008 and about how he managed to establish a more direct connection with society so that the event was not sensed as an event only for engineers. He commented on how the most relevant and current issues in dealing with the topics were incorporated. Also, he pointed out that communication and information are basic tools to reach success in the event.

Before ending he disclosed the keys aspects on the strategy adopted in the program so as to guarantee the same success reached at WEC 2008.

Currently, Eng. Scavarda do Carmo is a professor and Vice President of the Pontifícia Universidade Católica do Rio de Janeiro (PUC)

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Important attendance to the Conference: "Water: General Uses and Energy"



The conference on Water: General uses and Energy was held on April 24th in Neuquén city, at the venue of National Museum of Fine Arts (MNBA). It was a preparatory activity for the World Congress ENGINEERING 2010- ARGENTINA that will take place in our country next year.

The event had the attendance of more than 180 people among whom were many professionals of the region and personalities of the public and private fields.

The opening ceremony was led by the Vice governor Ana Pechen; the Mayor of Neuquén, Martín Farizano; the president of the Center of Engineers of Neuquén (CIN), Mario Bayarsky; and the president of the Argentine Union of Engineers (UADI) and of the Organizing Committee of ENGINEERING 2010-ARGENTINA, Mario Telichevsky. During the opening speeches and successive panels, specialists remarked the great importance that the water basin of Neuquén, Lima and Río Negro has for the country not only because of its freshwater flow but also because of its capacity as hydraulic energy generator. Besides, they mentioned as key issues the two large works that are being carried out in Neuquén: Mari Menuco- Junction Aqueduct and Chihuido I Reservoir.

Dr Homero Bibilone, Secretary of Environment and Sustainable Development of the Country, was in charge of the closing speech which was a conclusion of a meeting where the Vice president of the organizing committee for the Chapter "Energy and Climate Change", Eng. Julio García Velasco and Neuquén's representative of Basins Interjurisdictional Authority (AIC), Mr. Elías Sapag, among others, expounded. Furthermore, Mr. Sapag provided numerous details about what the multipurpose Project Chihuido I, which tender will be open in a few days, is like.

The conference, which was jointly organized by the Center of Engineers of Neuquén and the

Argentine Union of Engineers, is part of a series of preparatory meetings that will be held along the next few months in several points of the country, within the frame of the World Congress and Exhibition ENGINEERING 2010- ARGENTINA.

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Editorial ENGINEERING 2010-ARGENTINA, a starting point

The exhibition of ENGINEERING 2010-ARGENTINA will present the XXI century innovations produced by companies supplying goods and services and the technical divisions of the government, in all the aspects related to technology including materials, objects, machinery, processes and methodology.

The Congress, on its part, will comprise eight chapters to discuss, from different interest viewpoints, the international situation and the future evolution perspectives considering the core topic: Technology, Innovation and Production for Sustainable Development.

It goes without saying how meaningful the topics tackled are, how important international interchange is and how significant it is for engineering and productive companies to join forces so as to boost integral and sustainable development as well as the advance towards reaching the Millennium Development Goals adopted by the UN Organization.

The scheduled meetings and their proposals are particularly meaningful for our country and for the programs oriented to boost productive growth with added value and technological innovation. It is important to work towards the international success of the Congress and Exhibition for what such success could mean in terms of internal improvement of national productive sectors and also due to its connotation for the worldwide awareness of the respective reality and Argentina's future possibilities.

At the conference held in Neuquén on April 24th, we made sure of dealing with aspects included in the Chapter on energy and climate change. Such topics are related to and have to do with our planet preservation and quality of life.

Our country needs to move from growth to development. As Paulo VI pointed out: "Development is the new name for Peace". ENGINEERING 2010- ARGENTINA is an important tool to start walking the path.

"Development is the new name for Peace". ENGINEERING 2010- ARGENTINA is an important tool to start walking the path.

We are getting ready to welcome friends from all over the world so as to get encouraged and trained with them in order to build a better society. In the year of our Nation's bicentennial,



Argentina must be a reaching hand.

Till next publication.

Eng. Mario Telichevsky
President of the
Central Executive Committee
World Congress and Exhibition
ENGINEERING 2010 - ARGENTINA

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Activities Schedule

Date	Location	Organizing Institution/s	Topic
16, 17, 18 JUN 2009	CORDOBA	Center of Engineers of Córdoba	ITCs
AUG 2009	MAR DEL PLATA	Center of Engineers of Mar del Plata	Professional Practice
SEP 2009	ROSARIO	Center of Engineers of Rosario	Agro alimentary and Biotechnical Industries
OCT 2009	LA PLATA	Center of Engineers of Buenos Aires Province	Engineering Education
NOV 2009	SAN JUAN	Center of Engineers of San Juan	Mining and Energy
TO BE DEFINED	CHUBUT	Center of Engineers of Chubut	Wind Power

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ENGINEERING 2010-ARGENTINA is organized by:

UADI (Argentine Union of Engineering Associations)
CAI (Argentine Center of Engineers)

Co-organized by:

FADIC (Argentine Federation of Civil Engineering)
Construction Board
UIA(Argentine Industrial Union)

Promoted by:

WFEO (World Federation of Engineering Organizations)
UPADI (Pan-American Union of Engineering Associations)
ISTIC (INTERNATIONAL CENTRE FOR SOUTH-SOUTH COOPERATION IN SCIENCE, TECHNOLOGY AND INNOVATION)

Declared of interest by:

Presidency of the Nation

Honorable Chamber of Senators
Government of Buenos Aires City

Sponsorship:

National Academy of Engineering
Ministry of Science, Technology and Productive Innovation
Ministry of Education - Argentine National Commission of Cooperation with UNESCO
Ministry of Federal Planning, Public Investment and Services
IAPG (Oil and Gas Argentine Institute)
INTA (National Institute of Agricultural Technology)
CONFEDI (Federal Council of Engineering Deans)
Argentine Railroads Institute
Central Association of Architects
Argentine Board of Aluminum and related metals industry.

ENGINEERING 2010-ARGENTINA has the support of the following companies:

Aysa - Banco Nación - Gas Natural Argentina - Volkswagen - Organización Techint - YPF