

**CALL FOR PAPERS AND
SECOND ANNOUNCEMENT**

ENGINEERING 2010 ARGENTINA

**World Engineering Congress and Exhibition
17-20 October 2010 | Buenos Aires**

World Engineers' Week (WEW 2010)



**TECHNOLOGY, INNOVATION AND PRODUCTION
FOR SUSTAINABLE DEVELOPMENT**

MESSAGE FROM THE PRESIDENT OF THE CONGRESS AND EXHIBITION

Dear friends,

We are moving ahead with the organization of this important event. Now the time has come to invite all engineers and the other professionals and entrepreneurs all over the world, to submit their papers to the World Congress and Exhibition ENGINEERING 2010-ARGENTINA in order to share successful researches, experiences and knowledge.

We need your help to highlight the active participation of engineering in society and the importance of technology, innovation and production in achieving peace, the improvement of life conditions, equity and people's social inclusion.

Therefore, ENGINEERING 2010-ARGENTINA, with the topic "Technology, Innovation and Production for Sustainable Development", will be an excellent opportunity to strengthen ties among countries, under the sponsorship of the World Federation of Engineering Organizations and UNESCO. The World Congress expects to welcome many expositors to present their innovations at the Exhibition and the participation at the Congress of more than 5,000 representatives of engineering associations, consultancy groups, the business, productive and industrial sectors, research institutions, academies and governmental authorities to debate about engineering and its contributions to society.

Papers will be evaluated by outstanding engineering professionals, academicians and personalities related to the productive sector. These works will be shared during the Congress and Exhibition with colleagues and firms from all over the world and they will help us discuss and enrich their contents and think thoroughly about the present advances of different issues to which engineering makes substantial contributions.

We look forward to seeing you in October 2010 in Buenos Aires, welcome!



A handwritten signature in blue ink, appearing to read "Mario Telichevsky".

Eng. Mario Telichevsky
ENGINEERING 2010 - ARGENTINA
President

Organizers

Argentine Union of Associations of Engineers (UADI)

The Argentine Union of Associations of Engineers (UADI) is formed by 26 engineering centers disseminated all over the country and other engineering and technology organizations, it holds meetings and courses to enhance and update engineers' education and training with the aim of promoting the contribution of engineering to the development and discussion of technical issues of national and international interest.

For more information on UADI's activities and services please visit www.uadi.org.ar



Argentine Center of Engineers (CAI)

The Argentine Center of Engineers is a non-profit organization founded in 1895 with headquarters in Buenos Aires City. Its members are engineers, architects, land surveyors and other professionals from related fields, institutions and companies interested in fostering a greater contribution to the national work. It constitutes a reference framework to any interdisciplinary activity that aims at boosting the country growth. It currently has around 8,000 members.

For more information on CAI's activities and services please visit www.cai.org.ar



CENTRO ARGENTINO DE INGENIEROS

CONGRESS OBJECTIVES AND CONTENT

Objectives

The objectives of ENGINEERING 2010-ARGENTINA intend to foster a widespread knowledge and discussion, with international significance, of the technological advances, innovations and interaction between engineers and productive forces, as well as their social influence on the way of life of the current society. It will be an opportunity for engineering to disseminate and contribute to create awareness in the society it serves about the scope of its tasks and its professionals' capacity as well as the social commitment implicit in its undertakings. The Congress will enable engineering professionals and businessmen of the goods and services production area to appreciate the latest technological advances and discuss the opportunities they offer to effectively advance in the search of sustainable development.

Particular objectives are:

1. Gathering engineers in the national Argentine field as well as the American and world fields in order to intensify and stimulate their relations and actions together with those of the related professions and activities, fostering the dialogue with all sectors.
2. Having the engineers work jointly with the productive forces so as to achieve the convergence that may strengthen their cooperation leading to sustainable development with environmental protection, equity and social inclusion as defined by the United Nations World Summit in 1992 in Rio de Janeiro.
3. Consolidating an indissoluble chain among engineering, education, research, innovation and industry. Summoning, for that purpose, engineers, businesspeople, researchers and teachers that play a leadership role in the public and private sector.
4. ENGINEERING 2010 - ARGENTINA is being organized to intensify the engineers' commitment to the compliance of the United Nation program: "Millennium Development Goals" convened in 2000 in New York (eradicate poverty and hunger; achieve universal primary education; promote gender equality; reduce child mortality; improve maternal health; combat HIV/AIDS, malaria and other diseases; ensure environmental sustainability; build a global partnership for development). Also it aims to adopting the urgencies agreed in 2002 in the World Summit of Johannesburg (water, energy, health, agricultural and food, biodiversity).

Key Dates

- | | |
|--|-------------------------|
| • Deadline for abstracts submission | April 30, 2010. |
| • Abstract acceptance notification and invitation for submission of final papers | May 15, 2010. |
| • Deadline for final papers submission | June 30, 2010. |
| • Paper acceptance notification | August 31, 2010. |

Exhibition and Congress Schedules

The Exhibition will take place on October 18-20, 2010 and the Congress will be held on October 17-20, 2010, from 9:00 a.m. to 1 p.m and 3 p.m. to 7 p.m. every day. On Sunday 17, the Forums will work all day long.

The Opening Ceremony will be on the morning of Monday 18 and the Closing Ceremony, on the late afternoon of Wednesday 20. The six Technical Chapters will be simultaneously developed on October 18-20, with 4-hour working sessions, on Monday afternoon, Tuesday morning and afternoon, and Wednesday morning.

Before and after the Congress, October 12-16 and October 21-24, there will be institutional and technical meetings of WFEO, UPADI, the Pan American Academy of Engineers and other Argentine and International Organizations.

Sessions and Keynote Speakers

The Opening Ceremony will take place at the morning of Monday 18 October 2010. After the institutional opening, the Ceremony will finish with two special keynote lectures, offering a high level framework for all the Congress: one to describe the economic and political situation worldwide and the other to analyze the vision of the present world engineering action. The respective keynote speakers will be Dr. Enrique Iglesias, ex president of IDB and current Ibero-American Secretary, and Eng. Dato Lee Yee Cheong, ex WFEO President and current chairman of the governing board of ISTIC, the UNESCO Science, Technology and Innovation for South-South Cooperation, located in Malaysia.

Every technical chapter is under construction to complete the list of invited speakers and will include special lectures, which will be announced in due course.

TECHNICAL CHAPTERS

Characteristics, Topics and Purpose of the Chapters

The topics to be considered by individual authors of papers and to be discussed in the different sessions will be centered on the main theme of the Congress (Technology, Innovation and Production for Sustainable Development) and on the basic concepts of each chapter, its current problematic and future outlook, proposing objectives, programs and/or policies to be agreed at different levels thus allowing discussions, conclusions and concrete feasible recommendations of international application.

A – Specific Chapters

1. Information and Communication Technologies. - ICTs

• ICTs and Society

Redefining the technological determinism concept (Marx and Smith, 1994). Analyzing the influence of these technologies on all the working areas, communication and knowledge, generating new social concepts. What is the change outlook? Distortions, dangers, positive aspects. Requirements to find virtue in changes.

• Influence of Technological Development and Safety on ICTs

The most focused aspects in engineering must comprise information technology developments, telecommunications and media, as well as general technology which finds application fields in all the ICTs (nanotechnology, alternative feeding sources, etc.). Multimedia. Challenges and objectives of a new discipline: "Safety in ICTs": Ensuring information and resources so they can be accessed and used by only credited people within the boundaries of authorization. Crimes and wrongdoings that violate such safety. Their solutions. Damage and robbery of information and data, Information piracy, in relation with technologies and legal aspects.

President: Luis Perazo. Vicepresident: Luis Vergani.

2. Energy and Climate Change.- ECC

• Energy

Political and economical aspects in the development of sustainable energy. Possibility of development and integration of renewable and non conventional resources. Nuclear energy advantages and disadvantages. Financial requirements and strategy to cover growth of energy for the next 20/30 years. Public and private integration in the production and distribution of energy. Importance of regulation. The role of regional markets. Improvement in energy quality and efficiency. Improvement in access to affordable and sustainable energy to one third of the world population without supply.

• Climate Change

Climate and energy scenarios. Alternatives for adaptation and mitigation policies in the energy sector. Demand management, energy efficiency and sustainable lifestyles. Decentralized energy generation. Carbon capture and sequestration. Adaptation needs and issues. Low-carbon project engineering. After-Kyoto agreements and developing countries role. Incentives and international cooperation for capacity building and technology development.

President: Mario Wiegers. Vicepresidents: Julio García Velasco, Manuel Scottó.

3. Innovation in Primary Production and Agro-Alimentary Industries. - IPPAI

• Contribution of Engineering Specializations to Food Production

Innovating developments in machinery and agricultural equipments, systems of agricultural and livestock production, agroindustrial processes. Innovating developments in stocking, storage, preservation and transport of grains and meats. Innovating developments in agrobusiness and management of agroindustrial quality.

• Biotechnology Application in Primary Production and Agro-Alimentary Industries

Biotechnology and new plant and animal based foodstuffs.

Biotechnology and vegetal production.

Waste management and recycling through biotechnology in the agro alimentary industry and other industries.

Biotechnology and its social and environmental impact.

President: Juan Moscato. Vicepresidents: Sandra Fernández, Carlos Mufarregé.

4. Large Metropolises and their Infrastructure.- LMI

Chapter coordinators: Antonio Federico, Norberto Pazos.

• Water

Water and sanitation in urban settlements. Their provision and management. Flood prevention and operative actions.

President: Victor Pochat. Vicepresident: Raúl Lopardo.

• Transport

Energy restrictions and new technologies in urban transport systems. Means and jurisdictions' complementation and coordination.

President: Máximo Fioravanti. Vicepresident: Gastón Cossettini.

• Urban Settlements

Irregular settlements and social inclusion. Action of international institutions on human settlements. Sustainability concept.

President: Luciano Gronda. Vicepresident: Norberto Pazos.

• Large Metropolises

Advantages and problems. Large metropolises competitiveness. Innovative urban planning and management of cities.

B – Thematic Chapters

5. Engineering Education for Sustainable Development.- EESD, and 8th World Congress on Engineering Education (8WCE)

Organized jointly with WFEO Standing Committee on Education and Training. (WFEO/CET)

• Active, Participative, Creative and Ethical Education

Towards a permanent and responsible education. The use of new technologies to serving as active tool and promoting participation and creativity. Detection of early vocation.

• Engineering Education, its Sustainability and Mobility

Sustainability and mobility and its connection with the services and productive sectors. Entrepreneurship. Quality evaluation systems.

President: Luis Vaca Arenaza.

6. Engineering Professional Practice. – EPP

• Professional Practice Control

Systems used for that purpose. Delegation of this control on institutions created by law.

• Engineer's Professional Ethics. Its Role in relation to Sustainable Development and Production

The interests of society, future generations and productive sectors. Referent ethical framework for engineers to increase production with social equity and without jeopardizing the environment.

President: tba. Vicepresidents: Hugo Chevez, Alejandro Perez Vargas, Rodolfo Piastrellini.

C – Forums

7. Women in Engineering and Business. – WEB

• Women, Engineering and the Productive Sector for Sustainable Development

Strategies to promote interest and women's access to engineering studies. Strategies and policies to overcome such difficulties. The role of elementary education in women's vocations towards engineering.

Involvement of women engineers with worldwide actions to advance to sustainable development, the eradication of poverty and the protection of environment. The contribution of women to the humanization of engineering.

• Development of Women Engineers' Professional Activities

New opportunities and challenges offered by technology in relation with engineering, women and business.

Fostering women entrepreneurship in the technology sector.

Strategies for women that come back to work after a while, how to restart their careers.

President: Olga Cavalli. Vicepresident: Silvia Wolansky.

8. Young People in Engineering and Business. – YPEB

• Innovation with Social Impact

Which is the role that young professionals perform in the development of products and process innovations? What characteristics differentiate innovation originated in developing countries and the one originated in developed countries within the new clean energy, green industry and social inclusion paradigms? What are the new opportunities and challenges offered by technology in the creation of technology-based businesses?

• Young Engineers Labor Market

Which are the young new generations' characteristics and the new engineers' in particular? What is the labor market for young engineers like? Are there any differences between market and society's requests and the offer of professional provided by academic institutions? What is the role of the professional associations of engineers in promoting engineering and in developing the labor market for young engineers?

• Vision of the Future of Engineering

Which is the vision of engineering students, young professionals and entrepreneurs about the future of their activities? Which are the main technology-based challenges that the new generation will face? What impact could engineering developments have in social welfare?. How does globalization influence the vision of the future of engineering?

President: Pablo Bereciartua.

This Forum is opened to the participation of young professionals of up to 40 years old, or engineering students with 75% of the career courses approved. Special conditions will be offered to encourage the participation of young engineers.

CALL FOR PAPERS

General Conditions for Papers

1. The papers to be submitted must focus on the core topic of the Congress: “Technology, Innovation and Production for Sustainable Development”, and on the guidelines and objectives of the corresponding Chapter in accordance with the following possibilities: 1) Unpublished papers presenting research personally performed by the submitter, either individually or together with other people; 2) Unpublished papers of technical descriptions, interpretations and comments; 3) A substantially updated and adapted version of previous papers.
2. Every paper must include an abstract no longer than 150 words.
3. The reception of abstracts and papers will be confirmed by e-mail immediately after being received.
4. Those persons who are planning to submit papers must first send the abstracts of such papers. After receiving abstract acceptance notification, the presenting authors will send the final paper which text must not exceed 2,400 words.
5. All abstracts and papers will be peer reviewed by the Organizing Committee of each Chapter who reserves the right to accept and reject abstracts and papers considering their accomplishment of form and content requirements for inclusion in the Congress Program.
6. Presentation of papers during the Congress will be made by their authors in one of the following ways: 1) Individual oral presentation; 2) Oral presentation at a panel or round table; 3) Graphic presentation by means of posters. The Organizing Committee of each Chapter will consider the characteristics of every paper and the available time during sessions so that presentations be made according to one of these alternatives.
7. Papers which are not selected will not be given back to their authors.
8. Presentation of papers during the Congress will have to be made personally by their authors; proxies will not be accepted to replace them.
9. Abstracts of the selected papers, whose authors have registered to participate in the Congress before August 31, 2010, will be included in a printed issue to be distributed to all the registrants at the beginning of the Congress.
10. The two most outstanding final papers selected in each Chapter will be awarded an acknowledgement certificate and will be part of the Congress Proceedings, which will include the most significant information of the Congress, its conclusions and recommendations, and information about the participants. This Congress Proceedings will be published after the end of the Congress.
11. Abstracts must be submitted either in English or in Spanish. In case they are accepted, authors must send the final papers in English or Spanish, preceded by the abstract in the two languages. It would also be advisable, though not compulsory, that the authors submit the final paper in both languages before the beginning of the Congress.

Papers Submission

The papers for the different Chapters will be submitted by e-mail to the Coordination Secretariat or over the Submission link on the website. However, in exceptional cases where local infrastructure for accessing electronic mail or Internet is not available, submissions by ordinary means (fax or post) will be accepted.

Coordination Secretariat

Mailing Address: Cerrito 1250 – (1010) Buenos Aires – Argentina

Phone: +5411 4810 0408

Fax: +5411 4810 0409

Website: www.ingenieria2010.com.ar

E-mail: coordination@ingenieria2010.com.ar

General Policies and Requirements for the Submission of Papers

1. Abstracts

Abstracts to be presented at the Congress should define the precise subject of the presentation and respond to the theme of the Congress and the guidelines and objectives established for each of the chapters above mentioned. The text of the submission, will be headed by name of paper and author (or authors), respective affiliation, the corresponding Chapter to be submitted and separately, below it, the heading ABSTRACT, centered in the line.

2. Final Papers

The complete text of the final papers should not exceed 2,400 words or eight written pages. These could be complemented by no more than three pages of charts, drawings and bibliographic references. All pages should be headed by the name of the paper and its Chapter and the author (or authors).

Bibliographic references accompanying the papers should be included at the end and, according to international practice, i.e. author's name, year, name of the work, page, edition, etc.

3. Format and Papers Presentation (Abstract and final Paper)

Paper size should be A4 (210 x 297 mm)

- Papers should be submitted in digital support using the following programs: 1) Texts: Word 97 or later version.
- 2) Spreadsheets and graphs: Excel 97 or later versions. 3) Drawings: AutoCAD 14 or later versions.
- Font: Times New Roman 12-point.
- Top margin: 3 cm. Bottom margin: 2,5 cm.
- Margins: Left and right: 3 cm.
- Justification: Fully justified. Spaced: 1,5.
- Space between different headings: double space
- Headings: Times New Roman 14-point. Bold and justified.
- Sub-headings: Times New Roman 12-point. Bold and justified.
- Leave two spaces between the heading and the initial paragraph of the paper.
- Page numbers in the center at the foot of the page: 11-point.
- An example of paper presentations will be available to download at www.ingenieria2010.com.ar, after the beginning of August.

4. Copyright

By submitting the paper: 1) the author declares that it has not been and will not be published on any other event prior to World Congress and Exhibition: ENGINEERING 2010-ARGENTINA, 2) the author accepts that, after the conference, the paper could be included in the proceedings of the Congress, 3) the author also accepts to include the following copyright statement at the end of the paper:

“Copyright ©2010. “name of author”: The author assigns to UADI/CAI a license to reproduce this document for the congress purpose provided that this article is used to publish in full or in an abbreviated or edited form in the congress Internet website, on CD and in printed form within World Congress and Exhibition: ENGINEERING 2010-ARGENTINA's proceedings.”

GENERAL INFORMATION

Buenos Aires, hosting city

Buenos Aires (Argentina)

Buenos Aires is one of the world's biggest cities with over 12,000,000 inhabitants, including the suburbs. It is also one of the most active, elegant, and cultural cities in South America and the one that concentrates the diverse characteristics of Argentines. With a modern structure and dynamic functioning, it has been managed to preserve old traditions and endearing corners. Buenos Aires is the site of the Teatro Colón, one of the world's greatest opera houses, side by side of the most popular tango and rock expression of the country.



Argentina Tours for visitors

LITORAL. North Eastern Region

This is a region of large rivers, humid tropic climate, red earth, a magnificent virgin forest with extraordinary flora and Fauna and Great waters ("Iguazú") overflowing into one of the world's wonders: the Iguazú Falls.

THE NORTH. North Western Region

This region offers landscapes full of contrast to enjoy, from the colored mountains to the plains, from the salt pans to the rain forests, with many places where Inca culture remains.

CUYO REGION. Central Western Region

Cuyo is the region of high and snow-covered peaks that displays the full splendor of the Central Andean Range. It lodges the main wine production of Argentina.

CÓRDOBA. The Central Region

A hilly landscape and favorable weather conditions are distinctive in Córdoba, a place where natural sceneries are mixed with colonial monuments. Little towns, historical antiques and cave paintings are found in pleasant valley landscapes.

PATAGONIA. The South of the Country

The end of the Andes mountain range shows its beauty in the Patagonian provinces. Millennial silent forests with native species are extended along the shores of glistening waters. Granite peaks and ice fields spreading their glacier tongues into lakes of unsurpassable beauty. At the south end is Ushuaia, the southeast city of the world.



Congress Fees, Hotel Accommodation, Technical Tours, Transportation Facilities and Visas

The Central Executive Committee jointly with the professional congress organizer (logistic organizer) is preparing final decisions on the following items: 1) Congress fees will be set at the usual rates for this kind of event, taking into account categories such as: international, neighboring countries, and Argentine professionals. Special reductions will be offered for early registration and for young professionals and accompanying persons; 2) a wide range of hotels in Buenos Aires will be offered with special rates; 3) a selected list of technical visits and tourist local tours will be proposed. 4) the official airline of the Congress and Exhibition will offer reduced air-tickets cost; and 5) the system of free cost visas with the list of countries where they are granted will be facilitated.

This information, jointly with registration forms, will be available at the website www.ingenieria2010.com.ar as from September 2009. Hotel and tour detailed information and on-line reservations will be available at the website as from February 2010.

Venue of the Congress

ENGINEERING 2010 - ARGENTINA will be held in "La Rural, Exhibition Center", specially equipped for Exhibitions and Congresses. Distanced fifteen minutes from downtown Buenos Aires, the pavilions, convention halls and main auditorium are equipped with modern technology. Besides, it has a dining room, outdoors and green spaces, and a parking lot capable of hosting a thousand vehicles.



International Exhibition

The Exhibition will include machines, equipment, industry tools and services, devices, goods and new system of organization or production exhibited by private companies, as well as governmental institutions, all of them showing the new technologies and innovations of the third millennium. The main information on the International Exhibition and the invitation to companies and institutions from all over the world to participate in it, will be included in the website www.ingenieria2010.com.ar as from September 2009.

WORLD CONGRESS AUTHORITIES

Honor Committee

President of Argentina
 Governor of the Province of Buenos Aires
 Chief of Government of the City of Buenos Aires
 Outstanding World and Argentine Engineers, Businessmen, Academicians and Cultural Personalities

Central Executive Committee (CEC)

Mario Telichevsky	President
Mario Wiegers	Vicepresident
Conrado Bauer	Academic Director
Carlos Ballester	Member
Luis Di Benedetto	Member
Pedro Brunori	Member

General Secretariat

María Eva Argiz	General Secretary
Carina Carrasco	Coordinator

International Advisory Council (IAC)

Board:

Kamel Ayadi	Tunisia	President
Conrado Bauer	Argentina	Vicepresident
Barry Gear	Australia	Vicepresident
María Jesús Prieto Laffargue	Spain	Vicepresident
Dato Lee Yee Cheong	Malaysia	Vicepresident
José Medem San Juan	Spain	Vicepresident
Bud Carroll	United States	Vicepresident

Tony Marjoran	UNESCO
Tahani Youssef	WFEO
Luis Scavarda do Carmo	Brazil
Xila Liu	China
Irene Campos	Costa Rica
Ivette Ramos	France
Peter Herrmann	Germany
R. P. Gupta	India
Ishii Yumio	Japan
Al Ayad Homoud	Kuwait
Pablo Realpozo del Castillo	Mexico
Daniel Favrat	Switzerland
Tijani Ben Jemaa	Tunisia
Tony Ridley	United Kingdom
Mike Sanio	United States
Claudio Dall'Acqua	Brazil
Marcos Tulio de Melo	Brazil
Jorge Spitalnik	Brazil
Carlos Ballester	Argentina
Mario Telichevsky	Argentina

National Consultative Council (NAC)

For the Congress

Board:

Miguel Angel Yadarola	President
José Ignacio de Mendiguren	Vicepresident
Gustavo Weiss	Vicepresident
Domingo Martín Gandolfo	Vicepresident
Francisco Bobadilla	Vicepresident
Hugo Chevez	Secretary

Business-Professional Promoting Council (BPPC)

For General Organization and Exhibition

Board:

Horacio Cristiani	President
Luis Di Benedetto	Vicepresident

Exhibition Organizing Committee

Israel Mahler	President
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Communication and Public Affairs Committee

Pedro Brunori	President
Carlos Ballester	Vicepresident
Cintia Perazo	
Esteban Guaia	
José Ramón Miranda	
Mario d'Ormea	

SPONSORS

The Central Executive Committee would like to thank the following institutions for their initial sponsorship of **ENGINEERING 2010 - ARGENTINA**



Institutional Sponsors



ENGINEERING 2010 ARGENTINA

World Engineering Congress and Exhibition
17-20 October 2010 | Buenos Aires

The Central Executive Committee would like to thank the following institutions for supporting
ENGINEERING 2010 - ARGENTINA:

Organizers:



CENTRO ARGENTINO DE INGENIEROS

Co-organizers:



Sponsors:



Declared of Interest by:



Buenos Aires
Gobierno de la Ciudad



Honorable Senado
de la Nación

Contact us:

Cerrito 1250 (C1010AAZ) Buenos Aires, Argentina
Tel-Fax (+54-11) 4810 0408 / 0410 / 4812 0440 Ext: 102 / Fax (+54-11) 4810 0409
coordination@ingenieria2010.com.ar

For more information visit our web page:
www.ingenieria2010.com.ar

Congress Organizer:

