

**INTERNATIONAL CONFERENCE
ON ENGINEERING EDUCATION (ICONEED)**

**Cartagena de Indias, Colombia
October 14 - 16, 2007**

**CONVENED BY THE CARTAGENA NETWORK OF ENGINEERING
RCI**

WITH THE SUPPORT OF

SERVICIO NACIONAL DE APRENDIZAJE, COLOMBIA	SENA
INTERNATIONAL FEDERATION OF ENGINEERING EDUCATION SOCIETIES	IFEES
SOCIÉTÉ EUROPEEN DE FORMATION EN INGENIERIE	SEFI
INTERNATIONALE GESELLSCHAFT FUER INGENIEUR PAEDAGOGIK,	IGIP
AMERICAN SOCIETY OF ENGINEERING EDUCATION,	ASEE
ASOCIACIÓN IBEROAMERICANA DE ENSEÑANZA EN INGENIERÍA	ASIBEI
LATIN AMERICAN AND CARIBBEAN CONSORTIUM OF ENGINEERING EDUCATION,	LACCEI
ASOCIACIÓN COLOMBIANA DE FACULTADES DE INGENIERÍA	ACOFI

BACKGROUND

In September 2006, representatives, educators, and other engineering education stakeholders from across the globe came together and established a network to promote the training of engineers under the concept of internationally interconnected higher education. These partners also agreed to work together to establish agreements of multilateral cooperation between respective institutions. These institutions are willing to promote the mobility of students and professors, as well as business internships, double diplomas, masters and doctorate degrees, and even the mobility of institutions for complementing those belonging to the countries in areas of common interest. The CNE currently has 50 member institutions from 19 countries.

Engineering plays a distinctive role in development and worldwide progress, and is therefore undergoing a process of reform. Within university engineering faculties, engineering schools, and technical and technological training centres, individuals are working to consolidate long term technological development through scientific transfer and infrastructure, to maintain the quality of scientific and technological projects, and to be in continual communication with technological and scientific innovation. Long-term planning is necessary for promoting sustainable development through strategies that will effectively solve the problems of high technological dependence and underdevelopment.

With this in mind a number of initiatives have been launched, led by institutions of excellence and aimed at modernizing engineering education. Of these, the following stand out:

1. The concept of “educational engineering” of the Ecole National d’Ingénieurs de Metz, ENIM. This institution sees engineering education and training as similar to a company’s productive process: inputs – transformation – final product, a quality engineer.
2. The “learning factory” concept developed by the University of Pennsylvania in association with HP, with teaching methods by competencies.
3. The “active learning in engineering” concept supported by the Société Européen pour la Formation des Ingénieurs.

4. The new curricular developments promoted by the associations of engineering faculties and schools. These are being discussed by the International Federation of Engineering Education Societies- IFEES, the Asociación Iberoamericana de Asociaciones de Enseñanza de Ingeniería- ASIBEI, the Latin American and Caribbean Consortium on Engineering Education-LACCEI, the International Society for Engineering Education IGIP, among others.

In view of these facts the Cartagena Network of Engineering RCI is convening the International Conference on Education Engineering (ICONEED) in Cartagena de Indias, Colombia, from October 14 to 16, 2007. This meeting will be held immediately prior to the 25th anniversary celebration of ASIBEI, which will be held from October 16 – 20 in the same location.

OBJECTIVES

GENERAL OBJECTIVE

To convene a group of experts from international engineering education institutions to exchange concepts, methodologies and work philosophies on the training of engineers; and to adopt a cooperative work scheme that will facilitate joint excellence in engineering education.

SPECIFIC OBJECTIVES

1. To share and analyze the experiences from experts and institutions in drawing up teaching methods, curriculums, and practical working methods for engineering education.
2. Proposing a plan for action in the training of engineers. This will allow those institutions attending to mutually benefit from each other, thus creating synergies for international cooperation in this area.
3. Organizing different work groups around specific issues related to engineering education, and proposing and selecting their corresponding coordinators and follow-up activities.
4. Defining the work schedule for 2007-2008.
5. Convening the Second ICONEED in order to discuss the progress made in the different activities put forth at this conference.

This event will also be an opportunity for:

1. Engineering education stakeholders to socialize with their colleagues.
2. Renewing the commitment of the RCI institutions in areas related to education engineering.

ICONEED will be organized in working groups dealing with three main issues:

1. Working Group 1: national policies to foster engineering education
2. Working Group 2: the productive sector and the global engineer
3. Working Group 3: the future of engineering education as a challenge to schools and faculties around the world

PARTICIPANTS

We would like to cordially invite member institutions of the Cartagena Network of Engineering and other engineering education stakeholders to participate in the 2007 ICONEED.

More information about the meeting will be available on the CNE website as it is available. www.cartagena-engineering-network.org. For further information, please contact:

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