

INTERNATIONAL CONGRESS ON ENVIRONMENTAL SCIENCES

COLOMBIA 2010-2011

SCIENCE IN DIALOGUE

Ten sessions on Environmental Sciences in Colombia, to contribute to the country's Sustainability Agenda.

June 2010

Duration: from June 2010 to November 2011

Main issues:

Preliminary structure (Jan 2010)

Translation web page //www.congresodecienciasambientales.com

GENERAL OBJECTIVES

- Strengthen scientific knowledge on issues of environmental sciences. Share advancements, innovations, ideas, theories, and models that environmental sciences have proposed for inclusion into academic and scientific debate and the community in general.
- Promote spaces for the exchange and construction of knowledge in environmental sciences between scientists, professionals, experts, and students of environmental fields based on diverse points of view and approaches. Promote investigation, analysis, and discussion of strategies for the preservation, conservation, restoration, and improvement of environmental resources in order to improve quality of life and construct sustainable models.
- Recognize and evaluate studies and investigations that are currently being developed in the country, compare them in an international context, and help promote the best Universities and Research Centers studies.
- Interact with various schools of education of environmental issues to develop and strengthen the epistemological and theoretical base of environmental sciences.
- Ensure an integrated view of related disciplines and be aware of environmental proposals among and within the disciplines.
- Strengthen the initiatives of Universities and Research Centers on environmental education and training, contributing to the teaching of science for an excellent advanced education
- Present innovative arguments and theories in environmental management, public policy, innovation and scientific policy in the country.
- Promote several interdisciplinary work platforms that result in dialogues on how scientific advancement and technological implementation improve and contribute to the progress of human life, human rights and equity in development.

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COLOMBIA 2010-2011

National Academy of Exact, Physical and Natural Sciences. Colombian Network of Environmental Training. University for Applied and Environmental Sciences UDCA. Center of Environmental Studies- Colegio Verde. The Doctorate of Environmental Sciences of the Universities of el Valle, University del Cauca, and Technological University of Pereira.

OPENING SESSION

Recognizing Environmental Complexity.

COLOMBIAS KNOWLEDGE AGENDA

La Academia Colombiana de Ciencias Exactas Físicas y Naturales

Universidad Nacional de Colombia

I Global Change, Local Change. Risks and Options

June 2010

The current status of the planet geophysical and ecological systems. Environmental thermodynamics. Description of the country's natural base. Environmental change and health. Reduction, adaptation, supply and use of water. Health and sustainable living, Droughts, floods, erosion, compacting, landslides, deforestation, pollution, seismic activities, forest fires. Environmental services. The environmental importance of the Amazon. Colombia in the Latin-American context. Global production models. Future environmental scenarios.

Coordinators

National Academy of Exact, Physical and Natural Sciences. Colombian Network of Environmental Training. University for Applied and Environmental Sciences UDCA. Center of Environmental Studies- Colegio Verde. The Doctorate of Environmental Sciences of the Universities of el Valle, University del Cauca, and Technological University of Pereira, Univesidad de Bogota Jorge Tadeo Lozano, IDEAM, Colciencias

II Environmental Governance.

August 2010

Scientific knowledge and policy design. Measuring the efficiency of environmental policies, human behavior, and environmental management. Interrelation between environmental policies and sector policies. Environmental policies and regional and local administration. Institutional and local networks. Investigations into legal regulations. International Agreements.

Coordinator

Universidad de los Andes-Facultad de Administración

III Biodiversity and Society

October 2010

Biodiversity and health. Biodiversity and Trade. Biological inventories. Biology of conservation. Protected areas. Extinction of species, *ex-situ* conservation, ecological restoration, ecosystemic studies. Collections. Cultural and biological diversity

Coordinators

Universidad Nacional de Colombia-Vicerrectoría de Investigaciones, Instituto Alexander von Humboldt

IV Environmental Impacts Energy and Clean Production

November 2010

Energy economy. Measurement and mitigation of the impacts of mining. Oil extraction. Transportation and road construction. Identification and management of natural risks. Wild breeding, forestry, fishing, agriculture and agricultural industry, husbandry, urbanization, commerce, urban services. Design of cleaner production processes. Management and recycling of solid waste. Management of dangerous waste. Technological innovation and adaptation. Evaluation of environmental strategy

Coordinators

El Doctorado en Ciencias Ambientales de la Universidad del Valle, Universidad del Cauca, Universidad Tecnológica de Pereira Universidad Industrial de Santander-UIS, La Cátedra Ambiental Interuniversitaria Universidad INCCA, Politécnico Gran Colombiano, Colegio Mayor de Cundinamarca, Universidad del Área Andina, Universidad del Bosque Centro de producción más limpia Universidad Bolivariana, Empresas Públicas de Medellín, Universidad EAFIT, Asociación Nacional de Industriales Sociedad Colombiana de Ingenieros

V. Territory, Culture and Environment

February 2011

Regional studies of the Andean, Amazon, Caribbean, Orinoquia and Pacific regions. Coastal, marine and submarine studies. Insular studies. Zoning. Local sustainability. Relationship between the city and the countryside. Native and afro-descendant territories and the environment. Environmental geopolitics. Identities, cultures and environmental conflicts

Coordinators

ASOCARS Asociación de Corporaciones Autónomas Regionales y de Desarrollo Sostenible, Institutos de investigación IDEAM, SINCHI, INVEVAR, IIPP, Instituto Humboldt

VI Sustainability of rural life

April 2011

Agricultural ecological physiology. Land ownership and use of the territory. Agroecology. Organic agriculture. Biotechnology, Silvopastoral systems. Protected and common interest areas. Agricultural fuels. Megaprojects and rural life. Rural settlements. Rural displacements. Sustainable rural models.

Coordinators

Centro de Estudios Ambientales- Colegio Verde -Universidad de Ciencias Aplicadas y Ambientales UDCA- Asociación de Corporaciones Autónomas y de Desarrollo Sostenible ASOCARS Sociedad Colombiana de Agricultores Instituto Internacional de Agricultura Tropical CINARA Universidad del Valle CIAT

VII Urban Environments, the Challenge of Sustainability

July 2011

Urban quality of life. Urban ecology. Displacements. Vernacular architecture. Public spaces. Interior environments. Green buildings. Sustainable urban transportation. Waste and recycling. Urban ecological parks, urban borders, urban agriculture. Wildlife in the cities. New settlements.

Coordinators

Maestría Gestión Urbana-Universidad Piloto de Colombia Institutos de Estudios Urbanos- Universidad Nacional de Colombia Red de Formación Ambiental Nodo Caribe Universidad Tecnológica de Bolívar Universidad de Cartagena Universidad del Norte Universidad Simón Bolívar Universidad del Magdalena

VIII Managing Coastal Territories.

August 2011

Agenda for the Colombian Caribbean,

Agenda for Colombias Pacific region

Sustainability of the coastal and marine systems. Marine ecosystems. Urban coastal settlements. Conservation and restoration of urban historic and cultural sites.. Cities in trancision and indigenous settlements. Geo and eco tourism.

Coordinators

Red de Formación Ambiental Nodo Caribe Universidad Tecnológica de Bolívar Universidad de Cartagena

Universidad del Norte Universidad Simón Bolívar Universidad del Magdalena INVEMAR

IX Environment and Development

October 2011

Environmental history. Sustainable development in Colombia. Possibility of alternate forms of development. Resources, equity, poverty. Environmental accounts. Environmental economy. Ecological economy. Sustainable consumption. Political ecology. Markets and environment. Growth and environment. Human Rights and Environment. Colombia in the Global Agenda. Scenarios of life in the future.

Coordinators

Universidad Nacional de Colombia-Instituto de Estudios Ambientales IDEA

IEPRI Universidad Nacional IDEADE Universidad Javeriana. La Red Colombiana de Formación Ambiental Sociedad Colombiana de Economistas Departamento Nacional de Planeación DNP

X Environmental Sciences. Epistemology, Environmental knowledge, Environmental education. Building Knowledge Societies.

November 2011

Definitions, methodologies. Environmental ethics, multi-discipline, inter-discipline, trans-discipline. Local knowledge. Investigation-action. Cognitive sciences and environment. Pedagogic methods. Case analysis. Programming. Educational needs of scientific researchers. University and environment. Education, communication and information. Creating and articulating scientific networks with social networks. Complex environmentalism. Power and limitations of science. Conversations about science and public opinion.

Coordinators

El Doctorado en Ciencias Ambientales

Universidad del Valle Universidad del Cauca Universidad Tecnológica de Pereira

Universidad de Ciencias Aplicadas y Ambientales UDCA La Red Colombiana de Formación Ambiental

La Cátedra Ambiental Interuniversitaria Universidad Distrital Universidad Externado de Colombia IDEA Universidad Nacional de Colombia Universidad Pedagógica de Colombia Servicio Nacional de Aprendizaje SENA Fondo para el Medio Ambiente y la Niñez La Cátedra Ambiental Interuniversitaria

CLOSING SESSION

Congress General Committee

Organizational Structure

President

La Academia Colombiana de Ciencias Exactas Físicas y Naturales.

La Red Colombiana de Formación Ambiental.

Executive Director

CCWL/ El Colegio Verde- La Universidad de Ciencias Aplicadas y Ambientales UDCA- together with scientific advisors from each of the Universities coordinating the Sessions.

Scientific Counsel

5 representatives from the Scientific Academies, 3 representatives from Universidad Nacional de Colombia

3 representatives from COLCIENCIAS, 3 representatives from COLCIENCIAS research groups.

3 representatives from research regional Institutes, 3 representatives from Professional Associations and Unions.

3 representatives from ASCUN (Regional Universities) 2 representatives from Science Foundations.

Ministerio de Ambiente Vivienda y Desarrollo Territorial - MAVDT

Departamento Nacional de Planeación

4 representatives from the Ministries.

4 representatives from the Private and Production sector

10 representatives of the Academic Coordinators of the Sessions.

International Relations Committee

Information and Communications Committee