

PARALLEL SESSIONS

Tuesday, November 28, 2017



Reventazón Hydropower Plant, Costa Rica

ROOM 1
TECHNICAL ASPECTS

TIME		ACTIVITY
DAM SAFETY RISK		
8:00 am	8:30 am	RCC arch dams, an affordable solution? Mr. Alexi DUQUE, Mr. Luis RESTREPO Integral Group - Colombia
8:30 am	9:00 am	Lessons learned from Dam rehabilitation Mr. Knut TJUGEN Sweco - Norway
9:00 am	9:30 am	Questions and answers (Moderator: Mr. Mario ALVARADO, ACOPE)
9:30 am	10:00 am	COFFEE BREAK
10:00 am	10:30 am	Infrastructure rehabilitation: 2009 Cinchona Earthquake - Costa Rica – Case of Cariblanco HPP. Mr. Erick CAMPOS Big Dam Committee of Costa Rica (CRICOLD)
10:30 am	10:50 am	Dams: Regulatory framework and institutions. Mr. Rodolfo DALMATI, President Dam Safety Regulatory Agency, ORSEP - Argentina
10:50 am	11:10 am	Public signage as part of dam failure emergency planning. Mrs. Hebe BARBER, Mr. Mateo BAUZA, Mr. Ezequiel TEPLITZKY Dam Safety Regulatory Agency, ORSEP - Argentina
11:10 am	11:30 am	Public reactions to emergency plans: experience from Argentina and Norway. Mrs. Hebe BARBER, Mr. Mateo BAUZA, Mr. Brian GLOVER, Mr. Ricardo PARAMOS. Dam Safety Regulatory Agency, ORSEP - Argentina
11:30 am	12:00 m	Questions and answers (Moderator: Mr. Mario ALVARADO, ACOPE)
12:00 pm	14:00 pm	LUNCH
INTEGRATED MANAGEMENT OF WATER RESOURCES		
14:00 pm	14:25 pm	Open-Source identification of hydroelectric potential in Latin America. Mr. Jorge AGUILAR APF, Guatemala
14:25 pm	14:50 pm	Optimum point in the flow rate duration curve. Mr. Lucio CHIQUITO Universidad Nacional, Colombia
14:50 pm	15:15 pm	Questions and answers (Moderator: Sergio BERMÚDEZ, ICE)
15:15 pm	15:45 pm	COFFEE BREAK
15:45 pm	16:10 pm	Characterization of the intensity and duration of droughts in the rivers that feed into the regulation reservoirs of the Colombian electrical sector. Mrs. Jesica GÓMEZ, Mr. Andrés OCHOA, Mr. Germán POVEDA National University, Colombia
16:10 pm	16:35 pm	Water Quality Model of the Reservoir and Flow Down PH Ituango. Sr. Pablo AGUDELO EPM- Elemental Group, Universidad de Cantabria.
16:35 pm	17:00 pm	Quantitative valuation of the socioeconomic uses of water. A contribution for determining environmental flows. Mr. Jose ARAYA, Mr. Miguel VÍQUEZ Instituto Costarricense de Electricidad, ICE.
17:00 pm	17:30 pm	Questions and answers (Moderator: Sergio BERMÚDEZ, ICE)
17:30 pm		DAY CLOSE

ROOM 2
FINANCIAL AND TECHNICAL ASPECTS

TIME		ACTIVITY
CONTROL AND MANAGEMENT OF SEDIMENTS		
8:00am	8:30 am	Sediments removal from the loading chamber of the Chacabuquito HPP. Mr. Juan HERNÁNDEZ, Mr. Alberto JIMÉNEZ COLBUN, Chile /SEDICON, Costa Rica
8:30 am	9:00 am	Integrating Environmental Mitigation Measures into Design of a New Hydropower Reservoir Mr. Brian GLOVER
9:00 am	9:40 am	Questions and answers (Moderator: Maria Ubierna- IHA)
9:40 am	10:10 am	COFFEE BREAK
10:10 am	10:40 am	Extending the life of reservoirs: sustainable management of sediments for run and the river and reservoir-type HPP. Mr. Pravin KARKI World Bank, Mr. Pratik, PRADHAN, Butwal Power Company, BPC
10:40 am	11:10 am	Minimizing environmental impacts during the dredging of reservoirs. Mr. Tom Jacobsen SEDICON, Norway
11:10 am	12:00 am	Questions and answers (Moderator: Alberto Jiménez, SEDICON)
12:00 m	14:00 pm	LUNCH
PROJECT MANAGEMENT		
14:00 pm	14:25 pm	Private financing of HPP projects. Mr. Bjørn NORDBY Optimum Finance, Norway
14:25 pm	14:50 pm	Environmental and social due diligence of power plant projects. Mr. Juan-Carlos PÁEZ Inter-American Development Bank (IIC), IADB Group
14:50 pm	15:15 pm	Health and safety due diligence and planning for power plant projects. Mrs. Leila CHENNOUFI Sustainability Frameworks, USA
15:15 pm	15:40 pm	Improved management as a key to success for investments, construction and operation of new energy facilities. Mr. Kjell HAAGENSEN Senior Energy Specialist. Norway
15:40 pm	16:00 pm	Questions and answers (Moderator: Jose FILHO, Environmental Specialist)
16:00 pm	16:20 pm	COFFEE BREAK
POWER MARKET AND ELECTRICITY INTEGRATION		
16:20 pm	16:40 pm	Energy Markets. The experience of Noordpool Mr. Haakon LEKNES Nord Pool Consulting
16:40 pm	17:05 pm	Analysis of electricity markets integration. The case of Central America. Mr. Mario ALVARADO Costa Rican Association of Energy Producers, ACOPE
17:05 pm	17:30 pm	Experience: Challenges and opportunities Mr. Byron TRIANA ACOLGEN
17:30 pm	17:45 pm	Questions and answers (Moderator: Juan PÁEZ – IADB)
17:30 pm		DAY CLOSE

ROOM 3
ENVIRONMENTAL ASPECTS

TIME		ACTIVITY
BIODIVERSITY		
8:00am	8:30 am	Comprehensive management of biodiversity in major hydroelectric projects. Mr. Carlos GUTIÉRREZ, Mr. Wilson RAMÍREZ EPM _ Instituto de Investigación de Recursos Biológicos Alexander von Humboldt. Colombia
8:30 am	9:00 am	Recent solutions for active fish-bypassing Mr. Bernhard PELIKAN BOKU, Austria
9:00 am	9:30 am	Pilot ecological restoration of dry forest: lessons learned. Mr. Carlos GUTIÉRREZ EPM - Instituto de Investigación de Recursos Biológicos Alexander von Humboldt. Colombia
9:30 am	10:00 am	Questions and answers (Moderator: Miguel MONTOYA – ISAGEN)
10:00 am	10:30 am	COFFEE BREAK
GOOD PRACTICES		
10:30 am	10:55 am	Evaluation of the Reventazón hydroelectric project Mr. Sergio BERMÚDEZ, Mr. Miguel VÍQUEZ Instituto Costarricense de Electricidad, ICE. Costa Rica
10:55 am	11:20 am	Multiple uses of the Ituango HPP reservoir Mr. Jose URREGO EPM, Colombia
11:20 am	11:45 am	Commitments of ISAGEN against the objectives of Sustainable development Mrs. Margarita GIRALDO. Director of Corporate Relations. ISAGEN, Colombia
11:45 am	12:10 m	Questions and answers (Moderator: Enrique LONDOÑO –EPM)
12:00 m	14:00 pm	LUNCH
CLIMATE CHANGE		
14:00 pm	14:30 pm	Climate change and hydropower potential in the world Mr. J.A. Lasantha SAMPATH ECOPOWER, Sri Lanka
14:30 pm	15:00 pm	Climate change and hydropower plants Mr. Pravin KARKI World Bank, USA
15:00 pm	15:30 pm	Evaluation of GHG emissions of the reservoirs using the G-res tool. Mrs. Maria UBIERNA International Hydropower Association, UK
15:30 PM	16:00 pm	Questions and answers (Moderator: Mrs. HEBE Barber, ORSEP)
16:00 pm	16:30 pm	COFFEE BREAK
16:30 pm	17:10 pm	Planning and utilization of rock caverns and tunnels in Norway. Tunneling and Underground Space Technology Mr. Einar BROCH Norwegian Institute of Technology
17:10 pm		DAY CLOSE

ROOM 4
SOCIAL ASPECTS

TIME		ACTIVITY
TERRITORIAL MANAGEMENT		
8:00am	8:30 am	Valuation of ecosystem services as a tool for the territorial management of the area of influence of the Ituango HPP. Mr. Wilmer MARÍN, Mrs. Vivian OCHOA, Mrs. Alejandra OSEJO EPM - Instituto de Investigación de Recursos Biológicos, Colombia
8:30 am	9:00 am	The Ituango HPP project. The challenges of integration for the sustainable territorial development in highly underdeveloped regions. Mr. Diego FRANCO EPM - HTM Group, Colombia
9:00 am	9:30 am	Transportation between urbanized areas from a mountain range to the other. The challenges of regional integration in the Ituango HPP. Mr. EPM - HTM Group, Colombia
9:30 am	10:00 am	Questions and answers (Moderator: Rogelio Araya, ICE)
10:00 am	10:30 am	COFFEE BREAK
CIVIL SOCIETY PARTICIPATION		
10:30 am	11:00 am	Achieving sustainability in hydropower projects. Mr. Stephen SPARKES Statkraft, Norway
11:00 am	11:30 am	Community based rural sustainability Mr. Carlos LOPERA PNUD Colombia; Mrs. Sandra RÍOS EPM; Mr. Rafael ARTURO. Community Leader. PNUD - EPM Colombia
11:30 am	12:00 m	Questions and answers (Moderator: Claudia ALVAREZ - ISAGEN)
12:00 m	14:00 pm	LUNCH
CONVERSATION WITH COMMUNITIES		
14:00 pm	14:30 pm	Desired development and energy projects, the perspective of Indigenous peoples Mr. Oscar HUEHUENTRO, Chile
14:30 pm	15:45 pm	A conversation between developers and Indigenous people Costa Rica: Mr. Cristian GONZÁLEZ, Boruca indigenous people; Mr. Miguel VÍQUEZ, ICE Chile: Mr. Oscar HUEHUENTRO Mapuche indigenous people; Mr. Carlos Ascencio, Statkraft Chile; Mr. Stephen SPARKES, Statkraft - Norway Colombia: Mr. Aristides SANTOS, Mr. Sigifredo FLOREZ. Urrao Community; Mrs. Ana María SANDOVAL, EPM (PH El Sireno – Study Phase) Colombia: Mr. Apolinar TORRES, Mr. Ubaldo TORRES, Leaders Community; Mr. Jaime ZAPATA, EPM. (PH Ituango Implementation phase) Colombia: Mrs. Julie GALLIANO Leader Community, Mr. Nelson BETANCUR, EPM. (PH Porce III – Operation Phase) Moderator: Mrs. Ana Margarita ARAUJO. Director CEMEDAR, Costa Rica
15:45 pm	16:00 pm	COFFEE BREAK
16:00 pm	17:00 pm	Working group Moderators: Mrs. Ana Margarita ARAUJO. Director CEMEDAR, Costa Rica Mrs. Claudia ALVAREZ – ISAGEN Mr. Diego FRANCO, EPM – HTM Group Mr. Enrique LONDOÑO EPM
17:00 pm	17:30 pm	Plenary Moderator:

		Mrs. Ana Margarita ARAUJO. Director CEMEDAR, Costa Rica
17:00 pm	17:30 pm	CLOSING REMARKS Mrs. Laura BULL Head of Studies and Regional Manager - LATIN AMERICA ICH