Wednesday, 26 October

08:15-08:45  Inauguration
Luis Alvarez de Icaza, Engineering Institute.
Jose Luis Fernandez Sayas, General Director, INEEL.
Humberto Marengo, President, INCA

08:45-09:15  Keynote Address: Dam Safety in the Americas
Michael F. Rogers, ICOLD Vice-President, USA

09:15-13:15  Dam Safety Governance
Moderator: Brian Becker, USA

09:15-09:35  ICOLD Committee on Dam Safety Overview

09:35-10:00  Canadian Regulatory Framework (Clare Raska, Canada)

10:00-10:25  Brazilian Regulatory Framework (Carlos Henrique Madeiros, Brazil)

10:25-10:50  Break in Exhibit Hall

10:50-11:15  USA Regulatory Framework (Brian Becker, USA)

11:15-11:40  Dam Safety Guidelines (Fabio Micheli, Italy)

11:40-12:05  Paraguay Regulatory Framework (Mariano Abud, Luis Vellacich, Paraguay)

12:05-12:30  Argentina Regulatory Framework (Fabian Restelli, Argentina)

12:30-13:00  Final Remarks from Moderator/ Presenters

13:00-14:00  Lunch (at Engineering Institute Building)

14:00-17:45  Risk-Informed Dam Safety
Moderator: George Kelley, USA

14:00-14:20  Introduction and Overview (George Kelley, USA)

14:20-14:45  The Past is Prolog - Historical Perspective of Dam Safety Risk Management Programs in the United States (Marty McCann, USA)

14:45-15:10  United States Perspective - Evolution of Risk Management (Doug Boyer, USA)
Symposium Program (Cont.)

15:10-15:35 Brazilian Perspective – Risk Management - Ricardo Aguiar Magalhães, Brazil
15:35-16:00 Canadian Perspective - Risk Management in the Provinces (Stephen Rigbey, Canada)
**16:00-16:25** Break in Exhibit Hall
16:25-16:50 Risk Management in The Dam Safety Industry (David Bowles, USA)
16:50-17:15 Dam Safety Program (Bulletin 158 of ICOLD), Alejandro Puyol, Argentina
17:15-17:40 Final Remarks from Moderator/Presenters.
18:00-19:00 Return to Radison Hotel
19:00-19:30 Return to UNAM with spouses.
19:30-21:30 Mexican Party dinner (at Engineering Institute Building).

Thursday, 27 October

08:00-08:25 Case Study: Monitoring and Behavior of Mazar Dam, in Ecuador (Francesco Amberg, Switzerland)
08:30-12:30 **Hydraulic and Hydrologic Design Criteria**
  **Moderator:** Brasil Machado, Brazil
  08:30-09:00 Hydraulics for Dams in ICOLD (Brasil Machado, Brazil)
  09:00-09:30 Flood Design Criteria for Large Dams (Alvaro Aldama, Mexico)
  09:30-10:00 Unconventional Underground Spillways: Two cases of Operating Plants Ing. Lourenço Babá, Brazil)
  10:00-10:30 Spillway Design (Blake Tullis, USA)
  **10:30-11:00** Break in Exhibit Hall
  11:00-11:30 Case Study: Mexico (Ramón Domínguez, Mexico)
  11:30-12:00 Case Study: Ecuador HEP Cardenillo (Géraud Soubrier/Dr. Roland Schmidt, France)
  12:00-12:30 Final Remarks from Moderator/Presenters
12:30-13:30 Lunch (At Engineering Institute Building)

13:30-17:20 **Seismic Design Criteria**
  **Moderator:** Juan Mayoral, Mexico
  13:30-13:50 Seismic Design Criteria in ICOLD (Juan Mayoral, Mexico)
  13:50-14:20 Case Studies in Seismic Assessments of Concrete Dams (Dan Curtis, Canada)
  14:20-14:50 Embankment Design (Camilo Marulanda, Colombia)
  14:50-15:20 Case Study: Dynamic Response of RCC Dams under Seismic Action (David Porras, INEEL, Mexico)
  15:20-15:50 Case Study: A New Methodology for Risk Analysis (Eduardo Pérez Rocha, Mexico)
  **15:50-16:20** Break in Exhibit Hall
  16:20-16:50 Case Study (To be determined)
  16:50-17:20 Final Remarks from Moderator/Presenters
Friday, 28 October

8:00-10:05  **Overtopping Case Studies**
**Moderator:** Humberto Marengo, President, INCA

8:00-8:25  Recognition Raul J. Marsal (*Luis Montañez, Jorge Castilla*, México)
8:25-8:50  Case Study, Descriptive Memory of Accident at the Fundão Mariana Dam, (*Ricardo Aguiar Magalhães*, Brazil)
9:15-9:40  Case Study, La Josefina Dam, Design Implications in the Dam Mazar, (*Julio Robles and Roque Proaño*, Ecuador)
9:40-10:05 Final Remarks from Moderator/Presenters

10:05-10:30  **Break**

10:30-13:00  **Earth and Rockfill Dam Safety and Practice**
**Moderator:** Manoel Sousa Freitas, Brazil

10:30-10:55  Reliability of Earth and Rockfill Dams (*Gabriel Auvinet*, Mexico)
10:55-11:20  Rockfill Dam Design Practice (*Camilo Marulanda*, Colombia)
11:20-11:45  Earthen Dam Design Practice (*Manoel Sousa Freitas*, Brazil)
11:45-12:10  Case Study: Stability Conditions of Necaxa Dams (*Nicolás Melchor García*, Mexico)

12:45-13:00  Final Remarks from Moderator/Presenters

13:00-13:30  **Closing of Symposium**