

**CIGRE SC A1 MEETING 2009
SYDNEY, AUSTRALIA**

COLLOQUIUM PROGRAM (DRAFT)

Wednesday 23 September 2009

| TIME | TOPIC | SPEAKER |
|-------------|--|---|
| 08:30 | Opening & welcome – Chairman SC A1 – Erli Figueiredo | |
| | Theme: New Developments in Machine Design | |
| 08:40 | Evolution of Large Capacity Indirectly Hydrogen-cooled Turbo-generators | Dr Hiromichi Ito (Toshiba – Japan) |
| 09:10 | Development of the deterioration assessment for the generator-motor rotor coil of the adjustable speed pumped storage system | Kazuyoshi Hohzan (Japan) |
| 09:40 | Characteristic features of stator winding bars of the new hydro-generators of power 160 MVA installed in Zakucac Hpp-Croatia | Josip Studir (Koncar – Croatia) |
| 10:10 | Morning tea | |
| 10:30 | Tutorial: Guide for minimizing the damage from stator winding grounds on turbogenerators | Oscar Martinez |
| | Theme: High Capacity Air-Cooled Generators | |
| 11:00 | Development of a highly efficient air-cooled turbine generator with CFD analysis | Kenichi Tohrisawa (Hitachi – Japan) |
| 11:30 | Introduction of new ventilation system large capacity air-cooled turbine generator | Kiyonori Koga (Mitsubishi – Japan) |
| 12:00 | Lunch | |
| 13:00 | Tutorial: Wind Power Generation: Generator technology vs grid integration | Prof. L Rouco |
| | Theme: Asset Management | |
| 13:30 | Advanced generator purging technologies for improved safety and reduced outage time | Uwe Eickelbeck (Siemens – Germany) |
| 14:00 | Condition-based maintenance of hydro generators using an innovative web diagnostic system | Dr Claude Hudon (Canada) |
| 14:30 | Repair, retrofit and replacement of turbo generators in fossil and nuclear power plants | Chong Wie Cho (Doosan – Korea) |
| 15:00 | Afternoon tea | |
| 15:20 | Tutorial: Survey of hydrogenerator failures | José Luís García Araco |
| 15:50 | Tumut 3- Life extension work and increasing dynamic performance rating | Kapila Nanayakkara (Snowy Hydro – Australia) |
| 16:20 | Diode wheel brushless exciter Mark III field repair | Marcio Siniscalchi (Electronuclear Brazil) |
| | Theme: Grid Connection Aspects and Issues | |
| 16:50 | Voltage ride through capability of synchronous generators: Grid code requirements and sensitivity with respect to generator parameters | Prof. L Rouco (Spain) |
| 17:20 | Finish | |