

| Hour  | Sunday  | Monday  |     |     |     |     |     | Tuesday  |     |     |     |     |     |  |
|-------|---|---|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|--|
|       |   | EL5   | EL3 | EL6 | EL2 | EL1 | EL4 | EL5  | EL3 | EL6 | EL2 | EL1 | EL4 | G100 (Hall)  |
| 09:00 |   | Registration<br>From 08:30→<br>(Hall/G100)  |     |     |     |     |     | <b>Panel Session II:</b><br>Smart Grids as Seen from the Power Electronics Field<br><br>11 – Distribution System Planning and Operation<br>12 – Wind Energy Integration<br>13 – Market Integration of Electrical Vehicles<br>14 – State Estimation<br>15 – Modelling Hydro Power |     |     |     |     |     | Poster Session I: Renewable Energy, Power Quality and Smart Grid |
| 10:30 |   |   |     |     |     |     |     |  |     |     |     |     |     |  |
| 11:00 |   | Opening Session<br>10:00-12:30 (F1)   |     |     |     |     |     | 16 – Evolutionary Algorithms in Trans. Plan.<br>17 – Ancillary Services<br>18 – Load Flow<br>19 – Load Forecasting<br>20 - Substations   |     |     |     |     |     |  |
| 12:30 |   | Lunch   |     |     |     |     |     | Lunch  |     |     |     |     |     |  |
| 14:00 |   | <b>Panel Session I:</b> Implementation Experience and Research Outlook on Applications of Synchronized Phasor Measurements<br><br>1 – Transmission Planning<br>2 – Wind Farm Grid Connection<br>3 – Harmonic Analysis and Non-active Power<br>4 – Energy Management of Electrical Vehicles<br>5 – System Protection Schemes |     |     |     |     |     | <b>Panel Session III:</b> The Future Electricity Grid of Europe<br><br>21 – Integration of Distributed Generation<br>22 – Wind Turbine Control<br>23 - HVDC<br>24 – Protection Systems I<br>25 – Energy Storage  |     |     |     |     |     |  |
| 15:30 |   |   |     |     |     |     |     |  |     |     |     |     |     | Coffee Break   |
| 16:00 | 18:00: Welcome Reception in the "Elektro" building at NTNU Gjøshaugen | 6 – Integration of Distributed Generation<br>7 – Wind Farm Layout and Operation<br>8 – Dynamic Modelling, Transient and Control<br>9 – Impact of Electrical Vehicles in Power<br>10 – Load Forecasting and Modelling  |     |     |     |     |     | 26 – Wind Energy Stability<br>27 – FACTS I<br>28 – Micro Grids I<br>29 – Protection Systems II<br>30 – System Reliability  |     |     |     |     |     |  |
| 17:30 |   | End of Sessions   |     |     |     |     |     | End  |     |     |     |     |     |  |

| 19:00 | Organ Concert in the Nidaros Cathedral  |  |  |   |  |                                 |   |                                  |                                       |                                       |                     |  |  |
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| Hour  | Wednesday                               |  |  |   |  |                                 |   | Thursday                         |                                       |                                       |                     |  |  |
|       | EL5                                     | EL3                                    | EL6  | EL2   | EL1  | EL4                             | Hall (G100)   | EL5                              | EL3                                   | EL6                                   | EL2                 |  |  |
| 09:00 | Panel Session IV: North Sea Grid        | 31 – Planning and Operation            | 32 – Photo Voltaics I                      | 33 - Transients                                     | 34 – Integration of Distributed Generation - Cases |                                 | Poster Session II: Power System Planning and Operation, FACTS and HVDC, Transients, Insulation, Protection and State Estimation | 50 – Modelling Imperfect Markets | 51 – Renewable Energy Systems Control | 52 – Transients and Voltage Stability |                     |  |  |
| 10:30 |   | Coffee Break                           |  |   |  |                                 |   |                                  | Coffee Break                          |                                       |                     |  |  |
| 11:00 |   | 35 – FACTS II                          | 35 – Wind Energy and Power System Planning | 37 – Photo Voltaics and Micro Grids                 | 38 – Protection Systems III                        | 39 – Electricity Markets Issues |   |                                  | 53 – Power Quality                    | 54 – High Voltage insulation          | 55 – Smart Grids II |  |  |
| 12:30 | Lunch                                   |  |  |   |  |                                 |   | Lunch                            |                                       |                                       |                     |  |  |
| 14:00 | 40 – Smart Grids I                      | 41 – Power Oscillation Damping Control | 42 – Demand Resources Grid Control         | 43 – Evolutionary Algorithms Power System Modelling | 44 – System Security                               |                                 |   |                                  |                                       |                                       |                     |  |  |
| 15:30 | Coffee Break                            |  |  |   |  |                                 |   |                                  |                                       |                                       |                     |  |  |
| 16:30 | 45 – Demand Resources in Market Context | 46 – Power Oscillation Monitoring      | 47 – State Estimation and PMUs             | 48 – Power Electronics Applications in Power        | 49 – Micro Grids II                                |                                 |   |                                  |                                       |                                       |                     |  |  |
| 17:30 | <i>End</i>                              |  |  |   |  |                                 |   |                                  |                                       |                                       |                     |  |  |
| 19:00 | Gala Dinner at Royal Garden Hotel       |  |  |   |  |                                 |   |                                  |                                       |                                       |                     |  |  |