



July 28th, 2009, Tuesday
Calgary, Canada

Minutes of the SC C6 Meeting

Attendants

Chairmen: N. Hatziargyriou (Greece), *Secretary:* C. Schwaegerl (Germany)

Regular Members: A. Baitch (Australia), F. Rudolfson (Norway)⁽¹⁾, B. Buchholz (Germany), T. Gaunt (South Africa), W. Kling (The Netherlands), D. Jacobson (Canada), A.N. Jensen (Denmark), A.L. Ricaldoni (Brazil), E. Navarro (Spain), T. Oyama (Japan)

Excused: D.M. Phelan (Ireland), C.D'Adamo (Italy), Z. Stanic (Croatia), R. Lopez (France), M. Fan (China)

Observer Members: -

Experts: C. Abbey (Canada), T. Funabashi (Japan), R. Iravani (Canada), G. Joos (Canada), M. Kleimaier (Germany), P. Lombardi (Germany), J.M. Oyarzabal (Spain), F. Pilo (Italy), R. Seethapathy (Canada), K. Strunz (Germany), Z. Styczynski (Germany), S. Verma (Japan), H. Weber (Germany), A. Zomers (The Netherlands), P. Schegner (Germany), S. Dukkaippan (India)

⁽¹⁾ on behalf of G. Kjolle (Norway)

Acronyms used in the text

AG: Advisory Group

DER: Distributed Energy Resource

DG: Dispersed Generation

DSI: Demand Side Integration

RES: Renewable Energy Sources

SC: Study Committee

TC: Technical Committee

TF: Task Force

WG: Working Group

JWG: Joint Working Group

Note on these minutes

The Meeting Agenda serves as reference for these minutes. A copy of the agenda is enclosed at the bottom of this file.

The SC meeting started at 8.00. SC Chairman Nikos Hatziargyriou welcomed all the attending members.

1. Report from the TC meeting in Christchurch (Alex Baitch)

Alex Baitch - who represented SC Chairman Nikos Hatziargyriou during the April TC meeting in Christchurch - reported about the last TC meeting. He also presented the Key Note Address at EPE Centre PQ Conference "Strategic Issues and Reliability Improvements for Embedded Generation and Microgrids".

He presented the SC C6 highlights such as:

- New chairmanship continues with 'next decade' C6 strategy that was agreed by SC in 2006.
- PES/CIGRÉ joint symposium on the "Integration of wide-scale renewable resources into the power delivery system" takes place in Calgary, Canada, on July 29-31, 2009.
- New working group and advisory group set up about rural electrification. 6 working groups are expected to finalize their work this year.



Main technical directions of SC C6 as presented in Christchurch are:

- To study the connection and the integration of DER, including small size generators, storage and relevant power electronic devices;
- To study the application of the DER concept as a part of the medium-long term evolution of distribution systems (Microgrids and Active Distribution Networks);
- To study actions and processes for demand management and customers involvement;
- To study the subject of rural electrification.

Key decisions relevant for SC C6 according to TC Action Plan cover some organisational tasks such as:

- To deliver more compact and frequent information on what is going on in Study Committees as SC annual reports;
- To post the “SC annual technical reports” on the SC websites;
- Each SC should prepare an executive summary of its Strategic Plan;
- To update WG membership lists every 6 months (after the SC meetings and 6 months later), including the nationality of members.
- To check that Advisory Groups are disbanded whenever a SC Chairman leaves the SC. AGs are not established structures and are meant to support the SC Chairman in administrative and technical matters.
- To motivate WGs to prepare tutorials and present their works in different events and to organise workshops rather than tutorials.
- To ask SC members to provide examples of benefits for their companies or organisations from the results of the SC WG works to identify benefits to contribute to CIGRE.

It was emphasised that a major activity is the TC Project 'Network of the Future' with SC C6 playing a major role. A TC Advisory group lead by old SC C6 chairman Angelo Invernizzi is working to provide a methodology and a road map on how CIGRE will answer the questions raised under the topic, in near and middle future, based on possible scenarios. Angelo Invernizzi prepared a Road Map document that should be commented by SC Chairmen by August 2009.

Based on the Road Map targeted areas of research for CIGRE will be identified that provide priority areas for SCs and WGs. They should give practical insight into how technical issues facing the Network of the Future can be addressed to provide output for decision makers.

Ten main technical issues to be investigated were identified at Geneva TC meeting in November 2008:

- Demand.
- Network architectures.
- Simulation, computation and optimisation.
- Market.
- Energy management and control systems.
- Use of ICT.
- Materials.
- Storage.
- Substations.
- Socio-Environmental.

Wil Kling raised concerns about the HV architectures assumed in the Road Map document which already proposed big DC systems as solutions. Alex Baitch explained that this serves only as an example of future developments.

After some questions were raised (by Alan Norsk Jensen and Britta Buchholz) about time schedule, further activities of the Network of the Future as well as on how SC C6 can contribute, Nikos Hatziargyriou explained



that the road map will be released after next TC meeting in Zürich in September 2009; after this SC C6 will decide how to adapt further SC C6 activities.

Due to its importance it was decided to have a closer look on this Road Map document after lunch break.

2. Status on existing WGs and TFs (by the relevant Convenor)

The SC Chairman Nikos Hatziargyriou invited the convenors of the active WGs, TFs, and AGs to present the status of the work.

TF C6.04.02 “Computational Tools and Techniques for Analysis, Design and Validation of Distributed Generation Systems”

TF C6.04.02 Convenor Kai Strunz, illustrated the status of the work of TF C6.04.02 (See file 2009_TF_C6.04.02_activityreport.pdf).

Kai Strunz demonstrated the final draft of the report by showing its main structure and the main contents, providing a clear overview about motivation, methodology, applications and typical benchmark networks identified.

The SC complimented the TF for the excellent work done and finally decided that:

- The final draft of the report shall be circulated to all members immediately after the meeting.
- Members will have up to the end of September for sending comments/feedback.
- The final version will be submitted as electronic brochure with a summary to be published on Electra by end of October.

WG C6.05 “Technical and Economic Impact of DG on Transmission and Generation Systems”

WG C6.05 Convenor Goran Strbac was not present at the meeting. As he also didn't excuse his absence in advance no information could be given about the progress. Nikos Hatziargyriou will contact Goran Strbac to achieve a finalisation of this WG soon.

WG C6.08 “Grid Integration of Wind Generation”

WG C6.08 Convenor Harald Weber illustrated the status of the work of WG C6.08 (See file 2009_WG_C6.08_activityreport.ppt).

A final version of the report is available; Harald Weber demonstrated its main structure and contents:

- Power Flow and congestion management in networks.
- Frequency control.
- Grid stability.
- Reactive power and voltage control.
- Influence on the conventional generation.
- Regulation and support strategies.

Suggestions for future work (that should be covered by JWG C1-C2-C6.18) were provided such as:

- Common data basis with respect to wind characteristics at regional and supra-national level (at least hourly resolution).
- Balancing capabilities at a supra-national level, taking into account also other renewable sources (PV, biomass, ...).
- Including bulk power imports (e.g. DESERTEC).
- Necessary transmission capacities (which technologies?).
- Embedded generation vs. large scale generation (renewable).
- Improving generation forecast (Wind and PV).
- Frequency control capability of wind power plants and economic aspects in comparison to other possibilities (e.g. GT).
- Need of storage capacities (WG C6.15), short term (dynamic aspects) and long term (reserve aspects).
- Possible contributions of load management (incl. E-Mobility), time scale (minutes, hours, days?).



- Limits of renewable integration (technical, commercial).

The aspects for future work are not yet agreed with the new JWG that already has to cover a wide range of topics within a limited time as pointed out by Martin Kleimaier. The new JWG was set as next topic in the Agenda as longer discussion started about its topics.

The SC complimented the WG C6.08 for the excellent work done and finally decided that:

- The final draft of the report shall be circulated to all members immediately after the meeting for a second approval after integration of comments/remarks received.
- Members will have up to the end of September for sending comments/feedback.
- The final version will be submitted as electronic brochure with a summary to be published on Electra by end of October.
- The activity will proceed in the new JWG among SC C1, C2 and C6 in which the Chairman and the Secretary of WG C6.08 (Harald Weber and Martin Kleimaier) are involved.

JWG C1-C2-C6.18 “Coping with limits for very high penetrations of renewable energy”

Wil Kling provides the liaison member between the JWG and SC C6.

The WG had a telephone conference on July 27th to discuss current status and future work. The WG is approximately 6 months behind its plan.

The JWG was initially chaired by Konstantin Staschus. Due to his other obligations in the European TSOs association Jon O Sullivan was selected as new convenor, assisted in this role by Frank Groome.

The WG is still waiting for the return of the majority of surveys according to a first questionnaire (date set for completion and return of survey - 14th August 2009) (Out of 57 persons that demonstrated their interest in participation 20 persons answered so far).

Due to a huge amount of topics work was split into parts as explained by Martin Kleimaier; each sub-group will deal with its regional problems as different problems arise in different counties due to integration of high shares of renewable energy.

Nikos Hatziargyriou proposed that our SC C6 can't take responsibility for all topics to be covered by the JWG that was initiated by SC C1. If it turns out by 2010 that important topics are not sophisticatedly covered SC C6 should initiate a new proposal.

Harald Weber reminded that it is not possible to limit scope of the JWG to distribution. It is necessary to consider interferences, also such as impacts on thermal generation by large wind parks.

Wil Kling expressed the need that the new WG should cooperate with the other active WGs working on issues such as storage, economics and control systems. The scope is too broad for one WG.

WG C6.09 “Demand Side Response”

The WG C6.09 Convenor Alex Baitch illustrated the status of the work of WG C6.09 (See file 2009_WG_C6.09_activityreport.ppt).

The work on the subject of “Demand Side Integration” (to include several more issues related to the demand side behaviour) is close to its end; a final meeting was held on July 27th

Alex Baitch presented structure and content of the final report.

- Investigate and describe various drivers for Demand Side Integration
- Describe role of DG in various countries to affect impact of on various drivers of DSI
- Investigate role and Importance of ICT
- Describe various forms of DSI and extent of impact
- Investigate available knowledge of demand elasticity of demand and extent to which price signals impact demand
- Investigate role and responsibilities of network owners and responsibilities/
- Investigate what changes need to be implemented



Special focus was to agree on consistency of terminology as it turned out that there are different terms used for same topics and same terms have different meanings, especially between Europe and U.S. This problem was confirmed by Britta Buchholz for C6.11.

The SC approved the work done so far and decided:

- The final draft of the report shall be circulated to all members by end of September.
- Members will have up to the end of November for sending comments/feedback.
- The final version will be submitted as electronic brochure with a summary to be published on Electra by February 2010.

WG C6.10 “Technical and Commercial standardisation of DER/Microgrids components”

The WG C6.10 Convenor Jose M. Oyarzabal illustrated the status of the work of WG C6.10 (See file 2009_WG_C6.10_activityreport.ppt).

A final version of the technical brochure is ready since June 2009.

The WG had a small membership; its main activity was mainly devoted to studying the Microgrid concept and the achievements of the EU funded projects on this issue.

The SC approved the work done so far and decided:

- The final draft of the report shall be circulated to all members immediately after the meeting for approval.
- Members will have up to the end of September for sending comments/feedback.
- The final version will be submitted as electronic brochure with a summary to be published on Electra by end of October.

WG C6.11 “Development and operation of active distribution networks”

On behalf of the WG C6.11 Convenor Christian D’Adamo, Chad Abbey illustrated the status of the work of WG C6.11 (See file 2009_WG_C6.11_activityreport.ppt).

Main achievements so far were:

- Preparation of a survey on active distribution networks with
 - Define Active distribution network concept and main features
 - Review actual status of implementation and barriers
 - Review actual operational rules for DG
- Definition of 5 sub-WGs and review of questionnaire responses.
- Published survey result in Electra and at CIRED.

An active network has the following definition: “Active networks are distribution networks with Distributed Energy Resources (generators and storage) and flexible loads that are subject to control.”

DERs and participating loads take some degree of responsibility for system support, which will depend on a suitable regulatory environment and connection agreements. The DSO may also have the possibility to manage electricity flows using a flexible network topology.”

The proposed schedule is to have a draft version by December 2009 and a final version by August 2010.

Nikos Hatziaargyriou reminded that due to its importance the definition should be agreed by the complete SC. This should be done in conjunction with a more general definition of SC C6 terms.

The SC approved the work done so far and decided:

- To proceed with the aim of completing the work by the 2010 SC meeting in Paris.

Joint WG C3.5 – C6.14

No information could be given about progress in this WG as liaison member Jarmo Partanen from Finland was not present at the meeting.



WG C6.15 “Electric Energy Storage Systems”

The WG C6.15 Convenor Zbigniew Styczynski illustrated the status of the work of WG C6.15 (See file 2009_WG_C6.15_activityreport.ppt).

The proposed schedule is present first results at the IEEE/CIGRE symposium in Calgary in July 2009 and to prepare the final report as well as a paper for Electra by the end of 2009.

The SC approved the work done so far and decided:

- The final draft of the report shall be circulated to all members by end of September.
- Members will have up to the end of November for sending comments/feedback.
- The final version will be submitted as electronic brochure with a summary to be published on Electra by February 2010.

WG C6.16 “Technologies for rural electrification”

The WG C6.16 Convenor Trevor Gaunt illustrated the status of the work of AG C6.16 (See file 2009_WG_C6.16_activityreport.ppt).

The WG had its first meeting in Calgary on 27th July 2009 attended by 11 members and observer (3 apologies) after the TOR were approved in January 2009. National experience was share, key issues identified and initial work packages allocated. A second meeting will take place in August 2010.

Additional members from developing countries, especially South America, are still needed.

Key issues to be covered by the WG are differences between developed / developing countries, load types and density, single and three phase systems, quality and reliability, loss reduction, integration of DG, especially in weak networks and materials and equipment.

The SC approved the work done so far and decided:

- To proceed with the aim of completing the work by the 2011/12.

AG C6.17 “Rural Electrification Advisory Group”

Aim of the new AG is to advice and support the chairman and members of the Study Committee on specific aspects of the electrification of rural and remote areas, including the coordination of relevant activities. The AG C6.17 Convenor Adriaan Zomers illustrated the status of the work of AG C6.17 (See file 2009_AG_C6.17_activityreport.ppt).

He reported about background, aim and challenges of rural electrification. So far, there has been publications of a colloquium report, a scoping report and a strategy paper on web site SC C6 (public domain). A strategy paper was adapted for publication in Electra. Adriaan Zomers received permission from Head Office to proceed with contacting “third parties”, i.e. institutions as World Bank (ESMAP), UN (UNDP), ARE, CIRED, WEC... or to contact relevant other organisations: NRECA, NGOs, GTZ, consultants, utilities, manufacturers, universities. Next step will also be to select/invite members for the Advisory Group. It could be appropriate to prepare and distribute a questionnaire. A keynote presentation will be given at the 2010 session.

AG C6.12 “Tutorials Advisory Group”

The AG C6.12 Convenor Trevor Gaunt presented content of a planned tutorial at Sixth CIGRE Southern Africa Regional Conference, August 2009 (See file 2009_AG_C6.12_tutorials_ctg1.ppt).

It is wished to publish results in tutorials or workshops as recently emphasised in TC meeting. Volunteers are still needed. The relevant convenors have been therefore invited to seriously consider this opportunity to present their outcomes.

Network of the future

After lunch break Alex Baitch gave a more detailed presentation of the TC activities on the 'Network of the Future'. SC C6 activities perfectly fit in the network, thus playing a major role in future CIGRE activities.



Wil Kling emphasised that the activities are governed by the TC and remembered that especially the topic Smart Grid plays an important role at IEEE activities with a lot of SG (Smart Grid) (super) sessions at the parallel IEEE/PES conference.

Britta Buchholz compared the TC activities with the European smart grids technology platform that aims to make developments visible and to integrate them in decision processes. Trevor Gaunt confirmed an overlap between EU and CIGRE activities, but pointed out the strength of CIGRE that considers this topic from an international perspective. Looking at international differences generates a deeper understanding about different drivers.

Martin Kleimaier proposed to rename the activities into 'system of the future'.

3. Further activities. Proposals for new WGs

Proposals for new WGs

Fabrizio Pilo (chairman of the “System development” (S5) session of CIRED) prepared the ToR for a WG on **Planning and optimization methods for active distribution systems** as already agreed after SC C6 meeting in Paris 2008. He recalled the importance of planning and optimisation methods and tools for distribution systems in the evolution towards the active and smart grid concepts. The WG will work jointly with the CIRED S5 “System development”, involving people from advisory group from Session 5. It is planned to start in January 2010, having a final report ready in June 2012 as a technical brochure on “Planning for active distribution systems” and a summary on ELECTRA. Wil Kling fully supported the proposals, and asked for involvement of other CIRED Sessions, especially S4 dealing with dispersed generation. He also initiated a discussion if operation should also be considered. As distribution networks are normally not operated, this aspect would be part of a new design. Fabrizio Pilo confirmed that operation needs to be considered during planning and it was agreed to keep the name planning. Nikos Hatziargyriou emphasised the need of this WG as follow up from C6.11. Trevor Gaunt indicated the need to have a different view from European smart grid initiative.

Nikos Hatziargyriou indicated that most WG finalise their work soon, thus it is necessary to start new initiatives. He encouraged the SC C6 members and experts to start new work. He underlined that distribution system will newly develop now and C6 can play an important role!

Martin Kleimaier pointed out the need to cooperate with other SCs, especially commercial aspects are of high interest. Nikos Hatziargyriou decided that SC C6 should make proposals on topics that seem to be of interest, while other SCs like to be involved in comprehensive aspects.

During SC C6 meeting in Paris 2008 it was agreed that the issue of **smart metering** deserves further activity with creation of a new WG on this subject. Marc McGranaghan volunteered to prepare the ToR during this last meeting in 2008, but didn't provide anything so far. Nikos Hatziargyriou will contact him/EPRI and ask for a possible contribution. Eduardo Navarro volunteered to prepare the ToR, but he still needs to check this within Iberdrola. Ailton Ricaldoni also mentioned experiences in Brazil with two meter manufacturers. Britta Buchholz reported from experiences gained in Germany with the e-energy project where systems don't become better if they only have smart meters. It is necessary to define the gaps for CIGRE what was agreed by Nikos Hatziargyriou and Fabrizio Pilo to have a look on the functionalities smart meters must have and not to focus on the systems that are currently available. Martin Kleimaier advised to have a look at commercial and functional aspects, as in principle everything is possible and it is only a question which solution is most economically beneficial. Subbiahthever Dukkaiappan noted to have a look at an intelligent interface.

Nikos Hatziargyriou proposed to set up a new WG on new network concepts such as **Microgrids/VPP/energy hub/active cells** what was accepted by the SC in principle. Britta Buchholz with support from Christine Schwaegerl and Nikos Hatziargyriou volunteered to prepare the ToR. She pointed out the opportunity to discuss this in September during the Microgrid Symposium in San Diego.

Nikos Hatziargyriou also proposed to set up a new WG on **electric vehicles** as they change the way how systems are operated. He volunteered to work on this proposal and to send out some ideas soon. Martin Kleimaier raised concerns that this electric vehicles cover only a special form of demand side integration, but Alex Baitch answered that system impact strongly depend on technology. Due to its important the SC approved to start working on this topic.



Alex Baitch will take the lead to set up a new AG on **terminology** as a missing world-wide consistency was discovered as main problem in many WGs. It is planned to have an effective team of 3-5 people. Ailton Ricaldoni mentioned the relationship with telecommunication, rules, and market and that SC C6 should be the coordinator to overcome international differences also in these areas. This proposal was considered as too ambitious.

The **strategy advisory group** will be reactivated latest by next meeting in Paris 2010 to check and define SC C6 strategy under the new chairmanship of Nikos Hatziargyriou. Adriaan Zomers expressed his interest in participation covering all topics of rural electrification. Alex Baitch and David Jacobson also agreed to become a member of this newly formed AG.

Tutorials

Trevor Gaunt identified many fields such as CIGRE, conferences ... that provide possibilities to held tutorials in the name of CIGRE (and not in name of manufacturer). Therefore, each WG should produce as outcome also some material, i.e. few slides, to be used in tutorial. Even better would be to provide workshops that are organised by SC C6. Trevor Gaunt checked who will be in the position to give a tutorial, agreeing with geographical disadvantages leading to high travel costs for some experts.

The open Copyright question according to CIGRE policy will be clarified by Christine Schwaegerl.

Nikos Hatziargyriou emphasised that tutorials/workshops aim to advertise CIGRE, they will not be professional tutorials although they should be sold. As a practical approach the slides developed by each WG should be available for those giving presentations.

Alex Baitch raised concerns that in this case presenter that was not part of the WG has no knowledge about the topic. Nikos Hatziargyriou indicated that SC C6 will not perform quality control. The material provided by WGs must be sound, everything else is in the responsibility of the presenter.

David Jacobsen promised to send out an invitation for members/experts to submit a tutorial proposal for a conference in Toronto on October 5 and 6 hosted by the Canadian CIGRE National Committee and Hydro One.

4. 2010 Paris General Session

39 papers have been submitted for C6 session in Paris 2010, most of them preferring the first Preferential Subject with

- PS1 - Planning and operation of networks incorporating Dispersed Energy Resources (DER) and Renewables (RES) - 23 papers
- PS2 - Demand Side Integration - 8 papers
- PS3 - New concepts and technologies for the electrification of rural and remote areas - 8 papers were submitted, 2 of them relevant for SC C6, with one paper 'Bibliography of Rural Electrification Technology' by Trevor Gaunt on behalf of C6.16 and one paper titled 'Small-scale rural electricity providers, Opportunities and challenges', on behalf of SC C6 Advisory Group on Rural Electrification.

Trevor Gaunt proposed to have SC C6 meeting not during CIGRE Paris (either during weekend or at different time and location) as there is always a clash in interests that prevents from attending other interesting CIGRE sessions. As all SC meetings normally take place during CIGRE Paris sessions the SC didn't agree on this proposal.

5. 2011 SC meeting

Two options were discussed for SC C6 meeting in 2011 that should take place in combination with a Symposium, either in Brazil or in Europe:

- For the time being it is decided to have one Symposium in Brazil, in spring 2011 (by C1, C2, and C4) with the preliminary title "Developments and Knowledge Integration to Improve Power System Performance of the Present and Future Networks". Suggested topics are:
 - Switching Transients on Power Systems - Impact on Performance of Power System and Measurements
 - Lightning and Insulation Coordination - Impact on Performance of Power System



- Equipment-System Interaction - Modelling and Study Methodology
- System Dynamics - Modelling and Tools
- System Planning for Power Quality and Reliability
- Long Distance Transmission System Issues
- Impact of Integration of Large Scale Renewable
- EMC and Power Quality Issues
- Impact of Equipment ageing on Power System Performance
- Shared Electric Installations Issues

The Symposium will be held in a small village called Porto de Galinhas, 60 km south from Recife beside a beautiful and clean beach (in Northeast of Brazil) probably from 11th to 15th April 2011.

- CIGRE TC prefers to set up a second one, in autumn, preferably in Europe; attractive topics should be the subject of the “future networks”, integrating new technologies, and DC links and dispersed generation. First proposals from Italy are available. The rule to alternate between Europe and the rest of the world for C6 meeting was not considered to be of importance as strategic decisions so far always enables to override this regulation.

After a lively discussion no agreement was achieved about 2011 SC meeting. Fabrizio Pilo offered to arrange the meeting in Sardinia if no other alternatives exist.

6. Liaison with other associations: CIREN, IEEE

The Special Reporter of session 5 of CIREN Fabrizio Pilo coordinates liaison with CIREN. SC C6 member Marc McGranaghan and D. Jacobson arrange cooperation with IEEE.

7. SC website: news from the Secretary and comments from members and WG/TF Convenors

There are currently around 200 visitors per month at SC C6 homepage. Nevertheless SC C6 website is so far not used by WGs and for exchange of information between members.

8. Any other business

Examples of CIGRE activities with a direct benefit to Companies

The objective to collect examples is to convince company management that investment in CIGRE WG activities results in real return/benefit for their companies, through direct application of the WG production in their daily activities. It is focused on the present or recently completed work of the SCs. Best examples are selected and used for an attractive leaflet to be sent to company managers. Each SC had to identify the main topics tackled by the SC over the past 3-4 years: either work completed with a publication issued, or work still underway.

The SC Chairman Nikos Hatzigryriou asked each of the members of the SC to report on the real applications of the SC work on these topics, of which they are aware, either in their company, or in another company. Two topics were identified:

- Grid codes for DG interconnection (TF 06.04.01) turned out to be very valuable for countries not being so experienced with dispersed generation (as they get in position to copy main requirements to ensure safe operation of the networks) as identified by Trevor Gaunt.
- Further value could be provided by networks identified in TF 06.04.02 as they enable to simulate impact of DG on transmission and distribution networks

Meeting Closing

The SC Chairman Nikos Hatzigryriou thanked all the attendants for their participation. At 15.10 the meeting was closed.



SC C6 Meeting in Calgary (Canada)

Salon B/C at the Delta Bow Valley

Tuesday, July 28, 2009

Chaired by Nikos Hatziargyriou

Agenda (July 28)

Morning session: 8.00 – 12.00, including Coffee Break 10:00 – 10:15

1. Report from the TC meeting in Christchurch (by Alex Baitch)

- TC AG Network of the future
- Borderlines between SCs
- Presentation of findings of WGs in different events, i.e. by tutorial

2. Status on existing WGs and TFs (by the relevant Convenor)

- TF C6.04.02 (Conv. K. Strunz) presentation of final report; discussion on publication
- WG C6.05 (Conv. G. Strbac) presentation of final report; discussion on publication
- WG C6.08 (Conv. H. Weber) presentation of final report; discussion on publication
- WG C6.09 (Conv. A. Baitch) presentation of final report; discussion on publication
- WG C6.10 (Conv. J. M. Oyarzabal) presentation of final report; discussion on publication
- WG C6.11 (Conv. C. D'Adamo) presentation of present status; discussion on expected progress
- JWG C3.05/C6.14 (Liaison member J. Partanen) presentation of present status; discussion on expected progress
- WG C6.15 (Conv. Z. A. Styczynski) presentation of present status; discussion on expected progress
- WG C6.16 (Conv. T. Gaunt) presentation of present status; discussion on expected progress
- JWG C1/C2/C6.18 (Conv. K. Staschus) presentation of present status; discussion on expected progress
- AG C6.12 (Conv. T. Gaunt) presentation of tutorial organisation plan
- AG C6.17 (Conv. A. Zomers) presentation of aim and objectives



Afternoon session: 13.00 – 15.30

3. Further activities. Proposals for new WGs

- Presentation of proposals by SC members and experts
- Decisions on actions to be undertaken
- **Review of Strategic Plan 2007-16, set up of a new AG on C6 Strategy**

4. 2010 Paris General Session

- Preliminary actions to be undertaken

5. 2011 SC meeting

- Invitations

6. Liaison with other associations: CIREN, IEEE

7. SC website: news from the Secretary and comments from members and WG/TF Convenors

8. Any other business

15:30 Departure for Dinner in Canmore

Projector and Windows PC will be available for Power Point presentations.

Notice:

SC C6 WG meetings will take place on Monday, July 27.

The convenors

- Alex Baitch (C6.09),
- Zbigniew Styczynski (C6.15),
- Trevor Gaunt (C6.16),
- Konstantin Staschus (C6.18)

will send out separate invitations.