The 98th



IEEE Region 8

Committee Meeting

Berlin, Germany 31 March-01 April 2012

Ad-Hoc Coordinator: Future Technical Directions Report

Coordinator: Vladimir Katić (katav@uns.ac.rs) (Serbia, IEEE Serbia and Montenegro Section)

Champion our links to "new" committees / initiatives established within the IEEE Technical Activities Board (TAB) - TAB Strategic Planning Committee → TAB New Technology Directions Committee, i.e (new name) IEEE Future Directions Committee (FDC), a standing committee of the TAB Strategic Planning Committee (http://www.ieee.org/about/volunteers/tab/tab_507.html)

Special attention to links with IEEE Smart Grid initiative, Cloud computing, IEEE's Committee on Earth Observations (ICEO), etc.

Special EU-IEEE or initiatives (EMEA-IEEE), for example: EuroGEOSS

Aim:

Develop synergy between "higher level" TAB committees and Region 8 organizational units, including sections. Seek out future technologies and related issues of potential interest to IEEE TAB and encourage the investigation of emerging technologies.

Scope:

The main topics regarding the FDC are:

- Electrical Energy and Energy Efficiency: Smart Grid*, Wind Power, Hydrogen Economy and Alternating Fuels, (Renewable Energy, Photo-Voltaic/Concentrating Solar Power, Energy Storage, Smart Home (Smart Building), Smart City)**
- Electric Transportation (new): Electric Vehicles*, Plug-In-Hybrid EV, Electric Ship
- Computing: Cloud Computing*, Networked Multimedia*
- Environment: Earth Observation, Electronic Recycling
- **Health Care:** Health Care and BioScience*, Distributed Diagnosis and Home Healthcare, Electronic Health Record
- Communications: Wireless Fidelity (WiFi), Terabit Networks, RFID, Remote Sensing
- Hardware: Next Generation Computer Architecture*, Portable Information Devices (PID),
 Display Technologies, Organic Electronics
- Digital Society: Biometrics, Digital Rights Management (DRM), Fingerprinting, (Computational Semiotics)**
- Life Sciences New Initiative (LSNI)

* Established Working Groups, ** Added by V.Katic

The major activities are within topics of the Smart Grid, Electric Vehicles, Cloud Computing, Networked Multimedia, Health Care and BioScience, and Next Generation Computer Architecture, where FDC Technology working groups have been established.

Other important issues (outside the FDC):

• IEEE's Committee on Earth Observations (ICEO): The Global Earth Observation System of Systems (GEOSS), EuroGEOSS, ...

Within the abovementioned areas, there is some overlap with activities with our new IEEE staff office.

The ad hoc coordinator will therefore keep Karine posted from time-to-time:

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Case of IEEE R8 TAB activities:

a) Chapters: The chapters of the main Societies that are dealing with the FDC topics are active in R8. Example: IEEE R8 Power Chapters Technical & Leadership Joint Workshop, Budapest, Bratislava, Zilina, 21-26 May 2010.

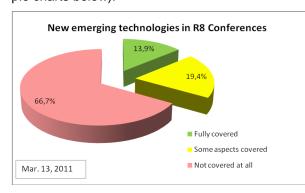
b) Conferences: The R8 conferences are organized regionally, including Energycon. Overview of the R8 conference topics regarding major FDC topics is represented in table below.

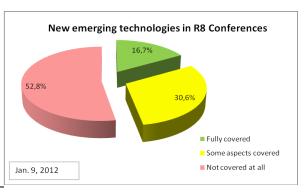
Date: Jan.9, 2012

Legend: ■ NO such topics, ■ Some aspects are covered, ■ Fully covered

/FDC Topic R8 Conference	Smart Grid	Electric Vehicles	Cloud Computing	Next Gen. Computer Arch.	Networked Multimedia	Healthcare & Bioscience
AFRICON 2011				Alcii.		Dioscience
13-15 Sep. 2011						
Livingston, ZAM						
MELECON 2012						
25-28 Mar. 2012						
Hammamet,						
TUN						
SIBIRCON 2012						
27-31 Aug. 2012						
Belokuriha, RUS						
HISTELCON						
2012						
5-7 Sep. 2012						
Pavia, ITA						
ENERGYCON						
2012						
9-12 Sep. 2012						
Florence, ITA						
EUROCON						
2013						
2-5 July 2013						
Zagreb, CRO						
AFRICON 2013	N/A	N/A	N/A	N/A	N/A	N/A
9-12 Sept. 2013						
Mauritius						

The new emerging technologies have improved their participation in comparison to previous report (March 13, 2011). Their share in topics of R8 conferences has risen to from 13.9 % to 16.7 % (see to pie charts below).





Still, it can be concluded that the new emerging technologies are not well covered in the R8 conferences. Such case can have effects on actuality and attractiveness of these conferences. Therefore, the ad hoc coordinator will work with the Conferences Coordination Subcommittee (CoCSC) towards promoting these new areas of work. The CoCSC will meet in Berlin (30 Mar. 2012), and the ad hoc coordinator will hold discussions with the SC (15h00-17h00).

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- c) Education: FDC topics are not present in the program of the EASC. The EASC will meet in Berlin (30 Mar. 2012), 13h00-15h00, and the ad hoc coordinator will try to partake towards including some FDC topics as part of continuing education (CE) offerings.
- d) Industry relations: The IRSC is active in some new fields, especially dealing with Energy Renewable energy. The IRSC meets on 30 Mar., 13h00-17h00, and while the meeting time overlaps with EASC and CoCSC, the adhoc coordinator will attend part of the IRSC meeting to try and develop exposure on FDC topics.
- e) Standards: There is opportunity to get involved, but no visible activities (other than in the Smart Grid area) in FDC topics so far.

Activity plan for 2012:

Period Jan-Dec. 2012

1. Deliverable #1: Report / Plan for 2012

(Submitted 15 Jan.2012)

2. Establish e-mail contacts with following WG and their chairs

(Jan.-Mar. 2012)

Working Group	Co-Chair(s)	Email
Green ICT	Alexis Kwasinski (Chair likely to change)	akwasins@mail.utexas.edu
Technology Time Machine	J Roberto Boisson de Marca	rdemarca@uol.com.br
Smart Grid	Wanda K Reder	wreder@sandc.com
Cloud Computing	Stephen L Diamond	s.diamond@computer.org
Electric Vehicles	Russell J Lefevre	r.lefevre@ieee.org

Other TA groups of interest	Co-Chair(s)	Email
IEEE Committee on Earth Observations (ICEO)	Tom Wiener CC: Jay Pearlman CC: Michael Lightner	t.wiener@ieee.org jay.pearlman@ieee.org Michael.Lightner@colorado.edu

Web address: http://www.ieee.org/about/technologies/emerging/emerging working groups.html

3. To set a list of Distinguished Lecturers in the FDT (DLiFuDiT)

(Feb. 2012)

Deliverable #2.1: List of Distinguished Lecturers (webinars, teleconferences)

Explore presentations/collaborations with Region 8 sections

Deliverable #2.2: Submit a short article 200-300 words to Region 8 news

28 Feb. 2012

(r8news@ieee.org)

4. Organize a WebEx conference

(mid-Mar. 2012)

Participants: FDC WG Chairs and TAB Committee Topic: Collaboration between FDC and R8 TAB

Possible presenter/staff: Bill Tonti (w.r.tonti@ieee.org)

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The IEEE FD committee is lead by Roberto DeMarca (rdemarca@uol.com.br), who is likely to be a speaker at the Chapters Coordination Subcommittee (ChCSC) meeting on 30 Mar. 2012.

Deliverable #3: Minutes/Summary from the WebEx conference (Apr. 2012)

5. Actions to include more FDC topics into the R8 Conferences:

Presentation of FDC activities at the CoCSC Meeting in Berlin (March 30, 2012)

Deliverable #4: ppt Presentation

6. Deliverable #5: 200-300 words article for R8 Newsletter about FDC in R8 (May 2012)



http://ttm.ieee.org

7. Establish connection with other IEEE Committees (GEOSS) Deliverable #6: Short report about achieved links	(June 2012) (mid July 2012)
8. Deliverable #7: 150-200 words article for R8 Newsletter- announcement of Webinar to be held in Sep. 2012	(June 2012)
9. Skype conference with TAB	(late Aug. 2012)
10. Webinar of one of the DLiFuDiT	(Sep. 2012)
11. Face-to-Face / TC meeting at the R8 Meeting	(Oct. 2012)
12. Lecture on a FDC topic via Skype at the R8 Meeting Deliverable #8: ppt Presentation	(Oct. 2012)
13. Preparation of plan for 2013	(Nov. 2012)
14. Deliverable #9: Activity plan for 2013	(Dec. 2012)