



Cooperative Radio Communications for Green Smart Environments

9th Management
Committee Meeting
Ferrara, Italy
5-7 February 2014



Prof. Narcis Cardona
Univ. Politecnica Valencia
iTEAM Research Institute



Day 1. Wed 5-Feb-2014

1. Opening formalities
2. Adoption of the Agenda
3. Approval of the Minutes of the last MCM
4. Status of the Action
5. Training Schools and Tutorials
6. Final Book, Editorial Board, Table of Contents
7. Liaisons rapporteurs to International Bodies and Projects
8. Technical Plenary:
 - Invited talk: “5G Non-Orthogonal Waveforms for Asynchronous Signalling. 5GNOW project overview”. Dr. Gerhard Wunder, Fraunhofer HHI Berlin, Germany
9. Special Session in Memoriam to Prof. Pertti Vainikainen
10. Presentation and discussion of technical documents // WGs sessions

Day 2. Thu 6-Feb-2014

10. (cont'd) Presentation and discussion of TDs // Working Groups

Day 3. Fri 7-Feb-2014

10. (cont'd) Presentation and discussion of TDs // Working Groups

PLENARY:

- 7. (cont'd) Liaison rapporteurs (+Newcom# MoU)*
- 11. Report from Grant Holder
- 12. Report on Newsletter
- 13. Reports from Group Chairs
- +(6. cont'd) Final Book, Table of Contents*
- 14. Dissemination activities, EuCNC
- 15. Future meetings and related activities (Workshop)
- 16. AOB
- 17. Close of Meeting

ATTENDANCE LISTS:

Please sign the
THREE attendance lists for the MCM
(one per day)
&
ONE attendance list for
EVERY WG/SWG/TWG you attend

Registration receipts are available at reception desk

3. Approval of the Minutes of the last MCM



Minutes are available under ...\\official documents and after MC approval also under ...\\meetings

The PDF file contains hyperlinks to WGs Minutes and other documents like reports from liaisons rapporteurs, etc.

--> Approval?

4. Status of the Action

Number of signatories countries: **28**

Number of COST country entities (institutes, etc.) currently participating: **126**

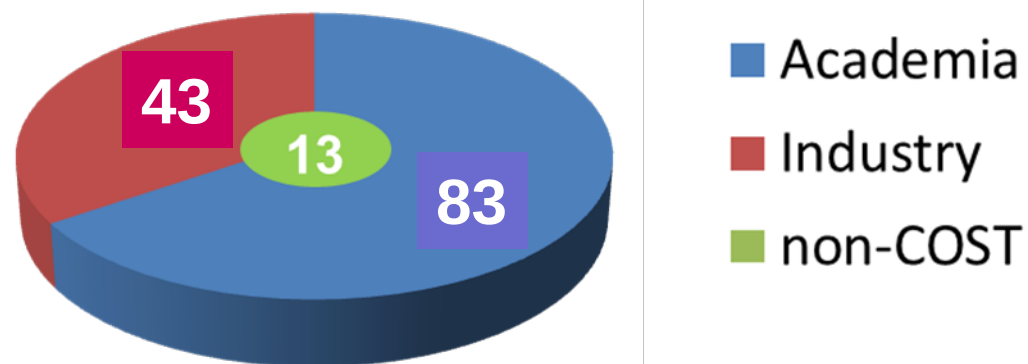
Number of COST Near Neighbour Countries: **1** (Montenegro)

Number of COST International Partner Countries: **6**

Number of non-COST entities (institutes, etc.) currently participating: **14**

Number of MC Members: **52 (+ Chair)**

Number of registered experts so far: **551**



4. Status of the Action

Current Non-COST Members (14 + 2):

The following are MC Observer requests being process (click on one to see the Detail page).

#	ID	Type	Action	Country	Institution	Participation
		v	v	v	v	v
1	610	IPCR	IC1004	 US	Motorola Mobility US	Approved on 2011-12-09
2	611	IPCR	IC1004	 US	COMSEARCH	Approved on 2011-12-09
3	627	IPCR	IC1004	 CN	Tongji University	Approved on 2011-12-09
4	653	IPCF	IC1004	 JP	National Institute of Information and Communications Technology	Approved on 2011-10-21
5	693	NNCR	IC1004	 ME	University of Montenegro	Approved on 2011-12-09
6	694	IPCF	IC1004	 JP	Tokyo Institute of Technology	Approved on 2011-10-21
7	710	IPCF	IC1004	 CO	Universidad Icesi	Approved on 2011-10-21
8	711	IPCR	IC1004	 AU	La Trobe University	Approved on 2011-12-09
9	770	IPCF	IC1004	 CA	The Communications Research Centre	Approved on 2011-10-21
10	807	IPCR	IC1004	 JP	Japan Advanced Institute of Science and Technology	Approved on 2012-06-08
11	869	IPCF	IC1004	 CN	Beijing University of Posts and Telecommunications, Wireless Technology Innovation Institute	Approved on 2012-03-28
12	900	IPCR	IC1004	 US	National Institute of Standards and Technology	Approved on 2012-12-14
13	901	NNCR	IC1004	 LB	American University of Beirut	Template Completion
14	1055	IPCR	IC1004	 CN	Academy of Broadcasting Planning	Approved on 2012-12-14
15	1218	IPCR	IC1004	 CN	Beijing Jiaotong University (BJTU)	Approved on 2013-09-16
16	1577	IPCF	IC1004	 JP	NTT DOCOMO, INC.	Template Completion

White Paper

- Final version published online, 19-Dec-2013
- Over 1200 downloads in 7 weeks



Home

Dec 19, 2013

COST IC1004 White Paper

The COST IC1004 White Paper on "Scientific Challenges towards 5G Mobile Communications" has been published.

You can download the pdf from [here](#).

Category: General

Posted by: admin

This White paper states the view of the researchers of the European COST Action IC1004 on the future of Mobile Communications technology beyond 4G.

The future of Radio Access Networks is analysed in this paper under the assumption of three facts: wireless terminals will evolve to get any device connected, access networks are to change their architectural basis in the coming years, and spectrum usage strategies should be revisited to ensure the efficient connectivity of the coming massive wireless traffic scenarios.

As a result of such analysis, the paper identifies a list of relevant scientific challenges for the coming years.

Invited talks:

COST-TERRA 8th MCM, 26-27
November 2013 @ OFCOM,
Biel, Switzerland

12th FP7 Concertation meeting,
Brussels, 22-23 October 2013



COST IC1004
Cooperative Radio
Communications for Green
and Smart Environments

Prof. Narcis Cardona
Chairman of COST IC1004
iTEAM Research Institute, Valencia
www.iteam.upv.es; www.ic1004.org

 COST is supported
by the EU Framework Programme



COST ICT Actions and
opportunities for cooperation
with FP7 RAS projects

Prof. Narcis Cardona
Chairman of COST IC1004
on behalf of IC-0902,0905,0906,1004,1102,1301

 COST is supported
by the EU Framework Programme

 ESF provides the COST Office
through a European Commission contract

Discussed with COST-TERRA Chair, November 2013 @ OFCOM, Biel, Switzerland:

- Joint Training and Dissemination activities by:
 - ✓ Training Schools, Tutorials, ...
 - ✓ successfully done with VISTA, LexNET, GreeNNets, METIS, NEWCOM#, iPLAN,
 - ✓ **Workshops, Special sessions, ...**
 - ✓ usual in some IEEE conferences, EuCAP, ...[EuCNC](#) 
- Synchronise technical interests through:
 - ✓ Liaison rapporteurs from/to our Actions
 - ✓ Done
 - ✓ Cross invited talks @ meetings
 - ✓ Done
 - **Establishing joint discussion groups**
 - still not formal so far
 - **Agree on common references**
 - scenarios, models, KPIs, testing, ...

4. Status of the Action

Shown at 12th FP7 Concertation meeting, Brussels, 22-23 October 2013:



- 18 STSMs completed during the first two years term
- +3 completed and 2 in progress already within the 3rd year term

- - OPEN CALL - -

Send your applications (eCOST, chair@ic1004.org in cc) at least 6 weeks in advance to the STSM starting date

- Results presented at Meetings
- ...and literature? Please REPORT (chairman@ic1004.org)

OPEN CALL

Procedure

applicant fulfill form at eCOST tool:

<https://e-services.cost.eu/stsm>

and sends it to Chairman and Host Institution

(**6 weeks** prior to the STSM start)

Evaluation

- Applications will be evaluated by Evaluation Panel including at least three among WGs Chairs.

Guidelines @ www.cost.eu

COST ICT Domain is providing **Conference Grants for Early Stage Researchers**.

- Several calls per year. Only one or two grants assigned per call for the whole Domain actions. Only **one candidacy** proposal per Action and call

Criteria for IC1004 pre-selection of candidates:

- Mention the COST IC1004 in the document (mandatory)
- Relevance of the conference in our area
- Relevance of the topic for the Action objectives
- CV of the applicant
- Activities of the Applicant's Institution related to COST IC1004

Chairman, committed by the MC, assessed by the Steering Committee evaluates the applications received and proposes a candidate

→Comments?

NEW CALL, CLOSING 20-FEB.

IC1004 Requires to have your applications by 11th FEB

COST DC Executive Group selects one Action to Grant, according to:

The process we follow for the evaluation of the ESR grants is as follows:

- 1. The applications are being checked first by the COST Office to ensure that all the necessary documents are in place.*
- 2. The COST Office sends the applications to the DC-ICT executive group for ranking. The Executive Group ranks the applications based on the following criteria:*
 - a. How can the event help the career of the applicant?*
 - b. What is the benefit for the current research of the ESR?*
 - c. What is the benefit of the COST Action?*
 - d. What are the networking reasons for going to the international conference?*

Please note that there is no specific weight for each of the above. The Executive Group ranks them and the highest average is considered.

Travel and Reimbursement issues

Reimbursements for this MCM: 39 (MC or official substitutes) entitled, over **130** participants

Reimbursement will be based on COST rules.

- In case you have already filled and downloaded your reimbursement form, please give it to the Secretary (Silvia) **during** the meeting
- In case you need to send it by POST, please do it no later than **February 28th, 2014**

- Training School(s):

First IC1004 Training School: “Vehicular Connectivity”

May 21-23, 2012, Vienna; 45 registered // 20 grants

Joint IC1004-WiserBAN Training School: “Wireless Body Area Networks”

June 4-6, 2012, Bologna; 50 registered

Third IC1004 Training School: “Propagation Measurement, Modelling, and OTA-Emulation”

November 12-14 2012, Ilmenau (Germany); 28 attended, granted

...

- Training School(s):

Fourth IC1004 Training School: “Tools for Cooperative Communications”

20-22 May 2013, Prague; 30 attendees, granted

Joint IC1004-NEWCOM# Training School: "Beyond 4G Networks in Cities: From Theory to Experimentation and Back"

25-28 November 2013, Castelldefels (Barcelona)

64 attendees (26 granted by IC1004)

- Very good feedback from students about the school contents and approach.
- The most inspiring presenter was from IC1004.

...

6th IC1004 Training School

“SAR & EM exposure in wireless networks” (preliminary)

Joint with LExNET FP7 project

Venue: Paris (Telecom Paristech)

Dates: 2 ½ days **16-18** APRIL-2014

Organiser: Alain Sibille (Telecom Paristech)

Attendees: 30 - 35 students

<http://www.ic1004.org/training-schools>

IC1004 support: Trainers travel costs, 25 grants for PhD and ESRs, organisational support (as approved in 3rd Year Term Budget)

6th IC1004 Training School

“SAR & EM exposure in wireless networks”

(jointly with LEXNET FP7 project)

- ❑ Venue: Paris, France
- ❑ Dates: 16-18 April 2014 (2 ½ days)
- ❑ Organisers: Alain Sibille, Joe Wiart
- ❑ Attendees: 30-50 researchers
- ❑ Confirmed lecturers: Serge Bories, Narcis Cardona, Luis Correia, Benoît Derat, Vincent Lau, Yves Lostanlen, Luc Martens, Joe Wiart

IC1004 support: Trainers travel costs, 20-25 grants for PhD and ESRs, organisational support (as approved in previous MCM)

5th IC1004 Training School

“SAR & EM exposure in wireless networks”

The exposure of populations to electromagnetic fields (EMF) is an issue of growing societal importance today, which motivates a number of political, regulatory, technical and scientific developments around the world. This is particularly true of wireless networks of all kinds, which penetrate our lives closer and closer including in-home and on-body areas. Various solutions may be sought in order to reduce the exposure of humans to EMF by these networks in the coming years, while maintaining the enormous benefits offered by these networks in everyone's life.

The training school will broadly cover the main issues of EMF exposure by wireless networks. It is targeted towards researchers and R&D engineers feeling concern in these aspects, coming from academia, Telecom operators, techno-providers or even governmental institutions having an interest in the exposure of populations to EMF. The instructors are high level experts deeply involved in R&D on EMF exposure.

The school is jointly organized by the FP7 european project LEXNET and the european COST Action IC1004.

5th IC1004 Training School

“SAR & EM exposure in wireless networks”

- ☐ Electromagnetic waves, wireless communications, risk perception
- ☐ Numerical dosimetry, mathematical/computer modeling, statistical aspects, exposure evaluation
- ☐ Tools for the measurement of fields and of transmitted/received power for exposure determination, dosimeter types and design, measurement protocols
- ☐ Wave propagation in relation with exposure. simulation tools and methods
- ☐ In-situ field measurements. methods, standards, radio protocols and schemes, extrapolation
- ☐ SAR measurements, standards, radio protocols and schemes, test configurations, fast SAR
- ☐ Design of multi-antennas terminals and relation with exposure
- ☐ Network technologies, impact on exposure, antenna issues, discontinuous transmission issues
- ☐ Network architectures, impact on the management of exposure, Hetnet, offloading, SON
- ☐ Low EMF networks vs. green networks: incompatibilities and synergies
- ☐ EMF aspects in 5G wireless networks
- ☐ Visit of a testing lab unit and of an EMF simulation facility

Short Course at EuCAP 2014

“ Propagation and channel modelling for beyond 4G cellular networks“
April 11, 2014 (last afternoon of EuCAP 2014), Den Haag, NL

Speakers: Thomas Kürner and Claude Oestges

Content (3h):

1. Introduction to beyond 4G communication networks
2. Challenges in radio network planning and optimization
3. Propagation models for small cells and femto cells
4. Multi-link channel sounding: techniques, challenges and experimental results
5. Reference and standardized 4G channel models

Registration: www.eucap2014.org/conference/short-courses

Attendees: 30-35 students; IC1004 support: 3.5 k€ (15x200€ grants)

- ✓ **Editor: Chair**
- ✓ **Steering Committee launched the process**

5-7 Feb-2014	Ferrara	MC	Selection of topics Approval of Editorial Board , Table of Contents and Chapter Editors
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Proposal of Editorial Board: Steering Committee (7) + 1 person per TWG (5)

Please discuss within the TWGs about your representative to the EB

Chapter Editors: TBD

ToC, Chapters: TBD

Book Structure

First approach (to be discussed in your WGs):

- Focused on “environments”
- About 350 pages

Chapters: (not necessary in this order)

- Intro- Scenarios, environments, evolution of Mobile Comms, ...
- 1. Urban Radio Access Networks
- 2. Indoor Wireless Communications Systems
- 3. Vehicular Communications Environments
- 4. Wireless Body Area Communications
- 5. Radio Communications (horizontal concepts, technologies,...)
- 6. Innovations in Antenna Systems for Communications
- 7. Over the Air Testing of MIMO systems
- 8. Radio Channel Characterisation, modelling
- 9. Evolved Physical Layer , cooperative,...
- 10. RAN Architectures and Spectrum Management
- 11. Future trends and Recommendations

- There are **84! TDs** to be presented at this MCM.
 - 85 received by the deadline
 - 1 Withdrawn: TD(14)09018
- 1 Special Session
- 1 Technical Plenary
- 7 slots in 3 tracks for WGs sessions

Special Session

in Memoriam of Prof. Pertti Vainikainen

Chairs: Narcis Cardona, Katsu Haneda

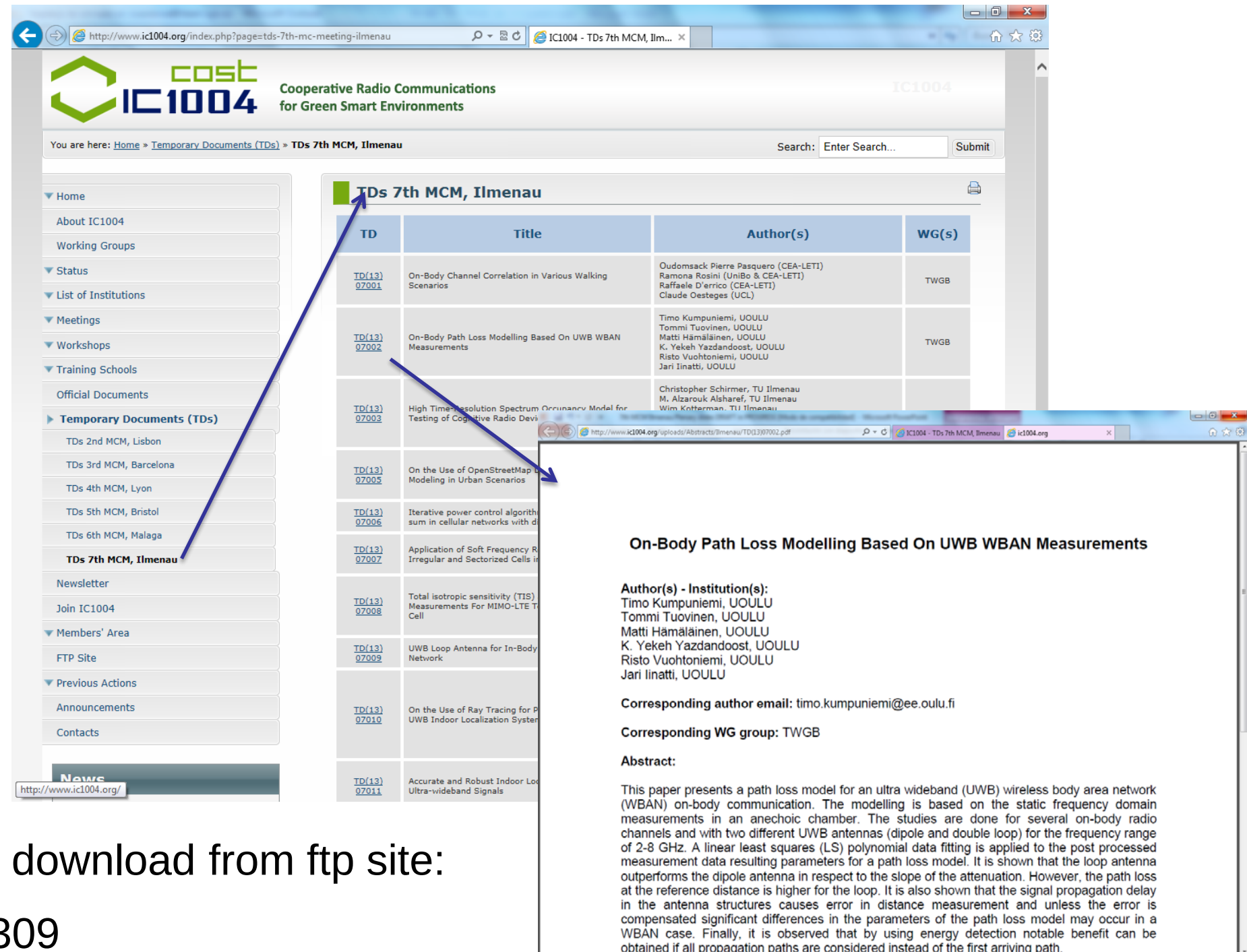


Selected topics:

Corresponding to docs TD(14)....14, 62, 84, 85

- “A study on the relation between parameter based clusters and physical clusters”, Meifang Zhu, Lund, Katsuyuki Haneda, Aalto, Veli-Matti Kolmonen, Aalto, Fredrik Tufvesson, Lund
- “On the Reliability of Multipath Cluster Estimation in Realistic Channel Data Sets” Christian Schneider, Maysam Ibraheam, Stephan Häfner, Martin Käske, Matthias Hein and Reiner S. Thomä
- “UCL-Aalto Experimental channel characterization for vehicle-to-vehicle scenarios” Claude Oestges, UCL, Olivier Renaudin, UCL
- “ Studying the Multi-Dispersive Characteristics of the Radio Channel - a Story of Collaboration and Friendship with Pertti Vainikainen “ ; Vittorio Degli-Esposti, CNIT/BO, Franco Fuschini, CNIT/BO, Doriana Guiducci, (FUB), Enrico M. Vitucci, CNIT/BO
- Indoor Short-Range Radio Propagation Measurements at 60 and 70 GHz; Katsuyuki Haneda, AALTO, Jan Järveläinen, AALTO, Aki Karttunen, AALTO, Mikko Kyrö, AALTO, Jyri Putkonen, NSN

TD abstracts are open available at www.ic1004.org and full TDs under “Members’ Area”



TDs 7th MCM, Ilmenau

TD	Title	Author(s)	WG(s)
TD(13) 07001	On-Body Channel Correlation in Various Walking Scenarios	Oudomsack Pierre Pasquero (CEA-LETI) Ramona Rosini (UniBo & CEA-LETI) Raffaele D'errico (CEA-LETI) Claude Oesteges (UCL)	TWGB
TD(13) 07002	On-Body Path Loss Modelling Based On UWB WBAN Measurements	Timo Kumpuniemi, UOULU Tommi Tuovinen, UOULU Matti Hämäläinen, UOULU K. Yekeh Yazdandoost, UOULU Risto Vuohtoniemi, UOULU Jari Iinatti, UOULU	TWGB
TD(13) 07003	High Time-Resolution Spectrum Occupancy Model for Testing of Cognitive Radio Devi	Christopher Schirmer, TU Ilmenau M. Alzarouk Alsharif, TU Ilmenau Wim Kotterman, TU Ilmenau	
TD(13) 07005	On the Use of OpenStreetMap Modeling in Urban Scenarios		
TD(13) 07006	Iterative power control algorithm in cellular networks with d		
TD(13) 07007	Application of Soft Frequency R Irregular and Sectorized Cells i		
TD(13) 07008	Total isotropic sensitivity (TIS) Measurements For MIMO-LTE T Cell		
TD(13) 07009	UWB Loop Antenna for In-Body Network		
TD(13) 07010	On the Use of Ray Tracing for P UWB Indoor Localization System		
TD(13) 07011	Accurate and Robust Indoor Loc Ultra-wideband Signals		

On-Body Path Loss Modelling Based On UWB WBAN Measurements

Author(s) - Institution(s):
Timo Kumpuniemi, UOULU
Tommi Tuovinen, UOULU
Matti Hämäläinen, UOULU
K. Yekeh Yazdandoost, UOULU
Risto Vuohtoniemi, UOULU
Jari Iinatti, UOULU

Corresponding author email: timo.kumpuniemi@ee.oulu.fi

Corresponding WG group: TWGB

Abstract:
This paper presents a path loss model for an ultra wideband (UWB) wireless body area network (WBAN) on-body communication. The modelling is based on the static frequency domain measurements in an anechoic chamber. The studies are done for several on-body radio channels and with two different UWB antennas (dipole and double loop) for the frequency range of 2-8 GHz. A linear least squares (LS) polynomial data fitting is applied to the post processed measurement data resulting parameters for a path loss model. It is shown that the loop antenna outperforms the dipole antenna in respect to the slope of the attenuation. However, the path loss at the reference distance is higher for the loop. It is also shown that the signal propagation delay in the antenna structures causes error in distance measurement and unless the error is compensated significant differences in the parameters of the path loss model may occur in a WBAN case. Finally, it is observed that by using energy detection notable benefit can be obtained if all propagation paths are considered instead of the first arriving path.

Full TDs are available for download from ftp site:

User: ic1004, code: rv02309

TDs allocation to WGs

WG 1	6,8,17,23,28,32,33 ,34,45, 58,59,64,66,69,73,75	(16)
WG 2	2, 9, 10, 24, 41	(5)
WG 3	5,7,22,27,40,42,44,46,65,70,72,79,80,81	(14)
1+2+3	3, 14, 55, 62, 84, 85	(6)
SWG 1.1	1,43,48,50,60,61,67	(7)
SWG 1.2	82	(1)
SWG 2.1	25, 30, 38,68, 77, 78	(5)
TWG-B	12,16,20,31,37,47,51,52	(8)
TWG-V	4, 15, 21, 29, 49, 71, 74	(7)
TWG-U	36, 39, 56, 57	(4)
TWG-i	11, 19, 53, 54, 63, 76, 83	(7)
TWG-O	13, 26, 35	(3)
withdrawn	18	(1)

WGs sessions Schedule

COST IC1004 - 9th Management Committee and Technical Meeting Schedule

Wednesday 5-Feb-2014

Wed 5th	TD#	Room
9:00	OPENING PLENARY	A1
10:30	+ COST 1301	

Coffee

11:00	Technical Plenary 5GNOW Invited talk TDs 3, 55	A1
12:30		

Lunch

13:45	Special Session: Pertti Vainikainen In Memoriam	A1
15:45	14, 62, 84, 85	

Coffee

16:15	WG1	8, 17, 23,75, 58	G1
	WG2	2, 10, 24, 41	G4
	WG3	5,44,65,81,7	G6
18:00			

Thursday 6-Feb-2014

	Group	TD#	Room
9:00	WG1	28, 59,64, 69	G1
	SWG2.1	30, 38, 25, 68	G4
	WG3	22, 42,70,72	G6
10:30			

Coffee

11:00	WG1	34, 66, 73, 6	G1
	2.1 (+2)	77, 78, disc	G4
	WG3	27,79,80,46	G6
12:30			

Lunch

13:45	SWG1.2	82, disc	G1
	vehicular	4,15,21,29,49	G4
	body	12,16,20,52, disc	G6
15:45			

Coffee

16:15	WG1	32, 33, 45, disc	G1
	vehicular	71,74, disc	G4
	WG3 +2	40, 9 +disc	G6
18:00	OTA	13,26,35, disc	G10

Friday 7-Feb-2014

			Room
	Group	TD#	
9:00	SWG1.1	1,43,50,60,48	G1
			G4
	Indoor	53,54,11,19,63	G6
10:30	urban	36,39,56,57	G10

Coffee

11:00	SWG1.1	61,67, disc	G1
	body	31,47,37,51	G4
	indoor	76,83, disc	G6
12:30	urban	disc	G10

Lunch

13:45			A1
15:00			

Bus transfer to Airport

TOPICS TO DISCUSS during WG sessions

- **Book**
 - Editorial Board (TWGs)
 - List of Topics
- Proposals for joint activities to projects, other actions.
- Dissemination activities, conferences, tutorials, ...
...any new offer?: report to Narcis during the meeting
- ...

- Buon Kiong Lau , COST VISTA
- Sana Salous, Vice-Chair of URSI C
- Istvan Szini, CTIA
(Ron Borsato. CTIA OTA leadership team)
- Moray Rumney, 3GPP RAN4
- Fernando Velez, COST IC905, COST TERRA
- Haibin Zhang, GreenTouch (not at this meeting)

- NEW: Luis Correia; COST BM1309, “European network for innovative uses of EMFs in biomedical applications (EMF-MED)”

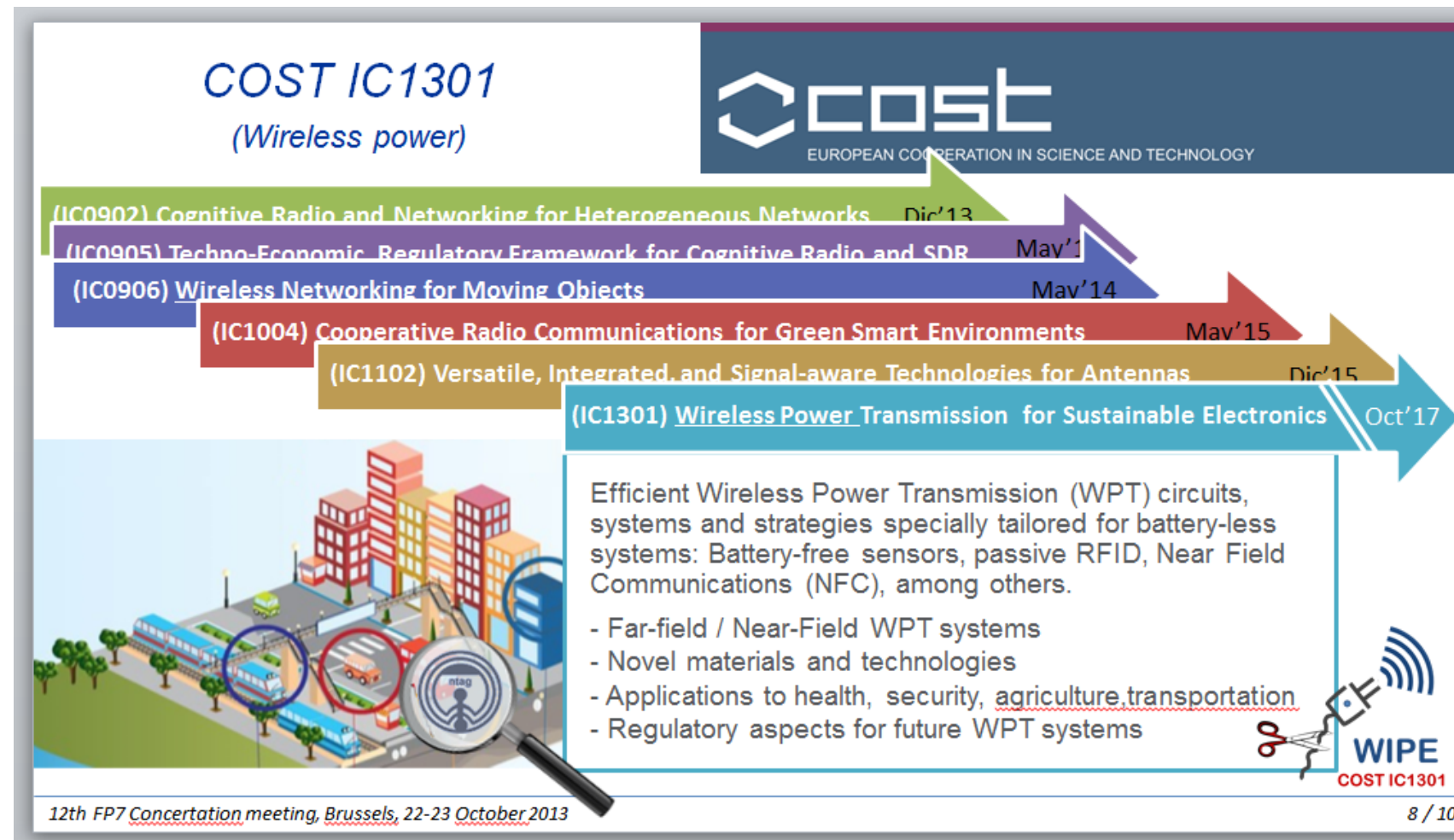
7. Liaisons to other Bodies/Projects

- Alister Burr, FP7 Diwine
- Alain Sibille, FP7 Lexnet
- Tommi Jämsä, Narcis Cardona, FP7 METIS
- Roberto Verdone, Newcom#, EurACON

Rapporteurs are kindly asked to report at plenaries and to send a short written report.

Please send your reports to Secretary by **February 28th**

Prof. Alessandra Costanzo
 New COST Action IC1301
 Wireless Power Transmission for Suitable Electronics



...MC Plenary continues on Friday at 13:30

Attendance lists from WGs/SWGs/SIGs:

Have you signed the
GENERAL ATTENDANCE LIST?

No signature, no reimbursement...

Plenary session
Resume at
13:35

Attendance lists from WGs/SWGs/SIGs:
Did you sign the **general attendance list** for
the three days?
No signature, no reimbursement...

PLENARY:

7. (*cont'd*) Liaison rapporteurs

11. Report from Grant Holder

12. Report on Newsletter

13. Reports from Group Chairs

+ (**6.** *cont'd*) Final Book, Table of Contents

14. Dissemination activities

15. Future meetings and related activities (Workshop)

16. AOB

17. Close of Meeting

- Alister Burr, FP7 Diwine
- Alain Sibille, FP7 Lexnet
- Tommi Jämsä, Narcis Cardona, FP7 METIS
- Roberto Verdone, Newcom#, → Approve MoU IC1004/NEWCOM#
- Roberto, EurACON

Rapporteurs are kindly asked to report at plenaries and to send a short written report.

Please send your reports to Secretary by **February 28th**

- Buon Kiong Lau , COST VISTA
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(Ron Borsato. CTIA OTA leadership team)
- Moray Rumney, 3GPP RAN4
- Fernando Velez, COST IC905, COST TERRA
- Haibin Zhang, GreenTouch (not at this meeting)

- NEW: Luis Correia; COST BM1309, “European network for innovative uses of EMFs in biomedical applications (EMF-MED)”

Third Year term (June 1, 2013 - May 31, 2014)

Grant: 177.900 EUR

Type of expenditure	Approved	Agreed at Ilmenau
1. Meetings and WS	102.800	106.300
2. STSMs	13.400	13.400
3. Training schools	36.000	32.500
4. Dissemination/ Publicat.s	1.500	1.500
5. Others	1.000	1.000
Secretariat - 15% of sum(1:6)	23.200	23.200
TOTAL	177.900 €	177.900 €

23 October 2013 → First installment received (65%)

13 January 2014 → European Commission Financial Report approved

By the end of February → Second installment request (35%)

Third Year term (June 1, 2013 - May 31, 2014)

Type of expenditure	Budget	Already spent	To be spent	Budget Left
1. Meetings	€ 103.300,00	€ 28.849,32		74.450,68 €
2. Workshop Supports	3.000 €	3.000 €		0,00 €
3. STSMs	€ 13.400,00	3.4000 €	1500 + 2.500 €	6.000 €
4. Training schools	€ 32.500,00	12.674,76 €	3.499,49 €	16.325,75 €
5. Dissemination/ Publicat.s	€ 1.500,00			1.500 €
6. Others (bank fees)	€ 1.000,00			1.000 €
Secretariat - 15% of sum(1:6)	€ 23.200,00	14.314,85 €		8.885,15 €
TOTAL	€ 177.900,00	62.238,93 €	7.499,49 €	108.161,58 €

Newsletter

Editor: Prof. Alain Sibille

Welcome to distribute the link among your professional contacts:

<http://www.ic1004.org/index.php?page=newsletter>

Statistics so far (total number of downloads):

NL1: 135

NL2: 79

NL3: 182

NL4: 256

NL5: 332

NL6: 253

- Disciplinary Working Groups:
 - WG1: Claude Oestges, U.C.L. (BE)
 - SWG1.1: Buon Kiong Lau (SE)
 - SWG1.2: Tommi Jämsä
 - WG2: Alister Burr, U.York (UK)
 - SWG2.1: Jan Sykora (CZ)
 - WG3: Silvia Ruiz, U.P.C. (ES)
- Topical Working Groups Coordinator:
 - TWGC: Alain Sibille, Telecom ParisTech (FR)

- Vehicular Environment, TWG-V
Levent Ekiz (DE), Erik Strom (SE)
- Body Environment, TWG-B
Raffaele D'Errico (FR), Kamyaz Yazdandoost (JP)
- Urban Environment, TWG-U
Sana Salous (UK), Denis Rose (DE)
- Indoor Environment, TWG-I
Pawel Kulakowski (PL), Klaus Vitrisal (AT)
- MIMO-OTA Testing, TGW-O
Gert Pedersen (DK), Wim Kotterman (DE)

- ✓ **Editor: Chair**
- ✓ **Steering Committee launched the process**

5-7 Feb-2014	Ferrara	MC	Selection of topics Approval of Editorial Board , Table of Contents and Chapter Editors
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Proposal of Editorial Board: Steering Committee (7) + 1 person per TWG **and SWG** (8)

APPROVAL?

Chapter Editors: TBD afterwards

ToC, Chapters:

Book Structure

- Focused on “environments” → general agreement on convenience of this approach

Agreed by MC?

Book Organisation

(not necessary in this order)

Intro- Scenarios, environments, evolution of Mobile Comms, ...

Part 1. Urban Radio Access Networks

Part 2. Indoor Wireless Communications Systems

Part 3. Vehicular Communications Environments

Part 4. Wireless Body Area Communications

Ch. x+1. Innovations in Antenna Systems for Communications

Ch. x+2. Over the Air Testing of MIMO systems

Ch. x+3. Radio Channel Characterisation, modelling

Ch. x+4. Evolved Physical Layer

Ch. x+5. PHY cooperation techniques (Cooperative communications/networking)

Ch. x+6 RAN Architectures and Network Efficiency

Ch. x+7. Future trends and Recommendations

MC to Commit the Editorial Board to make final list of Chapters

CALENDAR (to next meeting)

12 th Feb, Editor →EB	launch process
19 th Feb	Editorial Board meeting (online)
_9 th March, Editorial Board,	Complete List of Chapters/ Titles Appoint Chapter Editors
_30 th Apr, Chapter Editors,	Map TDs to Chapters Define Chapter Sections
26 th May (Aalborg), MCM,	Approve ToC, Section Editors Define Edition Guidelines



Bologna, Italy, June 23/26, 2014

EuCNC 2014

IC1004 Special Session on “Propagation Models and Channels for Future Mobile Communications»
(Claude, Fredrik?)

+ Joint Special Session IC1004/TERRA on
«Spectrum Management»

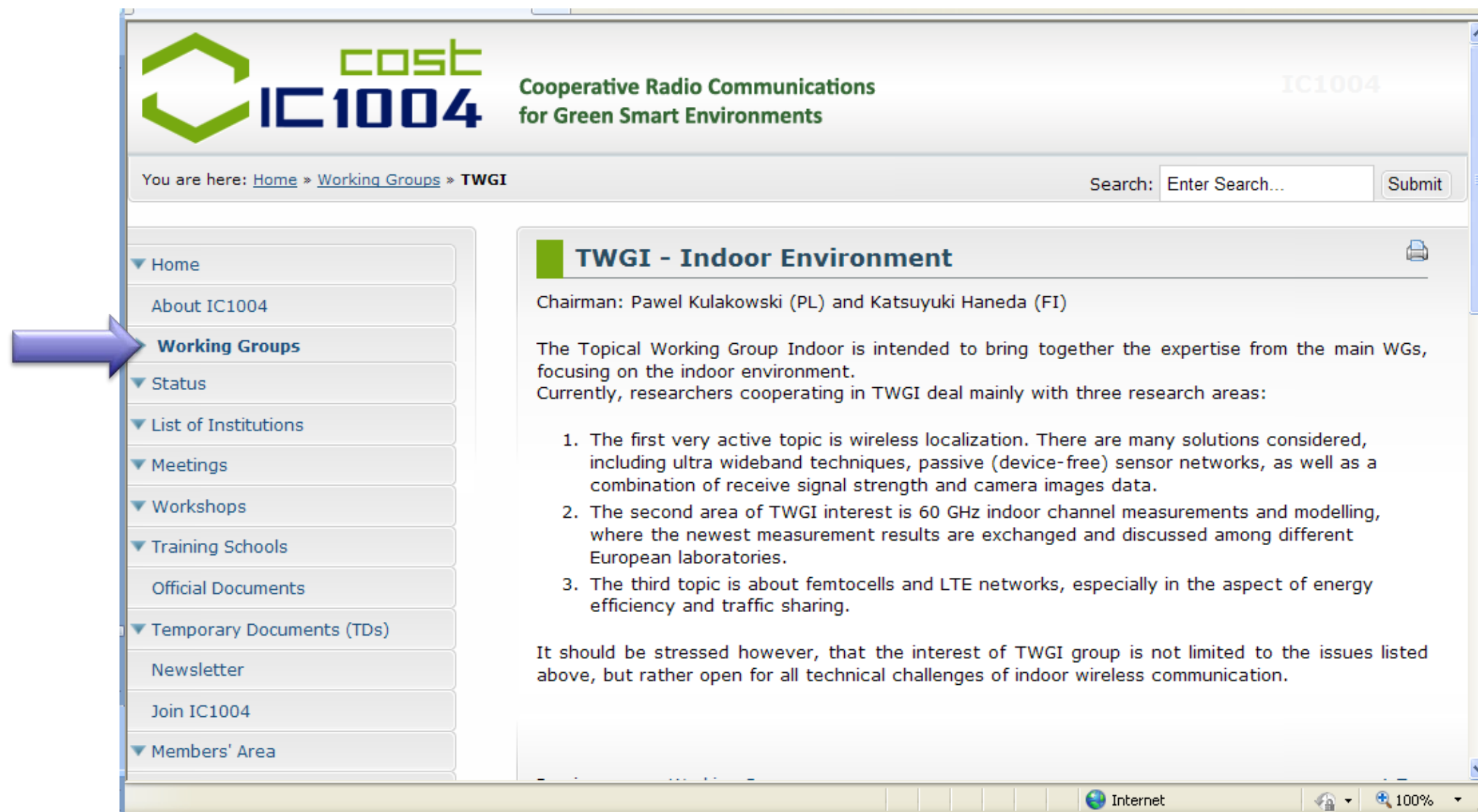
+About 40 conferences/courses/events with COST participants involved in organisation; announced at (www.ic1004.org)

...all under www.ic1004.org//announcements

Web Page

- Description of WGs Activities for the Web Page

(T-) (S-) WG Chairs: Please send updates (open)



10th MCM and Workshop

26- 28 May 2014, Aalborg

Local Organiser: Gert Pedersen

11th MCM

24-26 September 2014, Krakow

Local Organiser: Pawel Kulakowski

12th MCM

28-30 Jan 2015, Dublin

Local Organiser: Connor Brennan

15. Close of Meeting

Action Points after 8th MCM:

AP	WHAT	WHO	WHOM	WHEN
9.1	Apply for ESR grants to conferences	ESRs	Chair	11-Feb
9.2	Send reimbursement invoices docs	Those entitled to	Secretary	28-Feb
9.3	Send Minutes of Group Meetings	Group Chairs	Chair	28-Feb
9.4	Liaisons: send reports	Rapporteurs	Secretary	28-Feb
9.5	Submitt Abstracts to Workshop	Authors	Chair	31-Mar

15. Close of Meeting

Action Points after 8th MCM:

AP	WHAT	WHO	WHOM	WHEN
9.6	WG activities description update	WG Chairs	Chair	28-Feb
9.7	Apply for grants to TS and euCAP	All	Chair	9th March
9.8	Send STSM Applic.	Those interested	eCOST +Chair	<u>Open</u>
9.9	Tutorials: proposals	All	Chair	Anytime

15. Close of Meeting

Action Points after 8th MCM:

AP	WHAT	WHO	WHOM	WHEN
9.10	Register to 10 th MCM	attendees	website	12-May
9.11	Request TD number	authors	website	12-May
9.12	Entitle substitutions	MC	Secretary	12-May
9.13	Submit full TD	Authors after after 9.10+9.11	website	19-May
	Book flights for Aalborg meeting	attendees	-	ASAP



Cooperative Radio Communications for Green Smart Environments



THANK YOU !

**See you in Aalborg,
May 26-28**