



Cooperative Radio Communications for Green Smart Environments

5th Management Committee &
Technical Meeting
Bristol, 24-26 Sept 2012



Prof. Narcis Cardona
Univ. Politecnica Valencia
iTEAM Research Institute



1. Opening formalities
2. Adoption of the Agenda
3. Approval of the Minutes of the last MCM
4. Status of the Action
5. Report from Grant Holder
6. STSMs status
7. New non-COST Institutions
8. Presentation and discussion of technical documents
9. Reports from Group Chairs
10. Newsletter
11. Training activities (TS and Tutorials)
12. Liaisons with International Bodies and Projects
13. Future meetings
14. AOB
15. Close of Meeting

1. Opening formalities
2. Adoption of the Agenda
3. Approval of the Minutes of the last MCM
4. Status of the Action
5. Report from Grant Holder <--Tuesday 17:30-18:00
6. STSMs status
7. New non-COST Institutions
8. Training activities (TS and Tutorials) <--Today
9. Future meetings. <--Today
10. Presentation and discussion of technical documents
11. Reports from Group Chairs
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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?

ATTENDANCE LISTS:

Please sign the *THREE* attendance lists for the MCM (one per day)

&

ONE attendance list for *EVERY* WG/SWG/TWG you attend

Number of signatories countries: 28

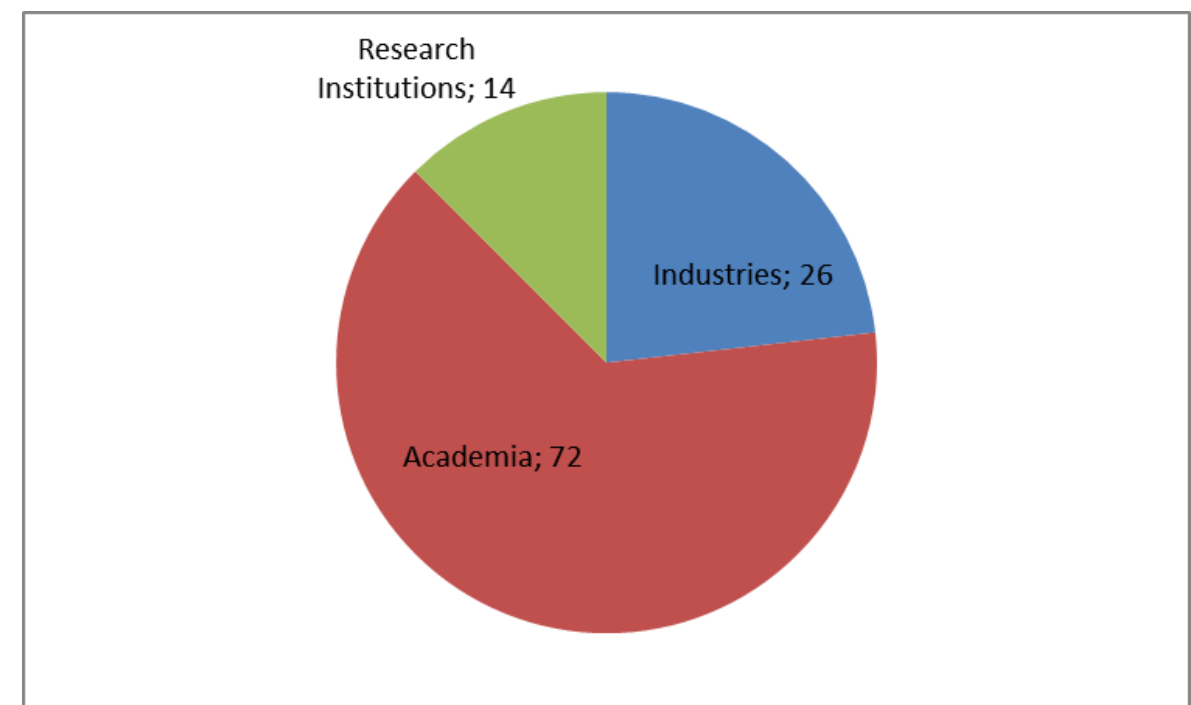
Number of COST country entities (institutes, etc.) currently participating: 110

Number of non-COST countries: 7*

Number of non-COST entities (institutes, etc.) currently participating: 11 (+2)

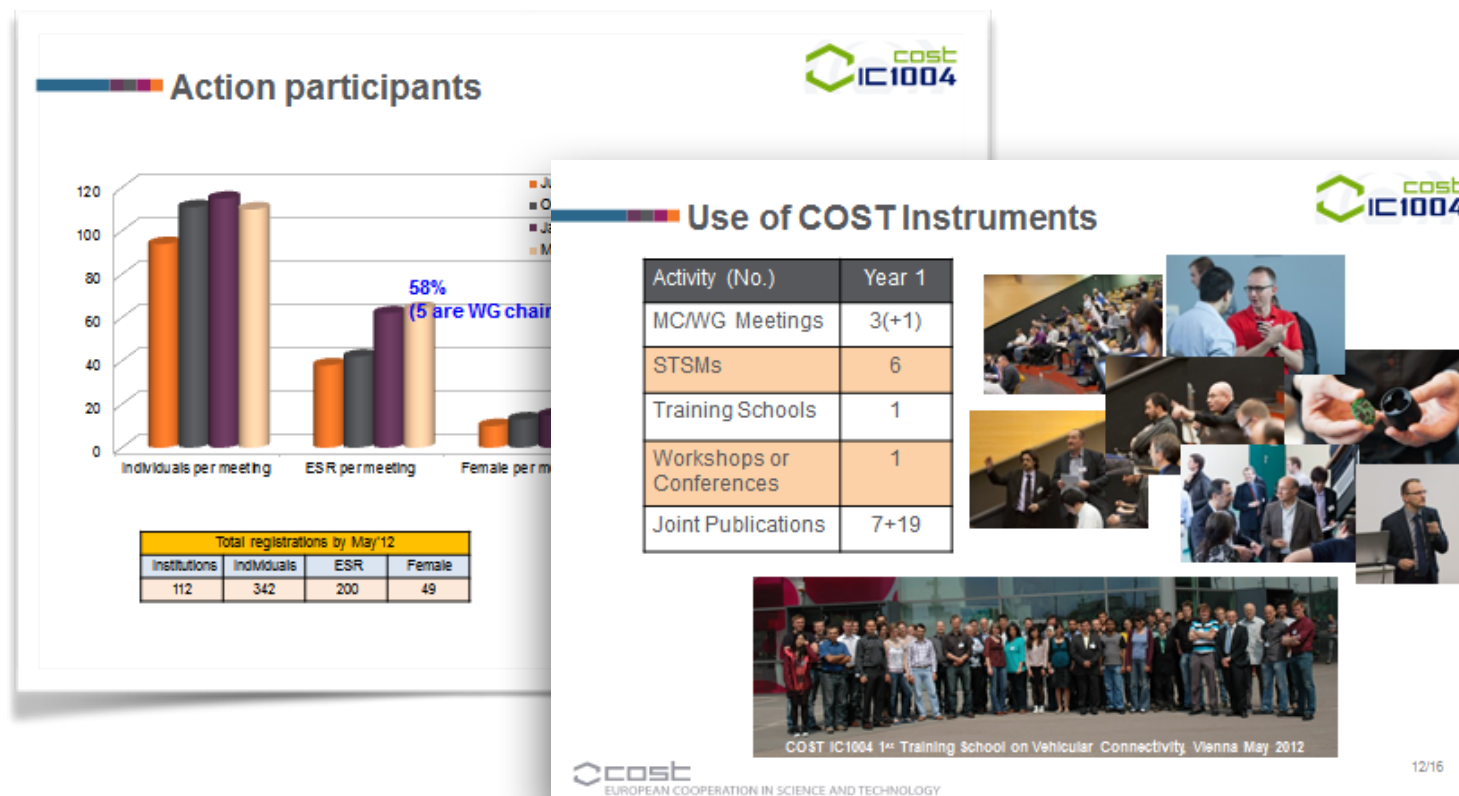
Number of MC Members: 51 (+ Chair)

Number of registered experts so far: 380

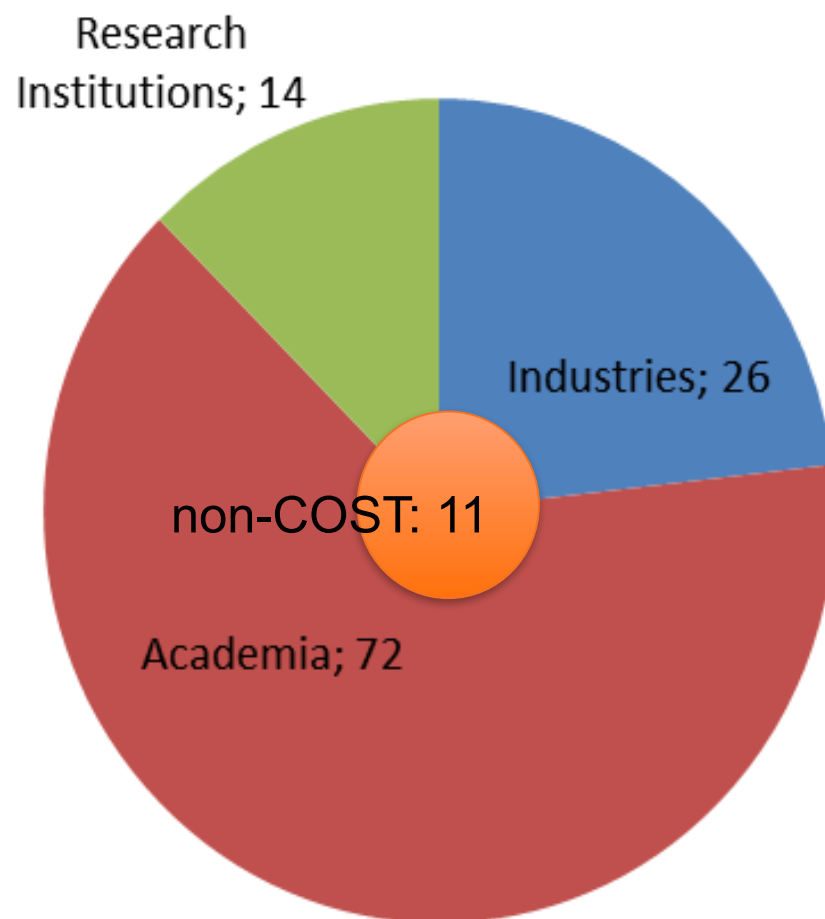


- Chairman reported on June 13th in Bucarest during the DC Annual Meeting

Some slides from my presentation:



Action Parties



Grant Holder:

CNIT, Italy

Prof. Roberto Verdone

Chair:

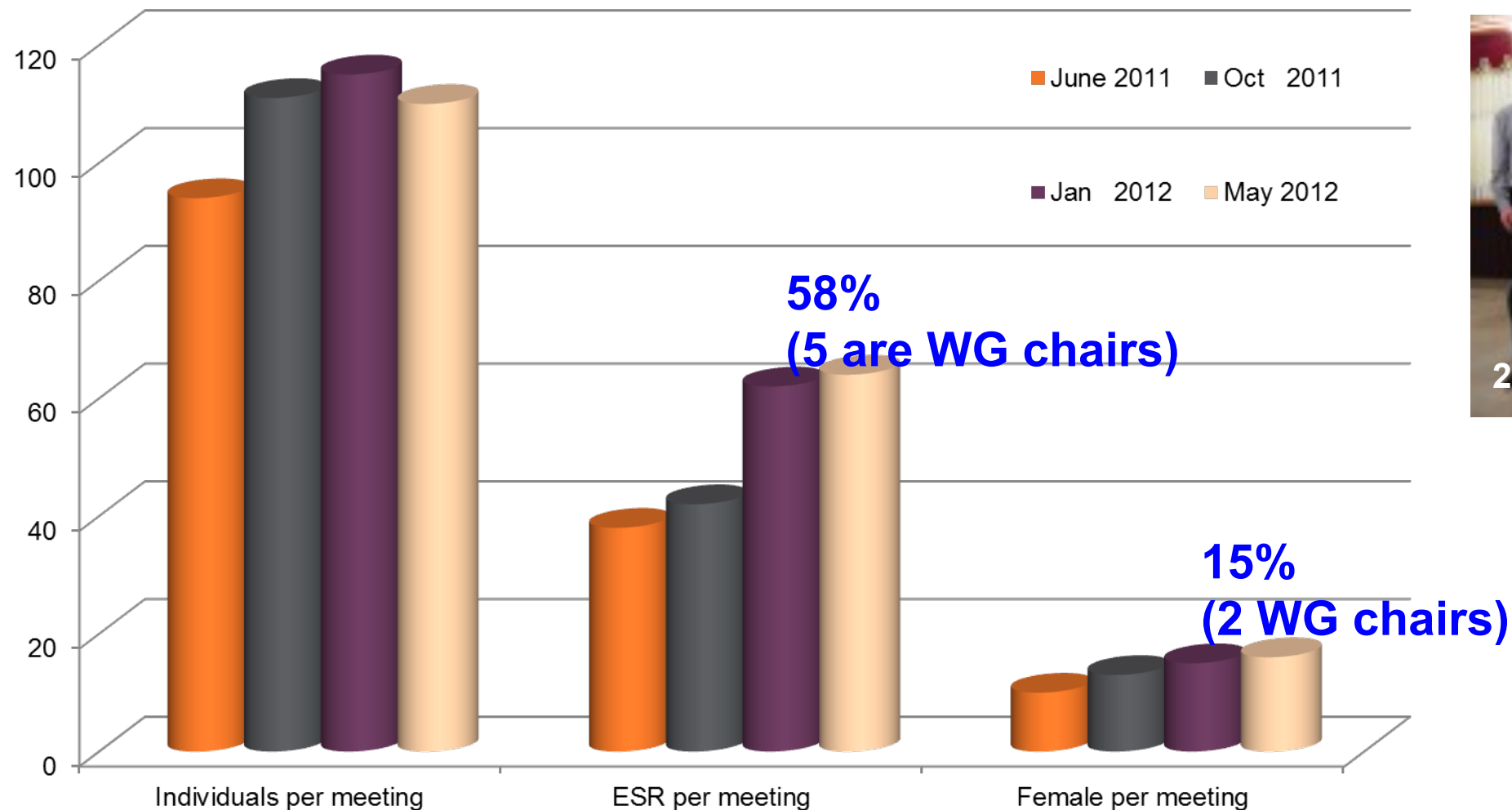
Narcis Cardona

iTEAM, U.P.Valencia, Spain

Communications and Navigation Heinrich Hertz Institute IMST GmbH Karlsruher Institut für Technologie RheinMain University of Applied Sciences Rohde & Schwarz GmbH & Co. KG Ruhr-

University Bochum Technische Universität Braunschweig University of Technology Ilmenau University of Stuttgart University of Ulm Alexander TEI of Thessaloniki University of Piraeus National Technical University of Athens Consorzio Nazionale Interuniversitario per le Telecomunicazioni / Università di Bologna Fondazione Ugo Bordoni Università di Ferrara Dublin City University Ben-Gurion University of the Negev Jerusalem College of Technology Ruppin Academic Center Acronym National Institute of Information and Communications Technology Interdisciplinary Centre for Security, Reliability and Trust University Goce

Action participants



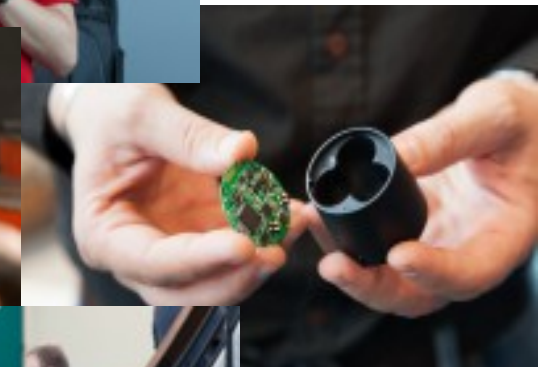
Total registrations by May'12			
Institutions	Individuals	ESR	Female
112	342	200	49



22% of the presentations at 4th MCM from Women

Use of COST Instruments

Activity (No.)	Year 1
MC/WG Meetings	3(+1)
STSMs	6
Training Schools	1
Workshops or Conferences	1
Joint Publications	7+19



COST IC1004 1st Training School on Vehicular Connectivity, Vienna May 2012

Outcomes of the Action after one year(+) of activities:

- **4 (+1) Technical meetings, 270 (+82) TDs**
- **3 STSMs Calls launched, 6 STSM completed**
- **Organisation of one Joint Workshop**
- **Organisation of 2 (+1) Training Schools, one joint**
- **2 Tutorials**
- **Participation to Conferences, Special Sessions**
- **Newsletter of the Action (2 issues)**
- **Journal Special Issue (Springer)**
- **Liaisons to URSI, 3GPP, ETSI, CTIA, Greentouch, IC905, VISTA, Earth, Greenet, ...**

Challenges (2nd Year) as shown at ICT Annual Meeting

1. Scientific:

- Evolve the IC1004 Radio Channel Model
- Specify on wireless localization techniques
- Share results on 60 GHz indoor measurements and modelling
- Reference scenarios for the evaluation of collaborative networks
- Evaluation methodologies for LTE femtocells and networks
- Develop Over-the-Air testing techniques for MIMO user equipment
- Produce a COST channel model for Body Area Communications

2. Liaisons to Industry and Standardisation Bodies:

- International standardisation bodies: CTIA, RAN4 of 3GPP, ETSI
- International projects: Greentouch, Earth, Greenet, others
- Industrial participation, keep increasing

3. Training & Dissemination:

- *Training Schools on OTA, BAN and Cooperative Nets., +Tutorials*
- Newsletter, Special sessions, Special issues

Some conclusions from the Annual Meeting:

- We are among the biggest (with 1003) actions in ICT
- It's time to concentrate on certain type of outcomes:
Reccomendations, Standards, Reference Models, White Papers, ...
- Very important to mention COST IC1004 (incl. COST word!) in publications
- Select and send success stories to COST newsletter (--> WG chairs)
- Overlapping between Actions is not desirable. Let's take it as an opportunity for establishing joint activities, ...

*COST IC1004 **Position Paper** to Horizon2020:*

*Presented during the Workshop “Future Network Technologies Research and Innovation in HORIZON2020”, organised by the EU Commission, **Brussels June 29th***

- **Scientific Challenges and priorities:**
 - ✓ Networks beyond the Cellular concept
 - ✓ Energy Efficient Cooperative Networking
 - ✓ Wireless Communications for Traffic Safety and Efficiency
 - ✓ Efficiency and Security at the Wireless Terminal side
 - ✓ Testing adaptive, distributed, cognitive mobile systems

- **The role of COST Actions in Horizon 2020:**
 - ...scientific networking without the partnership restrictions of projects,
 - ...evaluate and grant Actions in terms of their outcomes, dimension and industrial participation,
 - ...keep serving as an open forum for Early Stage Researchers,
 - ...keep attracting Industries to meet Academia for research discussions
 - ...establish formal procedures to link COST Actions to other FP instruments,
 - ...evolve mature COST Actions towards stable Networks of Knowledge

Travel and Reimbursement issues

Reimbursements for this MCM:

30 (MC or official substitutes) entitled

Reimbursement will be based on COST rules

- Please give the Secretary (Silvia) your original signed reimbursement form *during the meeting*
- Send travel copies in PDF format no later than *October 15th*

Travel and Reimbursement issues

The *new Online Travel Reimbursement Request* in e-COST from 19 September 2012.

In future meetings (and for those who had not yet downloaded the Travel Reimbursement Request this time) it is mandatory to use this new feature.

The eligible participants will have to

- Fill in by themselves the reimbursement docs on **e-cost**
- Upload on e-cost the relevant receipts/tickets
- When everything is complete on e-cost they can download the travel reimbursement form, print it, sign it and send it by POST to the Grant Holder
- GH will then proceed with the payment.

- 6 STSMs completed
 - Geoffrey Hilton (U.Bristol, UK); Nikola Gvozdenovic (VUT, Austria); Zoran Utkovski (MK); Imarn Latif (Eurecom, France); Wei Wang (DLR, Germany); Thomas Jansen (Uni.Braunschweig, Germany)
- 2 Approved
 - Ms.Sato Telemi (T.U.Ilmenau); Mr.Joerg Nucklet (TUB)
- *Results presented at Meetings (TDs # ...06; 18; 46; 63; 70)*

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

Guidelines @ www.cost.eu

Recommended IC1004: prioritise using labs, host facilities, expected outcome to IC1004, relationship with WGs objectives,....

COST IC1004 policy for the second year period:

To grant (up to 10) solid STSM proposals, prioritise using labs and host facilities, clear outcome to IC1004 and relationship with WGs objectives, longer stays (up to 4 weeks), favouring a more in-depth work, ...

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)

Rank 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

Up to date Chairman, assessed by the Steering Committee, applied and took decisions accordingly

--> Approval?

Current Non-COST Members (11):

- ComSearch; Motorola Mobility; NICT; Tokio Institute of Technology; JAIST; Tongji University; BUPT; ICESI; CRC; Univ. of Montenegro*; La Trobe Univ.**

Applications in progress:

[status: reviewed and accepted for for MC approval]

- USA, National Institute of Standards & Technology (IT Lab)
- China, Academy of Broadcasting Planning, (EMC lab + SARFT)

- To be approved today (at meeting)

--> VOTE

- 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, Ilmenau (Germany)

25 grants available

IC1004 Training School

“PROPAGATION MEASUREMENT, MODELING, AND OTA-EMULATION”

- Venue: Ilmenau (TU-Ilmenau and Fraunhofer IIS facilities)
- Dates: 12-14 November 2012
- Organiser: Wim Kotterman (TU Ilmenau)
- Duration: 3 days, 25 units (6 for practical issues)
- Attendees: 25 - 30 students

<https://conferences.tu-ilmenau.de/frontend/?sub=118>

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

- 6th MCM, 6-8 February 2013; Univ. Málaga, Spain

Local organisers: Salvador Luna, Raquel Barco

- 7th MCM and 2nd Workshop: 29-31 May 2013; TU Ilmenau, Germany

Local organisers: Reiner Thomae, Wim Kotterman

- 8th MCM, 25-27 Sept 2013: Ghent, Belgium

JOINT with IC1102 (VISTA) as proposed by MC members of both Actions

Local organiser: Wout Joseph

Offers for 2014:

- U. Ferrara, (Bologna), Italy, Velio Tralli

Others?

- There are **82!** TDs to be presented at this MCM.
 - 83 TD numbers were requested by the deadline
 - 1 TD (05074) withdrawn
- **+5** Keynote speakers:
 - Prof. Zhisheng Niu, Tsinghua University (China), "Characterizing Energy-Delay Tradeoff in GREEN Communications"
 - Dr. Yang Hao, Queen Mary College London University, "Versatile, Integrated, and Signal-aware Technologies for Antennas (VISTA)"
 - Dr Simon Fletcher (NEC Telecom MODUS Ltd) "Mobile VCE Green Radio – Objectives, Results & Outcomes"
 - Professor Reza Karimi (Technical Policy Director, Ofcom) "Whitespaces"
 - Stuart Revell (ICT-KTN) "Wireless Technology & Spectrum Challenges"

*TDs
allocation
to WGs*

WG 1	18, 24, 27, 28, 29, 37, 51, 63, 66, 75	(10)
WG 2	5, 17, 38, 62, 80,	(5)
WG 3	4, 7, 19, 25, 26, 44, 48, 52, 58,	(9)
WGs 1+2	34, 39, 61, 82	(4)
WGs 1+3	77	(1)
WGs 2+3	46, 60	(2)
WGs 1+2+3	-	(0)
SWG 1.1	11, 13, 32, 33, 43, 53, 73	(7)
SWG 2.1	21, 41, 54, 57, 64, 65,	(6)
TWG B	1, 14, 15, 16, 70, 72, 81	(7)
TWG V	8, 20, 22, 31, 35, 36, 45, 71	(8)
TWG U	10, 12, 55, 59, 61, 76, 83	(7)
TWG i	2, 3, 6, 30, 49, 50, 56, 67	(8)
TWG O	9, 23, 40, 68, 69, 78, 79	(7)

10. Presentation and Discussion of Technical Documents

	Monday	TD#	Tuesday	TD#	Wednesday	TD#	Room
9:00-10:30	MC Plenary		1+2	34, 39, 61, 82	SWG2.1	41, 54, 57, 65	Pugsley
			WGB	1,14,70,72,81	WGI	2,67,3,6,56	QB1.15
			WGU	76,83,DISC	WGO		QB1.18
			WGo	78, 79, DISC	WGB	15,16,DISC	QB1.8
11:00-13:00	Technical Plenary	Invited speakers	WG1	63, 66, 51, 75	SWG2.1	21, 64, DISC	Pugsley
		Prof. Niu	WG3	44,58,48,19	WGI	30,49,50,DISC	QB1.15
		Dr. Hao	WGO	9,23,40,68,69	WGV	20,31,45,DISC	QB1.18
		77			SWG1.1	11,32,73,DISC	QB1.8
14:00-15:30	WG1	37, 24, 27, 28	WG1	18, 29, DISC	MC Plenary		Pugsley
	WG2	5, 80, 17, 47	3 // 2+3	25,4// 46, 60			QB1.15
	WG3	7,26,52,DISC	WGV	8,71,22,35,36			QB1.18
						(close by 16:15)	QB1.8
16:00-17:30	WG2	38, 62, DISC	Technical Plenary	Invited speakers			Pugsley
	SWG1.1	13,33,43,53		NEC			QB1.15
	WGU	10,12,55,59		Ofcom			QB1.18
				ICT-KTN			QB1.8
			+GH report (MC Plenary)				

...MC Plenary continues on wednesday at 14:00

Plenary session *Resume*

Attendance lists from WGs/SWGs/SIGs:

Did you sign the general attendance list for the three days?

No signature, no reimbursement...

IN MEMORIAM

João Ferro



The passing of a colleague
The missing of a friend

Topical Working Groups, Coordinator: Alain Sibille (Fr)

- **Vehicular** Environment, TWG-V

Alexander Paier (AT), Erik Strom (SE)

- **Body** Environment, TWG-B

Raffaele D'Errico (FR), Kamya Yazdandoost (JP)

- **Urban** Environment, TWG-U

Thomas Jansen (DE), Sana Salous (UK)

- **Indoor** Environment, TWG-I

Pawel Kulakowski (PL), Katsuyuki Haneda (FI)

- **OTA-MIMO** Testing, TGW-O

Gert Pedersen (DK), Wim Kotterman (DE)

- Disciplinary Working Groups:
 - WG1: Claude Oestges, U.C.L. (BE)
 - SWG1.1: Vincent Lau (SE)
 - WG2: Alister Burr, U.York (UK)
 - SWG2.1: Jan Sykora (CZ)
 - WG3: Silvia Ruiz, U.P.C. (ES)

Newsletter

Editor: Prof. Alain Sibille

Welcome to distribute the link among your professional contacts:

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

Statistics

Accesses to web page: >16.000

NL Downloads:

1st issue: 633

2nd issue: 383

*COST IC1004 Google Scholar citations so far: 192
(COST2100: 725, COST273:1280; COST231: 3730)*

(4th) COST IC1004 Training School

“COOPERATIVE NETWORKING”

Joint organisation with DIWINE (?and Greenet) project

- Venue: Prague
- Dates: 20-22 May 2013 (option: mid- April)
- Organiser: Jan Sykora (CTU, Prague), +Alister Burr, +Silvia Ruiz
- Duration: 2 1/2 days, 5 / 7 lectures
- Attendees: up to 50 students

IC1004 support: Trainers travel costs, 25 grants for PhD and ESRs, organisational support (as in workplan & budget)

Liaisons:

- Fernando Velez (PT) IC905 (Terra), IC902 (Cognitive)
- Vincent Lau (SE), VISTA IC1102
- Sana Salous, (UK) Vice-Chair of URSI C
- Haibin Zhang, (NL) GreenTouch
- Thomas Kuerner, EurAAP
- Istvan Szini (USA), CTIA, 3GPP
- Moray Rumney, 3GPP RAN4
- Luis Correia, (PT) FP7 Earth
- Raffaele D'Errico (Fr) WiserBAN
- Benoit Derat, IEC, ICES, ...
- Newcom#, Roberto Verdone

Rapporteurs are kindly asked to report at plenaries and to send a short written report to Secretary by Oct 29th

Liaisons:

- Fernando Velez (PT) IC905 (Terra)
One/two experts from IC1004 invited to their coming meeting (Tim B.)
- Vincent Lau (SE), VISTA IC1102
- Sana Salous, (UK) Vice-Chair of URSI C
Proposal of a Special Issue to Radio Science
Proposal of Special Session(s) to URSI General Assembly 2014, China
- Haibin Zhang, (NL) GreenTouch
- Thomas Kuerner, EurAAP
- Istvan Szini (USA), CTIA, 3GPP
- Moray Rumney, 3GPP RAN4
- Newcom#, Roberto Verdone

“SMALL CELLS COOPERATIVE COMMUNICATIONS”

Joint with iPLAN FP7 project

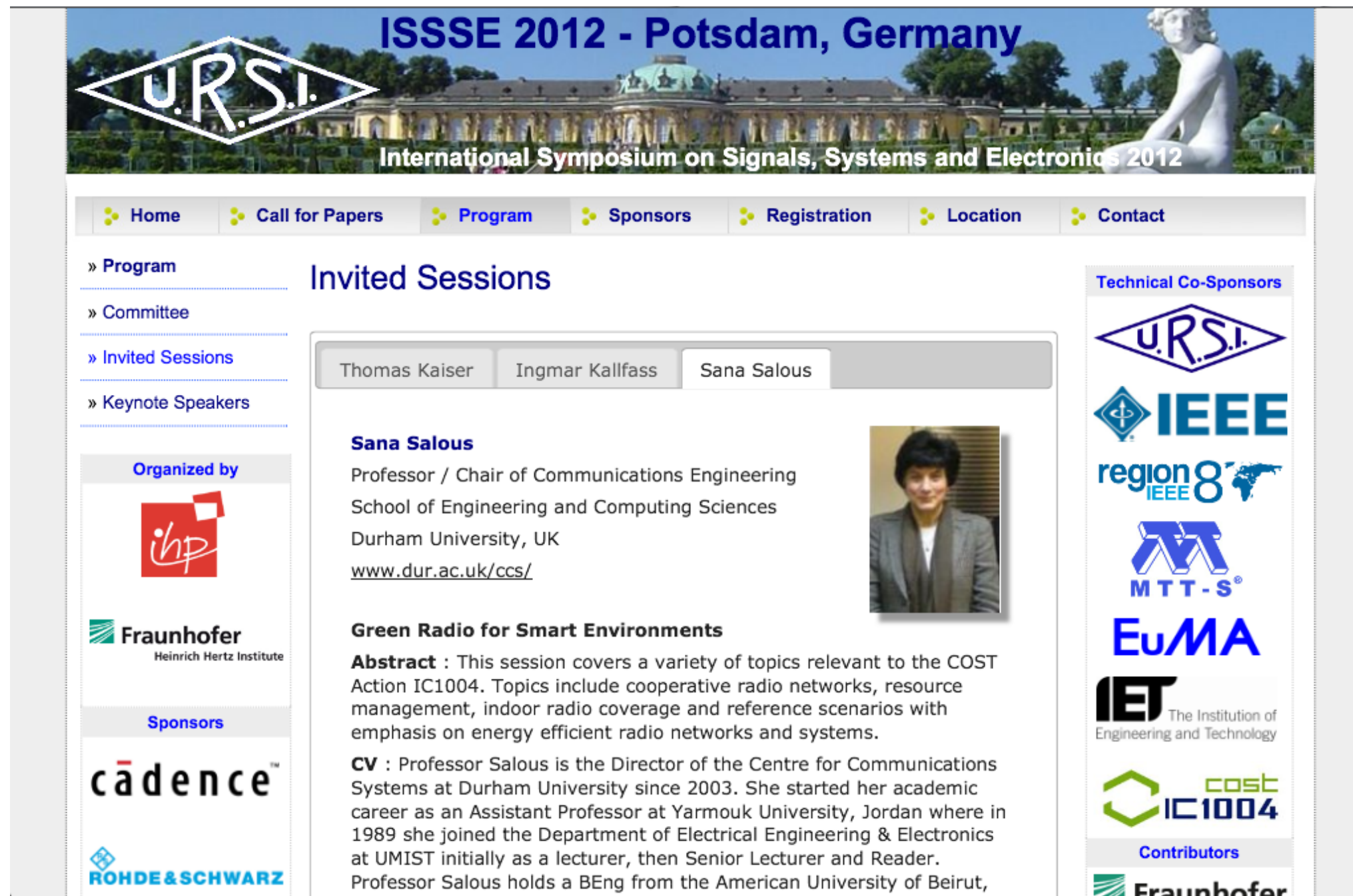
<http://ic1004-iplan-2012.conf.citi-lab.fr/>

Special Issue @

The Springer logo, featuring a chess knight icon and the word "Springer".
The website address "springer.com" in orange text.
The cover of the EURASIP Journal on Wireless Communications and Networking. It features a blue and orange geometric pattern. The title "EURASIP Journal on Wireless Communications and Networking" is in large blue letters. Below it, "Special Issue on Small Cell Cooperative Communications" is written in smaller blue letters. A large orange circle on the right contains the text "CALL FOR PAPERS" in white.
The SpringerOpen logo, featuring the word "SpringerOpen" with an orange open access icon.
A small thumbnail image of the journal cover for "Wireless Communications and Networking".

Mobile Internet Traffic today exceeds the total Internet traffic of 10 years ago. 3GPP Cellular networks have succeeded in offering sufficient coverage and capacity up to now, but the exponential current increase in mobile data traffic has opened a new challenge: providing high data rates in densely populated areas with limited spectrum availability, quite insufficient to cover the increasing demand. With radio access systems offering performance close to the Shannon limit, the addition of more cells in Radio Access Networks, combined with a tighter interference control is essential to continue increasing capacity. Small cells, pico- and femtocells are playing a key role in the current evolution of Cellular Networks, providing improved scalability, automated configuration and optimisation, rapid and cost effective deployment, efficient use of available backhaul, and high capacity density and enhanced user experience.

- IC1004 Special Session to URSI-ISSSE'2012 Conference, Potsdam (Germany) 3 - 6 Oct; <http://www.issse2012.org/>



ISSSE 2012 - Potsdam, Germany
International Symposium on Signals, Systems and Electronics 2012

Home Call for Papers Program Sponsors Registration Location Contact

» Program
» Committee
» Invited Sessions
» Keynote Speakers

Invited Sessions

Thomas Kaiser Ingmar Kallfass Sana Salous

Sana Salous
Professor / Chair of Communications Engineering
School of Engineering and Computing Sciences
Durham University, UK
www.dur.ac.uk/ccs/

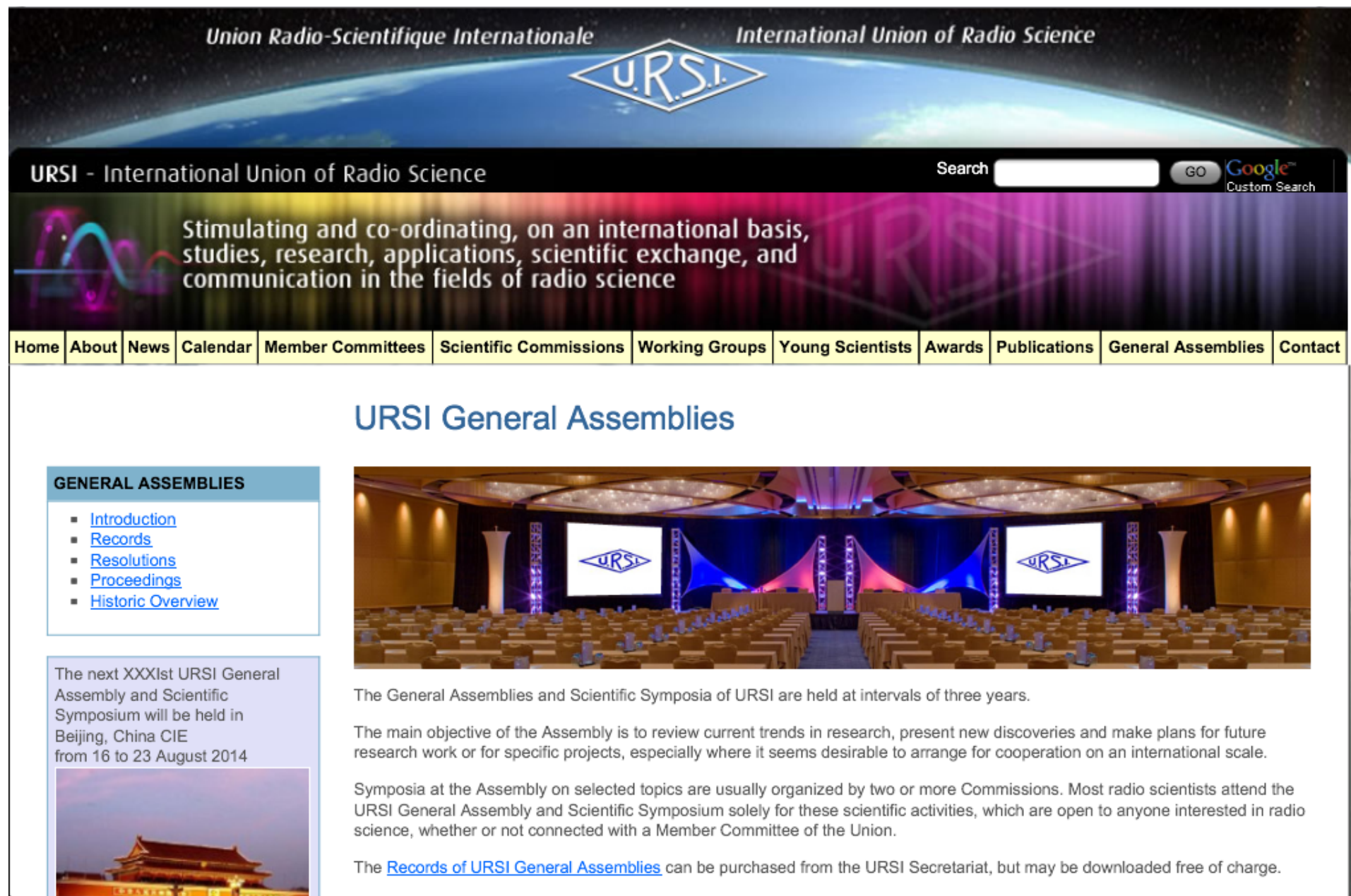
Green Radio for Smart Environments
Abstract : This session covers a variety of topics relevant to the COST Action IC1004. Topics include cooperative radio networks, resource management, indoor radio coverage and reference scenarios with emphasis on energy efficient radio networks and systems.
CV : Professor Salous is the Director of the Centre for Communications Systems at Durham University since 2003. She started her academic career as an Assistant Professor at Yarmouk University, Jordan where in 1989 she joined the Department of Electrical Engineering & Electronics at UMIST initially as a lecturer, then Senior Lecturer and Reader. Professor Salous holds a BEng from the American University of Beirut,

Organized by
ihp
Fraunhofer Heinrich Hertz Institute

Sponsors
cadence
ROHDE & SCHWARZ

Technical Co-Sponsors
URSI
IEEE
region 8 IEEE
MTT-S
EuMA
IET The Institution of Engineering and Technology
COST IC1004
Contributors
Fraunhofer

- IC1004 Special Session to URSI-General Assembly, China in August 2014



The screenshot shows the URSI website with the following content:

Union Radio-Scientifique Internationale **International Union of Radio Science**

URSI - International Union of Radio Science

Stimulating and co-ordinating, on an international basis, studies, research, applications, scientific exchange, and communication in the fields of radio science

[Home](#) [About](#) [News](#) [Calendar](#) [Member Committees](#) [Scientific Commissions](#) [Working Groups](#) [Young Scientists](#) [Awards](#) [Publications](#) [General Assemblies](#) [Contact](#)

URSI General Assemblies

GENERAL ASSEMBLIES

- [Introduction](#)
- [Records](#)
- [Resolutions](#)
- [Proceedings](#)
- [Historic Overview](#)

The next XXXIst URSI General Assembly and Scientific Symposium will be held in Beijing, China CIE from 16 to 23 August 2014



The General Assemblies and Scientific Symposia of URSI are held at intervals of three years.

The main objective of the Assembly is to review current trends in research, present new discoveries and make plans for future research work or for specific projects, especially where it seems desirable to arrange for cooperation on an international scale.

Symposia at the Assembly on selected topics are usually organized by two or more Commissions. Most radio scientists attend the URSI General Assembly and Scientific Symposium solely for these scientific activities, which are open to anyone interested in radio science, whether or not connected with a Member Committee of the Union.

The [Records of URSI General Assemblies](#) can be purchased from the URSI Secretariat, but may be downloaded free of charge.

October:

- COST IC1004 Special Session to URSI-ISSSE'2012 Conference, Potsdam (Germany) 3 - 6 Oct; <http://www.issse2012.org/>

+About 20 conferences/courses/events with COST participants involved in organisation; announced at (www.ic1004.org)

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

March:

- Special Session at ISMICT 2013, International Symposium on Medical Information and Communication Technology. Tokio 6-8 March 2013. Deadline 31stOct**

www.ismict2013.org (Jun-ichi Takada)



The 7th International Symposium on Medical Information and Communication Technology

ISMICT2013

Meiji University, Tokyo, Japan
March 6-8, 2013

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[CFP](#)
[Program](#)
[Special Session](#)
[Paper Submission](#)
[Venue](#)
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The 7th International Symposium on Medical Information and Communication Technology (ISMICT 2013)



Conference Venue: Surugadai Campus of Meiji University in Tokyo City Area

Information and Communication Technology (ICT) for medical and healthcare applications, Body Area Network (MBAN) are the focus of the Seventh International Symposium on Medical Information and Communication Technology (ISMICT2013). ISMICT2013 aims to establish a forum to present new research results, exchange ideas, discuss practices, and share experiences among participants in the field of information and communication engineering, biomedical engineering, medicine, electrical and computer engineering, wired and wireless networks, and other disciplines. ISMICT2013 will be held in Meiji University, Tokyo, Japan, 6-8 March 2013. The theme of ISMICT2013 is *Towards Better Personalized Medicine and Healthcare*.

ISMICT 2013 will continue and extend the tradition established in Japan, Finland, Canada, Taiwan, Switzerland and U.S.. The focus this year will be on Medical Body Area Networks, Technology and Services for Personalized Medicine.

Important Dates

Paper Submission Due: Oct. 31, 2012
 Acceptance Notification: Dec. 15, 2012
 Camera-ready Paper Due: Jan. 7, 2013

News

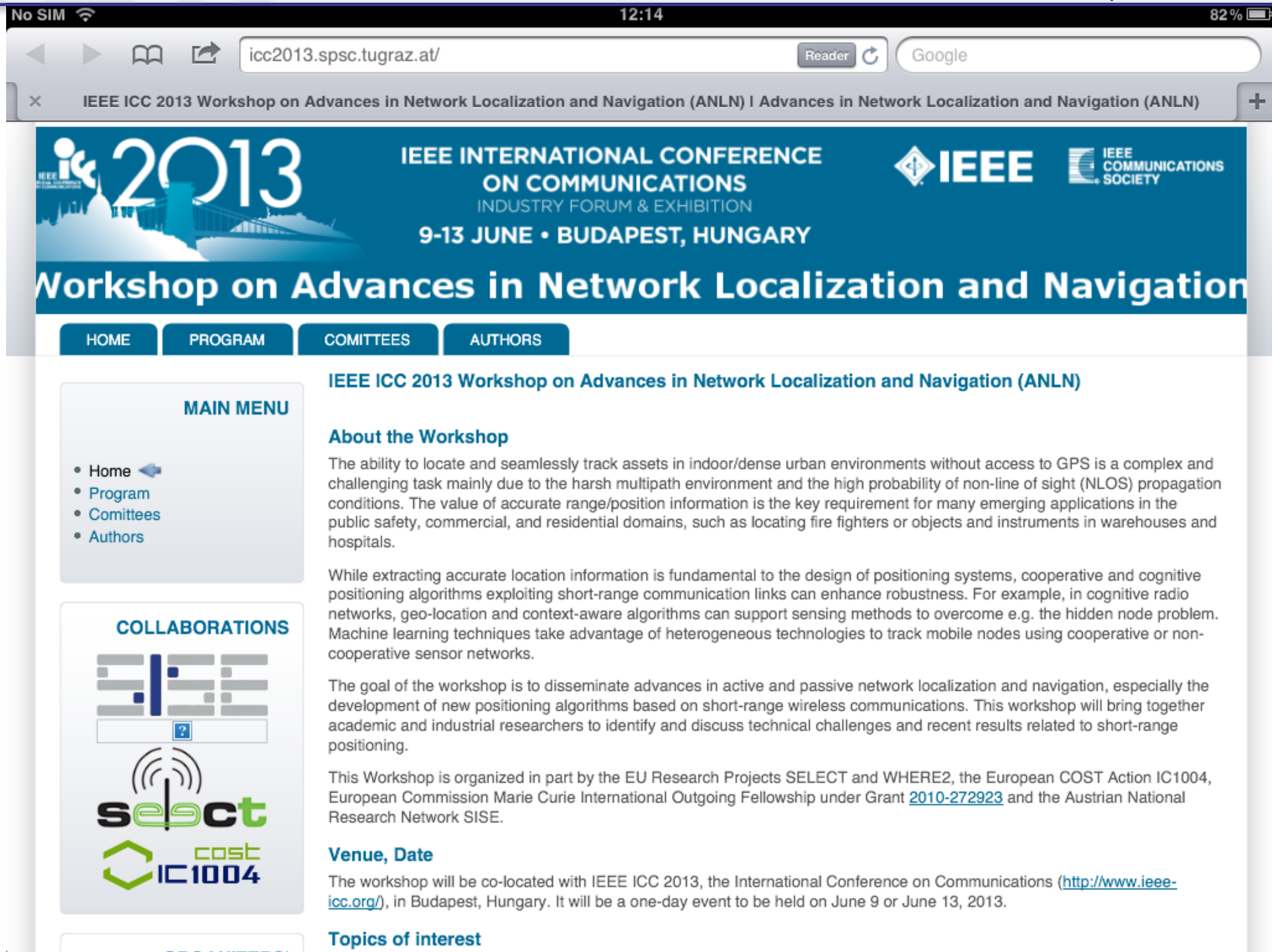
Jul 20: Initial web pages have been created.

Co-Sponsors



Technical Co-Sponsors





The screenshot shows a mobile browser interface displaying the website for the IEEE ICC 2013 Workshop on Advances in Network Localization and Navigation (ANLN). The browser's address bar shows the URL `icc2013.spsc.tugraz.at/`. The website header features the IEEE logo, the IEEE Communications Society logo, and the text "IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS INDUSTRY FORUM & EXHIBITION 9-13 JUNE • BUDAPEST, HUNGARY". Below this, the workshop title "Workshop on Advances in Network Localization and Navigation" is prominently displayed. A navigation menu includes links for HOME, PROGRAM, COMMITTEES, and AUTHORS. The main content area is titled "IEEE ICC 2013 Workshop on Advances in Network Localization and Navigation (ANLN)" and contains sections for "About the Workshop", "Collaborations", "Venue, Date", and "Topics of interest".

MAIN MENU

- Home
- Program
- Committees
- Authors

COLLABORATIONS

IEEE

select

COST IC1004

IEEE ICC 2013 Workshop on Advances in Network Localization and Navigation (ANLN)

About the Workshop

The ability to locate and seamlessly track assets in indoor/dense urban environments without access to GPS is a complex and challenging task mainly due to the harsh multipath environment and the high probability of non-line of sight (NLOS) propagation conditions. The value of accurate range/position information is the key requirement for many emerging applications in the public safety, commercial, and residential domains, such as locating fire fighters or objects and instruments in warehouses and hospitals.

While extracting accurate location information is fundamental to the design of positioning systems, cooperative and cognitive positioning algorithms exploiting short-range communication links can enhance robustness. For example, in cognitive radio networks, geo-location and context-aware algorithms can support sensing methods to overcome e.g. the hidden node problem. Machine learning techniques take advantage of heterogeneous technologies to track mobile nodes using cooperative or non-cooperative sensor networks.

The goal of the workshop is to disseminate advances in active and passive network localization and navigation, especially the development of new positioning algorithms based on short-range wireless communications. This workshop will bring together academic and industrial researchers to identify and discuss technical challenges and recent results related to short-range positioning.

This Workshop is organized in part by the EU Research Projects SELECT and WHERE2, the European COST Action IC1004, European Commission Marie Curie International Outgoing Fellowship under Grant [2010-272923](#) and the Austrian National Research Network SISE.

Venue, Date

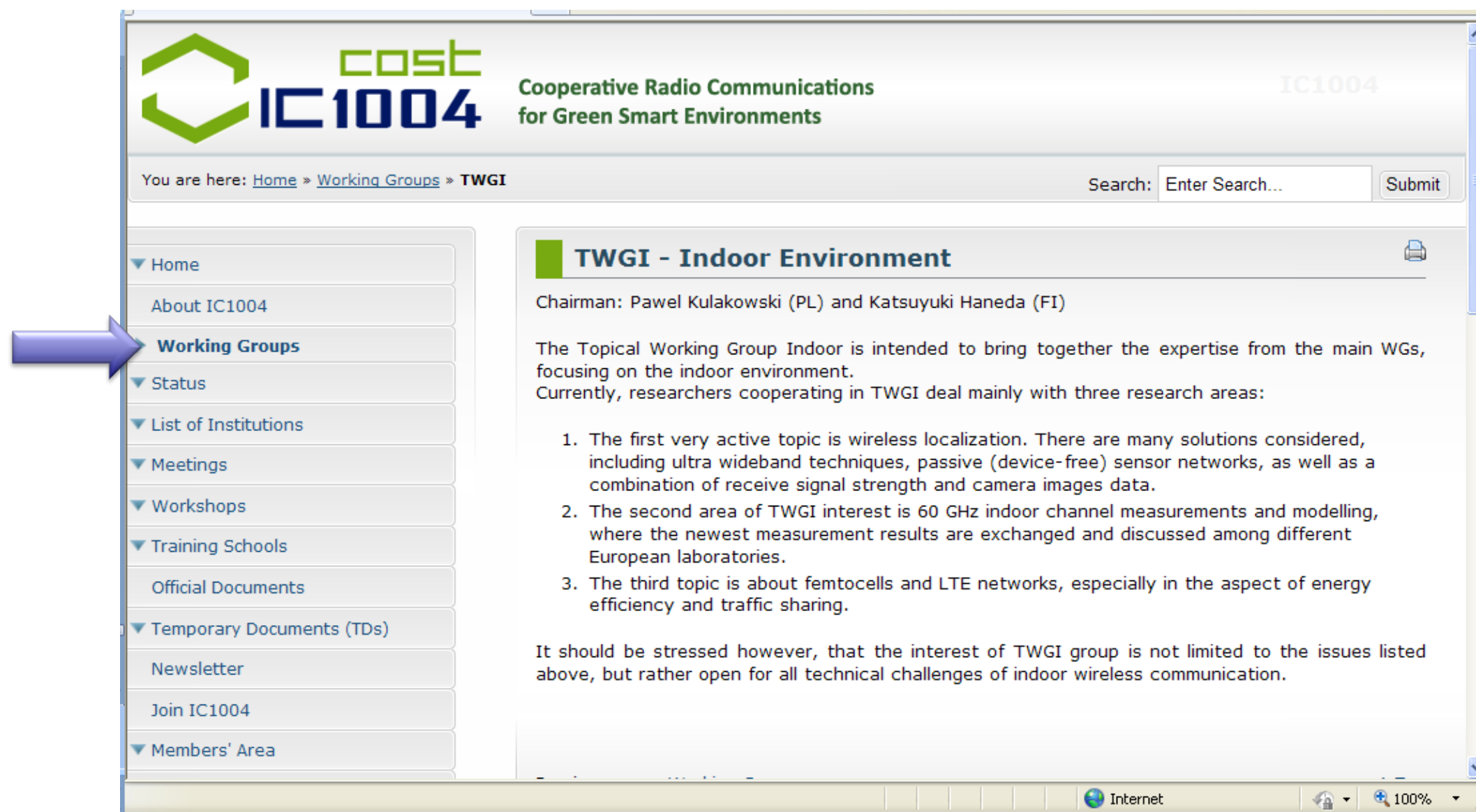
The workshop will be co-located with IEEE ICC 2013, the International Conference on Communications (<http://www.ieee-icc.org/>), in Budapest, Hungary. It will be a one-day event to be held on June 9 or June 13, 2013.

Topics of interest

Web Page

- Description of WGs Activities for the Web Page

WG Chairs: Please send updates



*Any other
bussiness?*

15. Close of Meeting

Action Points after 4th MCM:

AP	WHAT	WHO	WHOM	WHEN
5.1	Send reimbursement invoices docs	Those entitled to	Secretary	15-Oct
5.2	Send Minutes of Group Meetings	Group Chairs	Chair	29-Oct
5.3	Liaisons: send reports	Rapporteurs	secretary	29-Oct
5.4	WG activities description update	WG Chairs	Chair	29-Oct
5.5	Send STSM Applic.	Those interested	eCOST +Chair	<u>Open</u>
5.6	Tutorials: proposals	All	Chair	Anytime

15. Close of Meeting

Action Points after 4th MCM:

AP	WHAT	WHO	WHOM	WHEN
5.7	Register to 5th MCM	attendees	website	21-Jan
5.8	Request TD number	authors	website	21-Jan
5.9	Entitle substitutions	MC	secretary	21-Jan
5.10	Submit full TD	Authors after 5.7	website	28-Jan
	Book for Málaga meeting	attendees	-	ASAP



Cooperative Radio Communications for Green Smart Environments

THANK YOU

See you in Málaga, February 6-8, 2013



- 6th MCM, **6-8 February 2013**; Univ. **Málaga**, Spain
Local organisers: Salvador Luna, Raquel Barco
Possible tutorial from Kamya (SAR) and Claude (cost model)
- 7th MCM and 2nd Workshop: **29-31 May 2013**; TU **Ilmenau**, Germany
Local organisers: Reiner Thomae, Wim Kotterman
- 8th MCM, **25-27 Sept 2013**: **Ghent**, Belgium
JOINT with IC1102 (VISTA) as proposed by MC members of both Actions
Local organiser: Wout Joseph

Offers for 2014:

- U. *Ferrara*, (Bologna), Italy, Velio Tralli
- Aalborg, (DK), Gert Pedersen -- joint workshop