European Co-operation in the Field of Scientific and Technical Research

COST 259

Wireless Flexible Personalised Communications

Minutes of the 7th Meeting of the Management Committee,
held in Thessaloniki (GR) on 20-21 January 1999

COST 259
Minutes of the 7th Meeting of the Management Committee, held at Hotel Philipion, Thessaloniki (GR), on 20-21 Jan. 1999, organised by Aristotle University of Thessaloniki

1. Opening Formalities

The meeting was formally opened by Prof. Luis M. Correia, after which Prof. Niovi Pavlidou, the Local Organiser, addressed the plenary for a welcome message, and details on the way the meeting was organised.

2. Adoption of the Agenda

The Agenda, included in Annex A, was formally approved by unanimity.

3. Approval of the Minutes of the 6th Meeting

The minutes, without corrections, were approved unanimously.

4. Status of the Action

The Chairman informed that he received an informal request from an institution belonging to a non-COST country to join the Action: Ben-Gurion University of the Negev (Israel), via Prof. Natan Blaunstein. Prof. Blaunstein was informed of the procedures to follow, and a formal request is expected to be presented at the next meeting.

The Chairman also reported that, according to an information from the COST Telecom Secretariat, the official starting date of the Action is 1996/Dec/10 (when the number of 5 signatory countries of the MoU was reached) although the first meeting has been held on 1997/Apr/03; as a consequence the Action is due to finish by 1999/Dec/09. After some discussion, it was agreed that a proposal for an extension should be submitted to the TCT; a document will be prepared to be discussed at the next meeting in April, and all delegates were asked to send contributions to this document.

The Plenary was also informed by the Chairman that some general guide lines are being prepared by the TCT for writing Final Reports.

The number of signatory countries, participating institutions and delegates remains unchanged since last meting.

5. COST 231 Book

The Chairman reported that he has personally delivered, by early December, the final version of the CPST 231 Final Report to the COST Telecom Secretariat, which will be in charge of printing it. The number of 1 000 copies was confirmed, but it is still not clear how the distribution will be done. The book is expected to be available in the next weeks.

There is also a version of the book in files, both in *.ps and *.pdf. These files will be placed on a server, in the event that all copies are distributed.

6. Budget and reimbursements

The Chairman informed that reimbursement concerning the remaining 20 % of Bern and Bradford meetings as well as 100 % of the Duisburg one has already been processed. In the future no delay will occur, due to late delivery to the Action Secretariat of the documents and form for reimbursement: if the funding is available, those who deliver their documents at the meeting will be immediately reimbursed.

The Chairman reported on the expenses during 1998: travel concerning Bern, Bradford and Duisburg meetings on a total of 23.028, 23.881 and 22.515 kEuro, respectively; travel concerning the participation of the Chairman in the TCT meeting in Helsinki, 1.271 kEuro; workshop in Bradford, 7 kEuro; Action Secretariat, 18 kEuro. The total expense was 95.695 kEuro, and since the budget for 1998 was 115 kEuro, to which 11.5 kEuro were added, there is a total of roughly 30 kEuro for Short-Term Missions, which has to be spent up to June 1999. Of the total of 115 kEuro, only 92 kEuro have been received (corresponding to 80 %), and the remaining 23 kEuro are expected to be received soon.

There were no proposals for Short-Term Missions submitted since the last meeting, which means that the above mentioned budget is fully available, enabling 20 to 25 missions. After some discussion, and as no strong commitments from any one came forward, it was agreed that the budget will be spent on a "first come first serve" basis. All delegates were asked to submit proposals for Short-Term Missions (Action Point 7), since this is one of COST instruments to achieve one of the goals of the programme: to increase the collaboration among institutions.

As far as the budget for 1999 is concerned, still no decision was taken, and there is no information on the date it will happen, since the overall budget of COST is linked to the one of the 5th framework Programme. Nevertheless, it was decided that an advanced payment would be granted to running Actions, and an amount of 30 kEuro was granted to COST 259. Due to a mistake of the COST Telecom Secretariat, the transfer of the money will be done to the former Chairman, Mr. Eraldo Damosso, but he will transfer the money to IST as soon as he receives it, which means that it is expected to be possible to reimburse the travel expenses of this meeting in a relative short period.

7. Presentation and Discussion of Documents

A total of 26 Temporary Documents, which are listed in Annex B, were distributed to be discussed at the Plenary and at the three WGs, Annex C.

8. Liaisons with other International Bodies

Reports from the following liaisons were given:

- COST 260 - Prof. Emmanuel Van Lil (KU Leuven, B)
  Since there was a presentation by COST 260 Secretary, no further information was presented.
- SMT/METAMORP - Mr. Per Lehne (Telenor R&D, N)
  The METAMORP consortium had its latest meeting in Athens, 14-15th of December 1998. Main topics for the work is modelling, which has been input to the COST 259 SWG 2.1 on Directional channel models. The METAMORP project is ending in October 1999 and the consortium is considering to apply for a project in the 5th framework programme, IST.

9. Future Meetings and Workshop

The next meetings will be held according to the following:

- 8th MCM and Workshop, hosted by Tech. Univ. Vienna, in Vienna, Austria, from Tuesday - 1999/Apr/20 - 9:00 to Friday - 1999/Apr/23 - 17:00.
- 9th MCM, hosted by Tech. Univ. Delft, in Amsterdam, The Netherlands, from Thursday - 1999/Sep/23 - 9:00 to Friday - 1999/Sep/24 - 17:00.
- 10th MCM, hosted by Univ. Valencia, in Valencia, Spain, from Wednesday - 2000/Jan/19 - 9:00 to Friday - 2000/Jan/21 - 12:00.

The Workshop will take place on 1999/Apr/20-21, and it will be dedicated to "Spatial Channel Models and Adaptive Antennas". Prof. Ernst Bonek gave a brief presentation of the workshop organisation, including schedule and other arrangements: basically, there will be 4 invited speakers, and 15 papers from those that have been submitted. COST 260 has accepted our invitation, which means that it will be a Joint COST 259/260 Workshop, thus creating conditions for an increasing success of the workshop. All delegates were encouraged to submit papers to the workshop (Action Point 9).

The Chairman reminded that there will be Technical Sessions in VTC'99 Fall devoted to present the work of COST 259, and that all delegates were asked to submit papers (Action Point 6).

10. Any Other Business

Prof. Luis Correia thanked all delegates for, once more, having sent in advance to the Local Organiser the documents discussed in the meeting, and called the attention to the following:

- all delegates should check the List of Contacts, to make sure that the information concerning themselves is correct;
- those who still have not done it, should send the www address of their institution to the Webmaster (Action Point 1);
- those who still have not done it, should send the abstracts of the documents they have presented in meetings to the Webmaster (Action Point 2);
- all delegates should check the information contained in the Action www site, and send corrections to the Webmaster (Action Point 8);
- in order to prepare the proposal for extension, all delegates should send information, to the Secretary, on joint publications and collaborations within the Action (Action Point 3).

Following an invitation from COST 259 to attend the meeting, Dr. Peter Balling gave a presentation on COST 260 (from which he is the Secretary), to enable COST 259 participants to have a better understanding of the work being performed in that Action. Some discussion was held on common topics for collaboration between the two Actions, the Joint Workshop definitely being a good start for putting people together.

On behalf of Dr. Antoine Roederer (COST 260 Chairman), Dr. Peter Balling invited COST 259 to be part of the group of COST Actions that will participate in the AP2000 conference, to be held in Davos, Switzerland, by 9-14 Apr. 2000, referring that the TCT has already given its support to this participation. It was approved unanimously that COST 259 will joint this event.

Prof. Ernst Bonek announced that a new Sub-Working Group had been created within WG2, SWG 2.2, addressing "Test Methods for Handset Antennas", which is of great interest to both operators and manufacturers, besides universities. Mr. Matthias Schneider (IMST, D), its Chairman, gave a brief presentation of the objectives and work programme.

The Chairman reminded of the Action Points from this meeting:

No.	Action	Who	Deadline
1	Send information on www address to *Webmaster*	Those who still have not done it.	ASAP
2	Send files with abstracts of TDs to *Webmaster*	Those who still have not done it.	ASAP
3	Send list of publications related to COST 259 to *Secretary*	All	1999/Apr/01
5	Send reports from liaisons to *Chairman*	Liaisons raporteurs	1999/Feb/05
6	Submit papers to VTC'99 Fall	All	1999/Mar/01
7	Send proposals for short missions to *Chairman*	All	ASAP
8	Check information contained on the www site, and send corrections to *Webmaster*	All	ASAP
9	Submit papers to Joint Workshop	All	1999/Mar/12

11. Close of the Meeting

The meeting was attended by a total of 73 persons, Annex D. The Chairman thanked the Local Organiser for hosting the meeting, and all delegates for their participation, and formally closed it.

Annex A

Agenda

1• Opening formalities

2• Adoption of the Agenda

3• Approval of the minutes of the 6th Meeting in Duisburg

4• Status of the Action

5• COST 231 book

6• Budget and reimbursements

7• Presentation and discussion of documents

8• Liaisons with other international bodies

9• Future meetings and workshop

10• Any other business

11• Close of Meeting

Annex B

List of Documents

TD(99)	Title	Author(s)	Affiliation(s)	Country(ies)	WG
001	Comparison of Conventional and Advanced Receiver Concepts for the UTRA Downlink	A. Jarosch and D. Dahlhaus	ETHZ	Switzerland	1, 2
002	An Efficient Multiple Access protocol for Wireless Networks with non Homogenous Traffic	S. Ruiz, D. Covarrubias, I. Garcia and J. Olmos	UPC	Spain	1, 3
003	Comparison of Interactive Decoder Performance with Union Bounds for short Frame Turbo-Codes	A. Burr and G.P. White	University of York	United Kingdom	1
004	Application of a Novel Technique for Polarisation Matrix Investigations in Personal Communication Pico Cell Environments	T. Neubauer and P. Eggers	Technical University of Vienna / Aalborg University	Austria / Denmark	2
005	Simple Engineering Expressions to Predict the Specific Attenuation of a Tree	S.A. Torrico and R.H. Lang	Comsearch / The George Washington University	Ireland / USA	2
006	Fast 3-D ray Tracing for the Planning of Microcells by Intelligent Preprocessing of the Data Base	R. Hoppe, G. Wolfle and F.M. Landstorfer	University of Stuttgart	Germany	2, 3
007	Applicability of Semi-empirical Propagation Models for path loss prediction in Urban Microcells	G. Orties	Deutsche Telekom	Germany	2
008	Prediction of the Field Strength Inside Buildings with Empirical, Neural, and Ray-Optical Prediction Models	G. Wolfle and F.M. Landstorfer	University of Stuttgart	Germany	2
009	Statistical analysis of Measured Short-Term Impulse Response Functions of 1.88 GHz Radio Channels in Stockholm with Corresponding Channel Model	A.A. Glazunov and J.-E. Berg	Ericsson Radio Systems	Sweden	2
010	CDMA Rake Receivers Performance Evaluation Using a Wideband Channel Model	A.A. Glazunov and J.-E.	Ericsson Radio Systems	Sweden	Pl.
011	Randomised Generation of Realist Spatial Teletraffic Distributions for Frequency Planning Simulations	T. Kürner	E-Plus Mobilfunk	Germany	3
012	Analysis of C/I-Ratio Thresholds for Frequency Planning	A. Einsenblatter, T. Kürner and R. Faub	ZIB / E-Plus Mobilfunk	Germany	3

TD(99)	Title	Author(s)	Affiliation(s)	Country(ies)	WG
013	Directional 3D Real-Time Dual-Polarised Measurement of Wideband Mobile Radio Channel	K. Kalliola	Nokia Research Center	Finland	2
014	Synchronisation and Channel Estimation for Single Carrier Modulation with Frequency Domain Equalisation and Antenna Diversity	A. Czylwik	Deutsche Telekom	Germany	1, 2
015	The SAMBA Trial Platform: Initial Results	J. Fernandes, M. Dinis, M. Prögler, W. Herzig and J. Zubrzycki	Universidade of Aveiro / Portugal Telecom / Daimler-Benz / BBC	Portugal / Germany / United Kingdom	Pl.
016	Performance of Lens Antennas in Wireless Indoor Millimetre Wave Applications	C. Fernandes and J. Fernandes	IST / Universidade of Aveiro	Portugal	2
017	Impact of Shaped Lens Antennas on MBS Systems	J. Fernandes and C. Fernandes	IST / Universidade of Aveiro	Portugal	2
018	Consideration of the Spatial Interference Covariance Matrix in Multiantenna TD-CDMA-Systems	M. Weckerle, A. Papathanassiou and R. Schmalenberger	University of Kaiserlautern	Germany	1, 2
019	Indoor Penetration and Interference Studies	B. Gavilanes, I. de Coster, E. Van Lil and F. Pérez-Fontan	K.U. Leuven / University of Vigo	Belgium / Spain	2, 3
020	Characterisation and Simulation of the 18 GHz Radio Channel	J. de Nijs, K. Witrisal and R. Prasad	Delft University of Technology	The Netherlands	2
021	Propagation and Standardisation Issues for Digital 42 GHz Microwave Video Distribution System (MVDS)	A. Hayn and R. Jakoby	Technical University of Darmstadt	Germany	Pl.
022	Half- Compensation Power Control Over SFH Mobile Radio Systems	M. Chiani, A. Conti, R. Verdone and A. Zanella	University of Bologna	Italy	3
023	Simple Smart Antenna Models for System Level Simulation of Advanced Handover and Channel Allocation Protocols	J. Steuer, T. Giese and K. Jobman	University of Hanover	Germany	2, 3
024	Wideband Indoor Propagation Measurements with Direction of Arrival Estimations in the 5 GHz Band	J. Kivinen, X. Zhao and P. Vainikainen	Helsinki University of Technology	Finland	2
025	An Analytical Approximation of the TIM Look-up Table	L. Rossi, P.J. Cullen and C. Brennan	Trinity College Dublin	Ireland	2
026	On the Basics Requirements for Test Methods for Handset Antennas	B. Olsson	Telia Research	Sweden	2

Annex C

Sessions Schedule

Time	Wednesday	Thursday
9:00 / 10:30	**Plenary**	**Plenary**
11:00 / 12:30	**WGs 1, 2, 3**	**Plenary**
14:00 / 15:30	**Plenary**	**Plenary**
16:00 / 17:30	**Plenary**	**Plenary**

Annex D

Attendance List

Country	Name	Institution
Austria	Ernst Bonek	INTHF - TU Wien
	Andreas Molisch	INTHF - TU Wien
	Thomas Neubauer	INTHF - TU Wien
	Martin Steinbauer	INTHF - TU Wien
Belgium	Emmanuel Van Lil	Katholieke Universiteit Leuven
Denmark	Jens Erfurt Andrésen	Tele Danmark
	Peter Balling	Antenna System Consultant
Finland	Kimmo Kalliola	Helsinki University of Technology
	Jarmo Kivinene	Helsinki University of Technology
	Kalle Kresi	Nokia
	Pertti Makikyro	Nokia
	Jaakko Talvitie	Elektrobit
France	Jose Baro	Alcatel
	Cyril Delemazure	TDF-C2R
	Sylvie Tiertant	TDF-C2R
	Raphael Visoz	France Telecom - CNET
Germany	Andreas Czylwik	Deutsche Telekom
	Andreas Eisenblaetter	ZIB
	Tobias Giebel	Technical University of Braunschweig
	Andreas Hayn	Technical University of Darmstadt
	Hans Heller	Siemens
	Martin Hellerbrandt	RWTH Aachen
	Reinner Hoppe	University of Stuttgart
	Thomas Kuerner	E-Plus Mobilfunk
	Nadja Lohse	Technical University of Dresden
	Gerd Ortgries	Deutsche Telekom
	Joerg Pamp	IMST
	Andreas Schmidbauer	Technical University of Munich
	Matthias Schneider	IMST
	Jan Steuer	University of Hanover
	Martin Weckwrle	University of Kaiserslautern
	Gerd Woelfle	University of Stuttgart
Greece	Evi Anthaki	Aristotle University of Thessaloniki
	George Baloumenidis	Aristotle University of Thessaloniki
	Tassos Bereketidis	Aristotle University of Thessaloniki
	Philippos Constandinou	National Technical University of Athens
	Thanassis Kanatas	National Technical University of Athens
	Grigoris Karakasis	Aristotle University of Thessaloniki
	Kyriaki Karakatsani	Aristotle University of Thessaloniki
	Penelope Koutroubi	Aristotle University of Thessaloniki
	Mathiopoulos	Aristotle University of Thessaloniki

	Evangelos Papapetrou	Aristotle University of Thessaloniki
	Dimitrios Papatheodorou	Aristotle University of Thessaloniki
	Niovi Pavlidou	Aristotle University of Thessaloniki
Ireland	Cyril Burkley	University of Limerick
	Peter J. Cullen	Trinity College Dublin
	Saul A. Torrico	Comsearch
Italy	Stefano Felizi	Ericsson Radio Systems
	Maurizio Magarini	Politecnico di Milano
	Claudio Mattielo	CSELT
	Marcello Sant' Agostino	Italtel
	Alberto Zanella	University of Bologna
The Netherlands	Mark Van Den Homberg	KPN Research
	Jan De Nijs	Delft University of Technology
Norway	Per H. Lehne	Telenor R & D
	Olaf Rostbakken	Telenor R & D
Poland	Marcin Ney	PTK Centertel
Portugal	Luis M. Correia	IST - Technical University of Lisbon
	José Fernandes	University of Aveiro
	António Rodrigues	IST - Technical University of Lisbon
Slovenia	Gorazd Kandus	Institut Jozef Stefan
Spain	Silvia Ruiz-Boque	Universitat Politécnica de Catalunya
	Alejandro Becerra	Telefonica I&D
Sweden	Christian Bergljung	Telia Research
	Olle Edvardson	Allgon
	Andreas A. Glazunov	Ericsson Radio Systems
	Bo Olsson	Telia Research
Switzerland	Ralf Heddergott	ETH Zurich
	Andreas Jarosch	ETHZ
	Jean-Frederic Wagen	Swisscom
United Kingdom	Stephen K. Barton	University of Leeds
	Alister Burr	University of York
	Luke Ibbetson	Vodafone
	Paul Sheehan	Aethos Communication