

Information and Brokerage Conference on Information and Communication Technologies in the EU's 7th Framework Programme

Information document

INFORMATION AND BROKERAGE CONFERENCE

21-22 October 2008

PROJECT PRESENTATIONS AND BILATERAL CONSULTATION MEETINGS WITH EUROPEAN COMMISSION OFFICIALS

23 October 2008

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European Commission
Information Society and Media



21-23/10/2008 MOSCOW • FP7 ICT



VENUE

The venue for the Conference will be The Hilton Moscow Leningradskaya-Hotel , 21/40 Kalanchevskaya St., 107078 Moscow, Russia.

ATTENDANCE

The attendance for the Conference is by invitation only and entrance is free of charge. Complimentary lunches and refreshment breaks will be provided by the European Commission, Directorate General Information Society and Media (DG INFSO) for the duration of the Conference.

CONTEXT

The Russian Federation (RF) and the European Union (EU) have substantial scientific capital in the area of ICT Research that could be shared for the benefit of both. A number of successful joint events were organised last year in Moscow, both to provide information and facilitate cooperation in ICT research between our respective stakeholders. However, in order to enhance even further our future cooperation, a more overarching event, with the participation of a wider range of key stakeholders from Russia and the EU, needs to be organised. In this context, a joint three day Conference will take place in Moscow on 21-23 October 2008 with a larger number of key participants than ever before. For both Russians and Europeans, this event could open access to high quality expertise and resources in the areas of interest to both parties.

OBJECTIVE

- To familiarise the participants with the RTD capabilities of the participating organisations;
- To identify areas of common interest in the area of ICT;
- To explore the potential for developing joint project proposals for submission in the forthcoming calls;
- To allow both EU and Russian participants to consult specialist Commission officials on Technical and administrative matters including project proposal preparation;
- To provide a platform for the presentation of FP6 and FP7 projects in the area of ICT.

DESCRIPTION

The European Commission together with the Russian National Contact Point (NCP) for ICT is organising a three day Conference in Moscow in October 2008. The event will consist of two parts: 1) Information and Brokerage event that will take place on 21-22 October 2008 and 2) Project presentations and Bilateral Consultation meetings with European Commission officials that will take place on 23 October 2008.

1) The Information and Brokerage event will consist of a Plenary session during the morning of the first day followed by five Parallel sessions and time for bilateral meetings. The second day will continue with Parallel sessions, allowing time for bilateral meeting and ending with a Plenary Session.

In the first Plenary session Russian and EU officials will present their respective relevant funding Programmes and explain the strategic RTD directions that both parties are following in the area of ICT RTD.

The Parallel sessions are divided into sub-sessions dedicated to particular topics. During the parallel sessions the EU and Russian participants will present their organisation, research activities and the areas where cooperation is sought. The participants will be encouraged to share project ideas.

Both the Plenary and the Parallel Sessions will be co-chaired by Commission and Russian Officials. A rapporteur will draft the summary and the main conclusions of each session particularly identifying

areas of potential cooperation. During the concluding Plenary session the co-chairmen of each parallel session will present areas identified for co-operation and if applicable the project ideas identified.

Facilities will be provided for refreshments and bilateral meetings. During these bilateral meetings the participants will be encouraged to develop project ideas and to form embryonic consortia.

2) Project presentations and Bilateral Consultation meetings with European Commission officials will allow participants to present their projects and to discuss matters related to the FP7 ICT Theme in general and the development of project proposals.

The plenary session for project presentations will run for the whole day in parallel with the Bilateral Consultation meetings. The participants will be invited to present, in sessions of 15 minutes followed by 5 minutes time for questions, existing FP7 ICT Theme projects or relevant Russian projects or even project ideas.

For the Bilateral Consultation meetings, it is envisaged that each area presented in the Conference plus administrative and regulatory matters will be covered by the appropriate European Commission officials.

TARGET AUDIENCE

The Conference targets an audience of 150 to 200 representatives (at the level of project manager, head of laboratory, etc.) from European and Russian organisations (multinationals, SMEs, academia, research institutes & laboratories, etc.) specialising in the addressed research areas on which the Conference will be focusing (see below)

FOCUS AREAS

- 1. Nanoelectronics**
- 2. Micro-nano Systems**
- 3. Embedded Systems, Computing and Control¹:**
- 4. Photonics**
 - a. Organic photonics
 - b. Technologies and materials at the limits of light-matter interaction in nanophotonics
 - c. Photonics technologies, components and (sub)systems
- 5. ICT for Transport**
- 6. Future and Emerging Technologies:**
 - a. FET-Open
 - b. FET-Proactive

¹ The Embedded Systems, Computing and Control Parallel Session has been organised with the assistance of the NESTER project (Networked Embedded and control Systems Technologies for Europe and Russia).

BRIEF DESCRIPTION OF THE FOCUS AREAS

The final allocation of Parallel sessions will depend on the number of participants attending each area (objective).

1. S1 – Nanoelectronics

- a. Advanced Nanoelectronics Devices and Processes
 - i. e.g. Advanced silicon and carbon based devices, including modelling, simulation and processing;
- b. Heterogeneous Integration and Application Driven Technologies
 - i. e.g. Modelling, design and processing of 3D technologies, components and circuits for harsh environments, heterogeneous systems;
- c. Flexible and Sustainable Manufacturing
 - i. e.g. Disruptive equipment & materials solutions, including process, metrology, analysis and manufacturing of monolithically and heterogeneously integrated components.

2. S2 –Micro-nano Systems

- a. Microsystems And Smart Miniaturised Systems
 - i. Heterogeneous Integration: integrated and interfaced multiple core technologies and related materials for the next generation of Microsystems and smart miniaturised systems.
 - ii. Autonomous energy efficient smart systems.
 - iii. Microsystems addressing the following application sectors: biomedical, telecommunications, smart fabrics and interactive textile (SFIT), transport safety and security, environment and food/beverage.
- b. Flexible, Organic and Large Area Electronics
 - i. Co-development of processes, materials and devices for the fabrication of organic, flexible, heterogeneous and large-area electronic components.
 - ii. Flexible or foil-based systems using the building blocks based on organics, inorganics or their combination, homogeneous process integration of different functionalities complemented by heterogeneous component integration and 3D functional foil integration
- c. Manufacturing and Processing
 - i. Advanced Microsystems manufacturing technologies for the whole value chain. Integration of multiple elements of the value chain of heterogeneous systems -materials, modelling, design, processes, devices, packaging, characterisation, testing - contributing to a more efficient manufacturing

3. S3 – Embedded Systems, Computing and Control²:

- a. Real time software tools and their integration and platform based design:
 - i. Methods and tools for productivity, composability, dependability, safety and security; low power consumption; validation; adaptivity and self-awareness;

integrated design environments; design tools, interoperability for design space exploration; standardisation; technologies for efficient resource management and advanced model-driven development.

- b. Design and Engineering of monitoring and control for complex/ large scale systems, including wireless sensor networks:
 - i. Modelling and design of next generation robust, self-adaptive networked large-scale systems; sensing, control, decision-making and smart actuation; architectures, integration of heterogeneous networked smart objects (e.g. in spontaneous cooperation); lightweight operating systems and kernels; open wireless protocols for harsh environments; wireless sensor networks; optimisation of large-scale dynamic systems and proactive process automation; advanced algorithms, architectures and platforms going beyond SCADA and DCS; Standardisation
- c. Multi-core and re-configurable computer architectures, programmability, compilation, tools and simulation:
 - i. Automatic parallelisation and beyond; high-level programming languages; homogeneous or heterogeneous multi-core and/or reconfigurable architectures; operating systems; testing, verification and debugging; continuous adaptation beyond the separation between compiler, runtime and hardware; virtualisation; legacy issues; machine abstractions and performance models; fast system simulation and analysis; tools and compilers for next-generation semiconductor fabrication technology

4. S4 – Photonics

- a. Photonic technologies, components and (sub) systems
 - i. Communication and Networks; Lighting and light sources, displays: LEDs and LED-based lighting systems, solid state lasers; Biophotonics: molecular and functional imaging, minimally-invasive and point of care diagnosis and treatment monitoring; imaging for safety and security: CMOS-compatible image sensors, pixel detector arrays; highly integrated components for high average and high peak power lasers, e.g. fibres and fibre lasers with integrated functions, diode lasers with new functions integrated in the semiconductor.
- b. Organic photonics
 - i. e.g. organic, polymer, single molecule and carbon-nanotube based photonic components, organic-inorganic hybrid components; OLEDs, OLEFETs, and lasers for lighting, illumination, projection or display applications, organic photovoltaic cells, light guiding structures, organic photonic sensors, lasers and amplifiers
- c. Other disruptive photonic technologies, technologies and materials at the limits of light-matter interaction in nanophotonics
 - i. e.g. sub-wavelength structures, plasmonics, control of the quantum degrees of freedom, metamaterials, photonic crystals, biological systems

5. S5.1-2 – ICT for Transport

- a. ICT for Intelligent Vehicle Systems
 - i. Road safety; in-vehicle safety systems; autonomous driving; crash avoidance (including sensor and sensor networks); traffic situation detection (including vulnerable road users); technologies for addressing digital footprint, data security and privacy of in-vehicle applications.
- b. ICT for Clean and Efficient Mobility
 - i. Energy efficiency; energy-efficient driving (eco-driving) based on on-board systems and/or co-operative infrastructure and energy-optimized, adaptive traffic control and management technologies; systems for urban areas and inter-urban road networks; impact of advanced ICT in energy efficiency and CO2 reduction.
- c. Field Operational Tests for Integrated Safety Systems and Co-operative Systems
 - i. Assessment of the efficiency, quality, robustness and user-friendliness of close-to market systems; analysis of user acceptance, performance and benefits for road safety and efficiency of both autonomous on-board and co-operative systems; impact of integration of in-vehicle safety systems with the co-operative systems including naturalistic driving tests.
- d. ICT-based Systems and Services for Smart Urban Mobility and New Mobility Concepts
 - i. Environmental footprint and safety of mobility; demand management; moving from restrictive to permissive systems; ICT tools for logistics optimized for urban environments; use of ICT for replacing mobility (virtual mobility, telepresence).

S5.3-4 – Future and Emerging Technologies(FET):

a. FET-Open

- i. FET-Open represents a bottom-up and continuously open scheme, which serves to encourage and support new ideas with long-term visionary impact on Information and Communication Technologies (ICT).
- ii. FET-Open targets foundational breakthroughs that open the way towards radically new forms and uses of information and information technologies. Research supported under FET-Open is aimed at achieving a first proof-of-concept and at developing its supporting scientific foundations. The scope of FET-Open research projects, which are thematically unrestricted, aims to bridge between long-term visionary perspectives on the one hand, and a well focused research objective on the other hand. FET-Open also targets support and coordination activities, such as the stimulation the emergence and shaping of new research communities, of relevance for high-risk and high-impact visionary researchFET-Proactive

b. FET-Proactive

The Future and Emerging Technologies (FET) sessions may address the following topics not exclusively:

- i. Quantum Information processing and communication
 - 1. Towards a quantum computer: Physical implementations of entangled qubits in systems based on trapped ions, on neutral atoms, molecules and cavity QED, on superconducting circuits, on semiconductor quantum dots, on linear optics, impurity spins, or on other systems,
 - 2. Entanglement enabled technologies like quantum number generators, improved atomic clocks, metrology, sensors and imaging,

3. Quantum repeaters for communication, interconversion of different types of qubits,
4. Quantum information theory, algorithms and paradigms
- ii. Molecular and atomic ICT devices and systems
 1. Molecular computation, single molecule memories, molecule-based sensors, and scalable, functional arrays of molecules
 2. Supporting technologies such as measurement and control systems as well as modelling and simulation tools
 3. Radically new approaches of molecular information processing e.g. non-charge based approaches or self-assembling structures
 4. Energy harvesting technologies and local storage below the micrometer scale, utilising kinetic energy or potential energy present in the form of random fluctuations, ambient electromagnetic radiation, chemical energy or others
- iii. BIO-ICT?
- iv. Embodied Intelligent Agents
- v. other topics?

STRUCTURE

09:00-09:10	Opening Session	
09:10-09:40	Keynotes	
09:40-12:30	ICT/FP7 Information Session	
12:30-14:00	Lunch and Networking	
14:00-15:30	S1.1	S2.1 S3.1 S4.1 S5.1
15:30-16:30	Bilateral Meetings and Refreshments	
16:30-18:00	S1.2	S2.2 S3.2 S4.2 S5.2
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08:30-10:30	S1.3	S2.3 S3.3 S4.3 S5.3
10:30-11:30	Bilateral Meetings and Refreshments	
11:30-12:30	S1.4	S2.4 S3.4 S4.4 S5.4
12:30-14:00	Lunch and Networking	
14:00-15:30	S1.5	S2.5 S3.5 S4.5 S5.5
15:30-16:30	Bilateral Meetings and Refreshments	
16:30-17:30	Closing Session	
17:30-18:30	Bilateral Meetings and Refreshments	
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09:00-10:30	Project Presentations	Consultation Meetings with EC officials
10:30-11:30	Refreshment Break and networking	
11:30-12:30	Project Presentations	Consultation Meetings with EC officials
12:30-14:00	Lunch and Networking	
14:30-15:20	Project Presentations	Consultation Meetings with EC officials
15:20-16:20	Refreshment Break and networking	
16:20-17:50	Project Presentations	Consultation Meetings with EC officials

DAY 1

DAY 2

DAY 3

CONFERENCE PROGRAMME

DAY 1 	
Co-Chairmen: Stephan PASCALL, Adviser, EC, DG INFSO	
08:30-09:00	Registration and Welcome Refreshment
09:00-09:10	Introduction by the Co-chair Persons <i>(Stephan PASCALL, Adviser, European Commission, DG INFSO)</i>
09:10-09:20	Welcome address by Marc FRANCO <i>(Ambassador, Head of the Delegation of the European Commission to Russia)</i>
09:20-09:35	Russian Keynote speech <i>(Mr. A. Khlunov, The Deputy Minister of Education and Science of the Russian Federation) to be confirmed</i>
09:35-09:50	EU Keynote speech <i>(Antti Ilmari PELTOMAKI, Deputy Director General, European Commission, DG INFSO)</i>
09:50-10:05	to be confirmed <i>(Yakov Shraiberg, Russian National Public Library for Science and Technology)</i>
10:05-10:25	EU Russian RTD co-operation: Status and Prospects <i>(Richard BURGER, Science Counsellor, Delegation of the European Commission to Russia)</i>
10:25-10:40	Information and Communication Technologies in Programmes of RAS 2008-2012 <i>(Mr. Vladimir Ivanov, Deputy General Scientific Secretary of the Russian Academy of Science)</i>
10:40-11:10	Refreshment Break
11:10-11:40	Orientations of the Work Programme 2009-10 of the 7 th Framework programme ICT Theme <i>(André VITS, Head of Unit "ICT for Transport", European Commission, DG INFSO)</i>
11:40-12:10	How to participate in the FP7 ICT Theme <i>(Morten MOLLER, Head of Unit "ICT operations", European Commission, DG INFSO)</i>
12:10-12:25	The role of the Russian Contact Point for the ICT Theme <i>(Alexander BERIEV, Director, Institute of Operating Systems, Russian Contact Point for ICT FP7)</i>
12:25-12:30	Closing remarks <i>(Stephan PASCALL, Adviser, European Commission, DG INFSO)</i>
12:30-14:00	Lunch Break and Networking

PARALLEL SESSIONS

Sub-Slot 1 (14:00-15:30) Duration 1h30	R&D and Innovation in the Technology Nanoelectronics Chain RU Chair: Acad. Alexander A. ORLIKOVSKY, Director, Institute of Physics and Technology, RAS EU Chair: Dr. Georg KELM, Head of Sector, EC, DG INFOS Rapporteur: Prof. Lothar PFITZNER, Head of Dept, FhG-IISB, Germany	Micro-nano Systems RU Chair: Peter MALTSEV, Head of Sector, Applicational Problems Sections, RAS EU Chair: Henri RAJBENBACH, Project Officer, EC, DG INFOS Rapporteur: Raquel LOPEZ LOZANO, Project Officer, EC, DG INFOS	Embedded Systems, Computing and Control RU Chair: Prof. Andrey N. TEREKHOV, CEO of Tercom EU Chair: Panagiotis TSARCHOPOULOS, Project Officer, EC, DG INFOS Rapporteur: Elena Panteley, Researcher, Laboratoire des Signaux et Systèmes, CNRS, Supélec	Photonics RU Chair: Prof. I.B. KOVSH, President of Laser Association EU Chair: Prof. François FLORY, Directeur de Centrale Marseille Recherche et Technologies, Ecole Centrale Marseille Rapporteur: Christoph HELMRATH, Project Officer, EC, DG INFOS	ICT for Transport RU Chair: Michael RUFITSKY, Director of Scientific-Technological Centre, JSC "Zavod Avtopribor" EU Chair: André VITS, Head of Unit, EC, DG INFOS Rapporteur: Vladimir Kryuchkov, PAIRP Secretary General
Location	ORLIKOV 7	ORLIKOV 4	ORLIKOV 5	Grand Ballroom	ORLIKOV 6
14:00-14:05	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons
14:05-14:15	Dr. N. Shelepin, (<i>Mikron, Zelenograd, RF</i>)	H. Rajbenbach (<i>European Commission, Belgium</i>)	K. de Bosschere (<i>University of Ghent, Belgium</i>)	Prof. I.B. Kovsh (<i>Laser Association, RF</i>)	
14:15-14:25	Dr. M. Schrems (<i>AMS, Austria</i>)		Prof. Y. Sheinin (<i>Aerospace Instrumentation, RF</i>)	Prof. F. Flory (<i>Centrale Marseille R&T, France</i>)	Boris Tziklis, (<i>Federal Agency "Direction of the program of increasing road safety" RF</i>)
14:25-14:35	Dr. V. Ovchinnikov (<i>Photomask Center, Zelenograd, RF</i>)	P. Maltsev (<i>Applicational Problems Sections, RAS, RF</i>)	Prof. V. Skliarov (<i>University of Aveiro, Portugal</i>)	Dr. O. Okhotnikov (<i>Optoelectronics, Research Center, Finland</i>)	Dr. A. de la Fortelle (<i>Robotics Lab, France</i>)
14:35-14:45	J. Back (<i>Micronic, Sweden</i>)	P. Keating (<i>Yole Finance, France</i>),	A. Terentiev (<i>Radio Systems Foundry Labs, RF</i>)	Dr. O. Antipov (<i>Institute of Applied Physics of Russian Academy, RF</i>)	Pavel Koslov, (<i>Centre of Traffic management of Moscow City Government, RF</i>)
14:45-14:55	Prof. A. Gorbatsевич (<i>Science @ Edu Center RAS, St. Petersburg, RF</i>)		Dr. G. Fursin (<i>Inria, France</i>)	Dr. H. G. Limberger (<i>Ecole Polytechnique Federal, Switzerland</i>)	Prof. Dr. U. Brannolte, (<i>Bauhaus University Weimar, Germany</i>)
14:55-15:05	Prof. E. Parker (<i>Warrick University, UK</i>)	Dr. S. Sukhoveyev (<i>MIREA, RF</i>)	Prof. A. Boukhanovsky (<i>St. Petersburg State University of Information Technology, RF</i>)	Dr. V. Mashinsky (<i>Fiber Optics Research Center/ FORC, RF</i>)	Prof. O. Salychev (<i>TeKnoL LLC, RF</i>)

15:05-15:15	Dr. V.M. Pudalov (Lebedev Phys. Institute, RAS, RF)	Dr. K. Zinoviev (Institute of Microelectronics of Barcelona, Spain)	Nikolay Pakulin (Institute for System Programming RAS, RF)	Dr. M. Santagiustina (University of Padova, Italy)	Prof. Boris Sokolov (St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences (SPIIRAS))
15:15-15:25	H. Kundert (SEMI-Europe, Belgium)	V. Pokrovsky (Russian Academy of Sciences, RF)	Prof. M. Valero (Barcelona Supercomputing Center, Spain)	Questions and answers	V. Tyulyupin, (M2M Telematica, RF)
15:25-15:30	Conclusion for the Sub-slot	Conclusion for the Sub-slot	Conclusion for the Sub-slot	Conclusion for the Sub-slot	Conclusion for the Sub-slot
15:30-16:30	Bilateral Meetings* and Refreshment Break				
PARALLEL SESSIONS					
Sub-Slot 2 (16:30-18:00) Duration 2h	Nanoelectronics RU Chair: Acad. Alexander A. ORLIKOVSKY, Director, Institute of Physics and Technology, RAS EU Chair: Georg KELM, Head of Sector, EC, DG INFSO Rapporteur: Lothar PFITZNER, Head of Dept, FhG-IISB, Germany	Micro-nano Systems RU Chair: Peter MALTSEV, Head of Sector, Applicational Problems Sections, RAS EU Chair: Henri RAJBENBACH, Project Officer, EC, DG INFSO Rapporteur: Raquel LOPEZ LOZANO, Project Officer, EC, DG INFSO	Embedded Systems, Computing and Control RU Chair: Prof. Andrey N. TEREKHOV, CEO of Tercom EU Chair and Rapporteur: Panagiotis TSARCHOPOULOS, Project Officer, EC, DG INFSO Rapporteur: Elena Panteley, Researcher, Laboratoire des Signaux et Systèmes, CNRS, Supélec	Photonics RU Chair: Prof. I.B. KOVSH, President of Laser Association EU Chair: Prof. François FLORY, Directeur de Centrale Marseille Recherche et Technologies, Ecole Centrale Marseille Rapporteur: Christoph HELMRATH, Project Officer, EC, DG INFSO	ICT for Transport RU Chair: Michael RUFITSKY, Director of Scientific-Technological Centre, JSC "Zavod Avtopribor" EU Chair: André VITS, Head of Unit, EC, DG INFSO Rapporteur: Vladimir Kryuchkov, PAIRP Secretary General
Location	ORLIKOV 7	ORLIKOV 4	ORLIKOV 5	Grand Ballroom	ORLIKOV 6
16:30-16:35	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons
16:35-16:45	Dr. O. Ivanov (RusNano, RF)	L. Heinze (VDI/ VDE-IT, Germany)	C. Fague (Esterel, France)	G. Slekyš (Altechna Co. Ltd., Lithuania)	Dr. K.-H. Haase (Optical Sensor Technology, Germany)
16:45-16:55	Prof. O. Engström (Chalmers Univ., Sweden)	Sergey Gerasimov (OMMIC, RF)	Dr. M. Maslov (Russian Association of Electronic Producers, RF)	Dr. S.N. Sokolov (INJECT Enterprise, RF)	Ad Bastiaansen, (Road Group Holding, Netherlands)
16:55-17:05	Oleg Snigirev (Faculty of Physics M.V. Lomonosov Moscow State University, RF)	M. Wiemer (Fraunhofer Institute Reliability and Microintegration, Germany)	Dr. A. Smiljanic (Belgrade University, Serbia)	Prof. E.A. Romanova (Saratov State University, RF)	R. Harder (Bauhaus University Weimar, Germany)

17:05-17:15	A. Despotuli <i>(Microelectr. Inst. RAS, RF)</i>	E. Gornev <i>(ELPA, RF)</i>	M. Osipov <i>(Siemens, RF)</i>	Dr. Alexey Boreisho <i>(Laser Systems, RF)</i>	Dr. V. Bukov <i>(FSUE Institute of Aircraft Equipment, RF)</i>
17:15-17:25	Dr. M. Baklanov <i>(IMEC, Belgium)</i>	J. Bruland <i>(Noliac Motion, Denmark)</i>	A. Petrov <i>(St Peterburg University of IT, RF)</i>	Prof. Sergei Turitsyn <i>(Photonics Research Group, Aston University, UK)</i>	Igor Schagaev <i>(London Metropolitan University)</i>
17:25-17:35	Prof. G. Goltsman <i>(Radio-Physics Center, Pedag. State Univ., RF)</i>	V. Bekker <i>(Robert Bosch, RF)</i>	I. Voevodin <i>(Astrakhan University, RF)</i>	Dr. A. Shamray <i>(Information Optics Ltd., RF)</i>	EU A. Weiss von Trostprugg <i>(Altea, Italy)</i>
17:35-17:45	Prof. P. Pavan <i>(IU-Net & Modena University, Italy)</i>	Dr. M. Krebs <i>(Varta, Germany)</i>	B. Lunn <i>(Amideon Systems, RF)</i>	Alexander Nikiforov <i>(Institute of Semiconductor Physics, RF)</i>	V. Devyatkov <i>(Bauman Moscow State Technical University, RF)</i>
17:45-17:55		Alexey Krayev, Yuri Verevkin <i>(IAP RAS, RF)</i>	V. Shishkin <i>(Ulyanovsk University, RF)</i>	Questions and answers	Conclusion for the Sub-slot
17:55-18:00	Conclusion for the Sub-slot	Conclusion for the Sub-slot	Conclusion for the Sub-slot	Conclusion for the Sub-slot	

END of DAY 1

DAY 2

PARALLEL SESSIONS

Sub-Slot 3 (08:30-10:30) Duration 2h	Industry Meets Academia in Nanoelectronics RU Chair: <i>Acad. Alexander A. ORLIKOVSKY, Director, Institute of Physics and Technology, RAS</i> EU Chair: <i>Dr. Georg KELM, Head of Sector, EC, DG INFOS</i> Rapporteur: <i>Prof. Lothar PFITZNER, Head of Dept, FhG-IISB, Germany</i>	Micro-nano Systems RU Chair: <i>Peter MALTSEV, Head of Sector, Applicational Problems Sections, RAS</i> EU Chair: <i>Henri RAJBENBACH, project Officer, EC, DG INFOS</i> Rapporteur: <i>Raquel LOPEZ LOZANO, Project Officer, EC, DG INFOS</i>	Embedded Systems Computing and Control RU Chair: <i>Prof. Andrey N. TEREKHOV, CEO of Tercom</i> EU Chair and Rapporteur: <i>Panagiotis TSARCHOPOULOS, Project Officer, EC, DG INFOS</i> Rapporteur: <i>Elena Panteley, Researcher, Laboratoire des Signaux et Systèmes, CNRS, Supélec</i>	Photonics RU Chair: <i>Prof. I.B. KOVSH, President of Laser Association</i> EU Chair: <i>Prof. François FLORY, Directeur de Centrale Marseille Recherche et Technologies, Ecole Centrale Marseille</i> Rapporteur: <i>Christoph HELMRATH, Project Officer, EC, DG INFOS</i>	Future and Emerging Technologies (FET) FET OPEN RU Chair: XXX EU Chair: <i>Ales FIALA, Head of Unit, EC, DG INFOS</i> Rapporteur: <i>Aymard DE TOUZELAIN, Deputy Head of Unit, EC, DG INFOS</i>
Location	ORLIKOV 7	ORLIKOV 4	ORLIKOV 5	Grand Ballroom	ORLIKOV 6
08:30-08:35	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons
08:35-08:45	Dr. V. Dshkhunyan (<i>Angstrom, RF</i>)	H. Rajbenbach (<i>European Commission, Belgium</i>),	Prof. A. Terekhov (<i>Lanit-Tercom, RF</i>)	Dr. A. Tchelnokov (<i>CEA Grenoble, France</i>)	Presentation of FET: Ales Fiala, <i>Head of Unit, EC, DG INFOS</i> ;
08:45-08:55	Dr. H. Schaber/I. Zverev (<i>Infineon, Germany</i>)	H. Kopola (<i>VTT, Finland</i>)	A. Platunov (<i>St. Petersburg State University, RF</i>)	Dr. Prof. I.N. Kompanets (<i>P.N. Lebedev Physical Institute, RAS, RF</i>)	Wolfgang Boch, <i>Head of Unit, EC, DG INFOS</i> ; Aymard De Touzelain, <i>Deputy Head of Unit, EC, DG INFOS</i> David Guedj, <i>Project Officer, EC, DG INFOS</i>
08:55-09:05	Dr. V. Statsenko (<i>EPIEL, RF</i>)	Victor Timoshenko (<i>Moscow State University, RF</i>)	Dr. E. Gonzalez (<i>University of Bochum, Germany</i>)	Dr. Y.V. Orlovskii (<i>General Physics Institute, RAS, RF</i>)	Olga Petrenko (<i>Institute for system Programming RAS, RF</i>)
09:05-09:15	B. van Nooten (<i>ASM, Netherlands</i>)	Lars Heinze (<i>VDI/ VDE-IT, Germany</i>)	Z. Khasbulatov (<i>Bevalex, RF</i>)	Dr. Mikhail Gan (<i>Sankt Peterburg State University, RF</i>)	Victor Erokhin (<i>Department of Physics, University of Parma, Italy</i>)
09:15-09:25	Dr. V. Nosik (<i>Kurchatov Institute, Moscow, RF</i>)	Tatiana Berzina (<i>Department of Physics, University of Parma, Italy</i>)	I. Chubukova (<i>Bauman Moscow State Technical University, RF</i>)	Dr. Anna Sytchkova (<i>ENEA, Italy</i>)	Yuri Maksimenko (<i>Independent researcher, RF</i>)

09:25-09:35

Dr. S. Deleonibus
(CEA-LETI, France)

Ivan
Bobrinetkiy,
Vladimir
Nevolin
(MIET, RF)

A. Sanchez
(EECI, France)

Dr. Gennady
Baranov
*(Efremov
Scientific
Research
Institute, RF)*

Dr. S. Kernbach
*(University of
Stuttgart,
Germany)*

PARALLEL SESSIONS					
Sub-Slot 4 (11:30-12:30) Duration 1h	Nanoelectronics RU Chair: <i>Acad. Alexander A. ORLIKOVSKY, Director, Institute of Physics and Technology, RAS</i> EU Chair: <i>Dr. Georg KELM, Head of Sector, EC, DG INFSO</i> Rapporteur: <i>Prof. Lothar PFITZNER, Head of Dept, FhG-IISB, Germany</i>	Micro-nano Systems RU Chair: <i>Peter MALTSEV, Head of Sector, Applicational Problems Sections, RAS</i> EU Chair: <i>Henri RAJBENBACH, Project Officer, EC, DG INFSO</i> Rapporteur: <i>Raquel LOPEZ LOZANO, Project Officer, EC, DG INFSO</i>	Embedded Systems Computing and Control RU Chair: <i>Prof. Andrey N. TEREKHOV, CEO of Tercom</i> EU Chair: <i>Panagiotis TSARCHOPOULOS, Project Officer, EC, DG INFSO</i> Rapporteur: <i>Elena Panteley, Researcher, Laboratoire des Signaux et Systèmes, CNRS, Supélec</i>	Photonics RU Chair: <i>Prof. NIKITOV, Vice Director, Institute of Radio-engineering and Electronics, RAS</i> EU Chair: <i>Prof. François FLORY, Directeur de Centrale Marseille Recherche et Technologies, Ecole Centrale Marseille</i> Rapporteur: <i>Christoph HELMRATH, Project Officer, EC, DG INFSO</i>	Future and Emerging Technologies (FET) FET Proactive RU Chair: XXX EU Chair: <i>Wolfgang BOCH, Head of Unit, EC, DG INFSO</i> Rapporteur: <i>David GUEDJ, Project Officer, EC, DG INFSO</i>
Location	ORLIKOV 7	ORLIKOV 4	ORLIKOV 5	Grand Ballroom	ORLIKOV 6
11:30-11:35	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons
11:35-11:45	Prof. A. Efremov (Dept Dev&Mats, Ivanovo U., RF)	Alexander Basaev (Deputy Director, SMC) - tbc	A. Fradkov (IPME RAS St Petersburg, RF)	Dr. D. Rogatkin (Moscow Regional Research and Clinical Institute, RF)	V. Bekker (Robert Bosch, RF)
11:45-11:55	Prof. L. Pfitzner (Fraunhofer-IISB, Germany)	Igor Godovitsyn (SMC "Technological Centre" of MIET, RF) -tbc-	E. Panteley (Supelec, France)	Prof. L. Bolotine (Research Center for Automatic Control/ CNRS, France)	V. Zaripova (Astrakhan State University, RF)
11:55-12:05	K. Constantinian (IRE RAS, RF)	Vladimir Amelichev, SMC "Technological Centre" of MIET, RF) tbc	Dr. S. Bogoslovsky (JSC "Radarmms", RF)	Dr. V. Sidorov (SPE "LAZMA", Ltd., RF)	I. Voevodin (Astrakhan State University, RF)
12:05-12:15	Prof. E. Kasper (Stuttgart Univ., Germany)		Dr. A. Pavlov (NTNU, Norway)	Dr. E. Rafailov (School of Engineering and Physics, UK)	Igor Kotenko (Computer Security Research Group SPIIRAS, RF)
12:15-12:25	Prof. V. Lukichev (Inst. Phys. & Technol., RAS)			Dr. A. Ivanov (N.N. Blokhin Cancer Research Center, RF)	O. Kozhunova (Institute for Informatics Problems, RAS, RF)
12:25-12:30	Conclusion for the Sub-slot	Conclusion for the Sub-slot	Conclusion for the Sub-slot	Conclusion for the Sub-slot	Conclusion for the Sub-slot

12:30-14:00	Lunch Break and Networking				
PARALLEL SESSIONS					
Sub-Slot 5 (14:00-15:30) Duration 1h30	Nanoelectronics RU Chair: <i>Acad. Alexander A. ORLIKOVSKY, Director, Institute of Physics and Technology, RAS</i> EU Chair: <i>Dr. Georg KELM, Head of Sector, EC, DG INFSO</i> Rapporteur: <i>Prof. Lothar PFITZNER, Head of Dept, FhG-IISB, Germany</i>	Micro-nano Systems RU Chair: <i>Peter MALTSEV, Head of Sector, Applicational Problems Sections, RAS</i> EU Chair: <i>Henri RAJBENBACH, Project Officer, EC, DG INFSO</i> Rapporteur: <i>Raquel LOPEZ LOZANO, Project Officer, EC, DG INFSO</i>	Embedded Systems Computing and Control RU Chair: <i>Prof. Andrey N. TEREKHOV, CEO of Tercom</i> EU Chair and Rapporteur: <i>Panagiotis TSARCHOPOULOS, Project Officer, EC, DG INFSO</i> Rapporteur: <i>Elena Panteley, Researcher, Laboratoire des Signaux et Systèmes, CNRS, Supélec</i>	Photonics RU Chair: <i>Prof. NIKITOV, Vice Director, Institute of Radio-engineering and Electronics, RAS</i> EU Chair: <i>Prof. François FLORY, Directeur de Recherche et Technologies, Ecole Centrale Marseille</i> Rapporteur: <i>Christoph HELMRATH, Project Officer, EC, DG INFSO</i>	Future and Emerging Technologies (FET) FET Proactive RU Chair: XXX EU Chair: <i>Wolfgang BOCH, Head of Unit, EC, DG INFSO</i> Rapporteur: <i>David GUEDJ, Project Officer, EC, DG INFSO</i>
Location	ORLIKOV 7	ORLIKOV 4	ORLIKOV 5	Grand Ballroom	ORLIKOV 6
14:00-14:05	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons	Introduction by the Co-chair Persons
14:05-14:15	Dr. T. Makhviladse (<i>Inst. of Physics & Technol., RAS</i>)	Jean Bruland (<i>R&D Manager, Noliac A/S, Denmark</i>) Autonomous wireless sensor system (high temperature)	Dr. Y. Mitrishkin (<i>Bauman Moscow State Technical University, RF</i>)	Prof. Alexei Vitukhnovsky (<i>P.N. Lebedev Physical Institute of RAS</i>)	Dr. I. Stara (<i>Academy of Sciences of the Czech Republic, Czech Republic</i>)
14:15-14:25	G. Silberer (<i>EVGroup, Austria</i>)	Harri Kopola (<i>Center for Printed Intelligence VTT Technical Research Centre Finland</i>) Novel nanoparticulate materials for printed electronics, optoelectronics and sensors	Prof. J. L. Martinez Lastra (<i>Tampere University of Technology, Finland</i>)	Dr. Alexey Melnikov (<i>MELTRIS Ltd, RF</i>)	Dr. E. Il'ichev (<i>IPHT, Germany</i>)

14:25-14:35	Prof. L. Kuzmin <i>(Chalmers Univ., Sweden)</i>	Dr. Vadim Pokrovskii <i>(Kotel'nikov Institute of Radioengineering and Electronics, RAS)</i> Microscanning optical projectors actuated by quasi one-dimensional conductors	V. I. Gorodetsky <i>(St. Petersburg Institute for Informatics and Automation of RAS, RF)</i>	Dr. W. Whelan-Curtin <i>(University of St Andrews, UK)</i>	Dr. M. Santagiustina <i>(University of Padova, Italy)</i>
14:35-14:45	Dr. R. Scholz <i>(IHP, Germany)</i>	S. Sukhoveyev <i>(Moscow State Institute of Radioengineering, Electronic and Automatic)</i> MEMS and NEMS on basis of Fibrous Composites	Marija Sola <i>(BOSIO, Slovenia)</i>	Dr. E. Obraztsova <i>(Russian Academy of Sciences, RF)</i>	Prof. B. Gurovich <i>(RRC "Kurchatov Institute", RF)</i>
	Prof. S. Mantl <i>(FZ Juelich, Germany)</i>		Dr. M. Ignatiev <i>(Baikov's Institute of Metallurgy, RF)</i>	Dr. V.S. Pavelyev <i>(Russian Academy of Sciences, RF)</i>	Dr. A. Ustinov <i>(University of Karlsruhe, Germany)</i>

Prof. A. Ivanov
(Electro-Tech. Univ, St Petersburg, RF)

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DAY 3 – Plenary Session Project Presentations and Bilateral Consultation Meetings with European Commission officials

Plenary Session - Project presentations		Bilateral Consultation Meetings with European Commission officials				
08.30-08.40	Introduction by <i>Stephan PASCALL, Adviser, EC, DG INFSO</i>					
08.40-08.50	F. Balestra <i>(Enserg, France)</i> NoE NANOSIL (FP7) and SINANO Institute	Nanoelectronics	FP7-ICT Theme Rules and procedures <i>Morten MOLLER, Head of Unit "ICT operations"</i>	Nanoelectronics <i>Georg KELM, Head of Sector, EC, DG INFSO</i>	Micro-nano Systems <i>Henri RAJBENBACH, Project Officer, EC, DG INFSO</i>	Photonics <i>Christoph HELMRATH, Project Officer, EC, DG INFSO</i>
08:50-09:00	L. Pfitzner <i>(FhG-IISB, Germany)</i> IP SEANET (FP6)					
09:00-09:10	A. Nasiopoulou <i>(IMEL, Greece)</i> DUALLOGIC (FP7)					
09:10-09:20	Prof. Kasper <i>(Stuttgart Univ., Germany)</i> Self-Organised Nanostructures (FP7)					
09:20-09:30	Paolo Pavan <i>(IU.NET):</i> Deca-nanometer CMOS; SNW, CNT; Nonvolatile memories; PCM; NROM/SONOS.					
09:30-09:40	Olof Engstrom <i>(Chalmer University of Technology):</i> 1 High-k materials for future gate stacks; 2 Preparation and investigation of quantum dot structures					
09:40-09:50	Dr. Vyurkov <i>(Inst. Phys. Technol., RF)</i> Quantum simulation of field effect transistors					
09:50-10:00	J. Back <i>(Micronic, Sweden)</i> Cooperation in high end mask manufacturing					

10:00-10:10	Korneev <i>(Moscow State Pedagogical University)</i> 1 Quantum cryptography 2 Unamplified long-distance optical communication					
10:10-10:20	Dr. L. Kuzmin <i>(Chalmers University)</i> Cold electron bolometers and other					
10:20-11:20	Refreshment Break and Networking					
11:20-11:30	Dr. H. G. Limberger <i>(Ecole Polytechnique Federal, Switzerland)</i> Bi-doped optical fibers: Photosensitivity, luminescence active centers, gain, and application	Photonics	FP7-ICT Theme Rules and procedures <i>Morten MOLLER, Head of Unit "ICT operations"</i>	Nanoelectronics <i>Georg KELM, Head of Sector, EC, DG INFSO</i>	Micro-nano Systems <i>Henri RAJBENBACH, Project Officer, EC, DG INFSO</i>	Photonics <i>Christoph HELMRATH, Project Officer, EC, DG INFSO</i>
11:30-11:40	Dr. T. Lipinskas <i>(Altechna Co. Ltd., Lithuania)</i> Actively Q-switched Minilaser					
11:40-11:50	Oleg Antipov <i>(Institute of Applied Physics of Russian Academy of Science):</i> Novel mid-IR solid-state lasers for environmental and medical applications					
11:50-12:00	Dr. Mikhail Gan <i>(Sankt Peterburg State University, RF)</i> Research and development of phase controlling system for nanoimaging DUV optics					

12:00-12:10	Dr. E. Rafailov <i>(School of Engineering and Physics, UK)</i> Fast Dot (FP7)					
12:10-12:20	Dr. W. Whelan-Curtin <i>(University of St Andrews, UK)</i> ePIXnet (FP6)					
12:20-12:30	Dr. A. Tchelakov <i>(CEA Grenoble, France)</i> PhotonFab (FP7)					
12:30-14:00	Lunch Break and Networking					
14:00-14:10	Dr. A. Shamray <i>(Information Optics Ltd., RF)</i> A novel modulation format based on the change of an optical spectrum shape	Photonics				
14:10-14:20	Henry Boesel <i>(Carl Zeiss Optronics GmbH)</i> AMASS / Aim					
14:20-14:30	Dr. D. Rogatkin <i>(Moscow Regional Research and Clinical Institute, RF)</i> Biophotonics/medical Project					
14:30-14:40	Prof. L. Bolotine <i>(Research Center for Automatic Control/ CNRS, France)</i> Photodynamic therapy (PDT)	Photonics				
14:40-14:50	I. Sildos <i>(University of Tartu, Estonia)</i> Optical nanofibres		Embedded Systems, Computing and Control	ICT for Transport	Future and Emerging Technologies *FET Open	Future and Emerging Technologies *FET Proactive
14:50-15:00	Remi Demerle , <i>(Automotive & ITS, France)</i> eCall tests in Europe, ideas and solutions for GNSS tolling systems	ICT for Transport	<i>Panagiotis TSARCHOPOULOS, Project Officer, EC, DG INFSO</i>	<i>André VITS, Head of Unit, EC, DG INFSO</i>	<i>Ales FIALA, Head of Unit, EC, DG INFSO</i>	<i>Wolfgang BOCH, Head of Unit, EC, DG INFSO</i>
15:00-15:10	S. Stevenin <i>(MIZAR, Italy)</i> SWARCO					
15:10-15:20	Questions					

15:20-16:20	Refreshment Break and Networking					
16:20-16:30	Prof. Oleg Salychev <i>(Bauman Moscow State Technical University and University of Calgary, Technical director in TeKnol LLC)</i> GNSS-aided inertial navigation system	ICT for Transport				
16:30-16:40	Heinz Sodeikat <i>(Germany)</i> Increased safety through speed and red light enforcement					
16:40-16:50	Igor Schagaev <i>(London Metropolitan University)</i> Theory and implementation of active systems (TIAS); Control reconfigurable aircraft network (CRAN); Active black box (ABB)					
16:50-17:00	Grigori Fursin <i>(Research Scientist at INRIA, France)</i> MILEPOST Project: Machine Learning for Embedded Programs Optimisation	Embedded Systems	Embedded Systems, Computing and Control <i>Panagiotis TSARCHOPOULOS, Project Officer, EC, DG INFSO</i>	ICT for Transport <i>André VITS, Head of Unit, EC, DG INFSO</i>	Future and Emerging Technologies *FET Open <i>Ales FIALA, Head of Unit, EC, DG INFSO</i>	Future and Emerging Technologies *FET Proactive <i>Wolfgang BOCH, Head of Unit, EC, DG INFSO</i>
17:00-17:10	Valeri Skliarov <i>(Electronics, Telecommunications and Informatics Department (DETIUA), University of Aveiro, Portugal)</i> Reconfigurable architectures and design methodology for FPGA-based self-testable embedded systems					
17:10-17:20	Alexander Petrenko <i>(Software Engineering)</i>					

	<p><i>Department, Institute for system Programming RAS, RF)</i> Linux Drivers Verification</p>				
17:20-17:30	<p>Yuri V. Mitrishkin <i>(Bauman Moscow State Technical University (BMSTU):</i> Development, Modeling, and Application of Embedded Control Systems for Dynamical Plants</p>				
17:30-17:40	<p>Dr. Serge Kernbach <i>(University of Stuttgart, Germany)</i> Large-Scale Integrated Projects "I-Swarm" and "Symbrion"</p>	Future and Emerging Technologies			
17:40-17:50	<p>Olga Kozhunova <i>(Institute for Informatics Problems of the Russian Academy of Sciences (IPI RAN)</i> ICT goal-oriented impacts on emerging knowledge and tracing its evolution in evaluation system</p>				
17:50-18:00	<p>Victor Erokhin <i>(Department of Physics, University of Parma, Italy)</i> BION: Synthetic pathways to bio- inspired information processing</p>				
18:00-18:10	<p>Dr. A. Ustinov <i>(University of Karlsruhe)</i> SCOPE and MIDAS (2008-2011)</p>				
18:10-18:20	Questions				
18:20-18:30	Closing remarks by <i>Stephan PASCALL, Adviser, EC, DG INFSO</i>				

END OF DAY 3