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| **Speaker Biographies & Presentation Information** | | | |
|  | **Mr. Niels Peter Skov Andersen**  Car-2-Car Communication Consortium General Manager and ETSI Board Member | | Mr. Andersen acts as General Manager of the Car-2-Car Communication Consortium, a key contributor to the ITS standardisation in ETSI and including most major Car OEMs in Europe and their suppliers. He previously held senior positions within Research in Motion, Qualcomm and Motorola where he was heavily involved in Standards Development and technology strategy. Mr. Andersen has been a very active participant within various ETSI and 3GPP groups having chaired ETSI TC ITS and 3GPP SA amongst others. Mr. Andersen holds a Master of Science Degree in Electric Engineering. |
| ***Main principles covering C-ITS and ITS goals and features; towards future requirements for automated driving*** | | |
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|  | **Mr. Francesco Bernabei**  Numbering Expert, AGCOM Italy and Chairman of ECC/WG NaN / Project Team Future Numbering Issues (PT FNI) | | Mr. Bernabei has worked in AGCOM (the National Communications Regulatory Authority of Italy) since 2001 and is also chairman of Project Team Future Numbering Issues having been appointment to the post in October 2014. In AGCOM, he is in the unit dealing with numbering, number portability and new services. His experience in AGCOM is related also to work in the areas of network security, the regulatory regime for authorisation and quality of service. Prior to his time in AGCOM Mr. Bernabei worked for FUB, a research institute supporting the Italian Telecommunication Ministry. For approximately 15 years he lead FUB’s group "Architectures of telecommunication networks". |
| ***Main M2M-related issues currently under consideration on the work programme of the ECC/WG NaN’S Project Team on Future Numbering Issues*** | | |
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|  | **Mr. Colin Chandler**  Director, Business Development at Qualcomm Europe and 450 MHz Alliance, Chair, Standards and Regulatory Group | | With more than 30 years’ experience in the mobile communications industry, Mr. Chandler has been active in both the operator and manufacturer communities. Since joining Qualcomm Europe in 1998, he has been involved in the UMTS/WCDMA standardisation process through his participation in ETSI and 3GPP. More recently Mr. Chandler has represented Qualcomm in a number of industry bodies including the UMTS Forum and the 450 MHz Alliance. Since leaving Qualcomm in early 2015 Mr. Chandler has continued his role with the 450 MHz Alliance and is also an independent consultant in mobile communications. |
| ***LTE450 as a solution for M2M/IoT applications*** | | |
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| Mike Corkerry | **Mr. Mike Corkerry**  **Executive Director, EMEA Government Affairs, AT&T** | | Mr. Corkerry heads the external and regulatory affairs function for AT&T’s EMEA (Europe, Middle East and Africa) Region. Based in London, he is responsible for coordinating AT&T’s regulatory affairs, public policy and government advocacy in the Region. Prior to this, he performed a similar role at Concert, the AT&T/BT global venture.  Mr. Corkerry joined BT in 1980 and worked in a number of BT functions in the UK and continental Europe, including Regulatory Affairs, Corporate Strategy, Strategic Relations and Business Development. Between 1994 and 1997 he was based in BT’s Brussels office where he was responsible for relations with key EU institutions.  Mr. Corkerry currently serves on the Board of Directors of the UK Competitive Telecommunications Association (UKCTA) and BritishAmerican Business. |
| ***Presentation examining the use of national numbering resources as a preferred option for meeting the requirements of today’s M2M business model for delivery of services in a globally consistent manner*** | | |
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|  | **Mr. Didier Chauveau**  Deputy Director of Spectrum Planning and International Affairs, ANFR | | Mr. Chauveau is Deputy Director of Spectrum Planning and International Affairs at l’Agence National des Fréquences (ANFR-France) and head of European Affairs. He contributes to the drafting of RSPG opinions and reports and is currently involved in the RSPG’s ad hoc group on “Future Demand for Spectrum for Wireless Broadband”. He leads the French delegation at the Radio Spectrum Committee and at the CEPT/ECC. Mr. Chaveau chairs the ECC PT1, which is the leading group in Europe for frequency harmonisation for mobile systems, and the ECC CPG PTD, which prepared CEPT positions on Agenda items 1.1 and 1.2 of the WRC-15. He is also member of the ECO Council.  Before joining ANFR in 2007 Mr. Chaveau worked for ARCEP, the French regulator for Post and Electronic communications. Between 1999 and 2006, he was a member of the ETSI Board holding the position of vice-chairman for a two-year period. |
| ***Keynote 2 – IMT Matters*** | | |
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|  | **Dr. Simon Dunkley**  European Regulatory Director for Silver Spring Networks Ltd | | Dr. Dunkley has worked with Silver Spring Networks Ltd at the company’s London office since 2011. He is actively engaged in both CEPT SE24/SRD/MG and ETSI TG28 and was closely involved with studies to investigate the release of the 870/915MHz band; indeed his contribution to the utility community for this work was recognised in him being named as one of the ‘40 Most Influential People in European Smart Grid’ in 2015 by Metering and Smart Energy International.  Dr. Dunkley was educated in the respective Physics departments of London’s Imperial College and the University of Cambridge. |
| ***Metropolitan/rural area networks*** | | |
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|  | **Mr. Eric Fournier**  Chairman of the Electronic Communications Committee (ECC), L'Agence Nationale des Fréquences (ANFR), France | | Mr. Fournier is Director for Spectrum Planning and International Affairs in l’Agence Nationale des Fréquences (ANFR), the public Agency in charge of spectrum management in France.  Mr. Fournier is Chairman of the European Conference of Postal and Telecommunications’ Electronic Communication Committee (CEPT/ECC) and a graduate of l’Ecole Supérieure d’Electricité (SUPELEC). |
| ***Welcome & Opening of Workshop, Session F and Closing Session Chairman*** | | |
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|  | **Mr. Adrian Grilli**  Technical Advisor, European Utilities Telecom Council | | Mr. Grilli is Managing Director of the Joint Radio Company Ltd (JRC) based in London. JRC is a joint venture between National Grid and the UK Energy Networks Association, representing UK gas and electricity generation, transmission and distribution industries’ radio communications interests. JRC’s prime responsibility is to manage radio spectrum used by these industries to support critical network operations.  As the importance of utility communications networks has grown, JRC has become increasingly active internationally, participating in a number of European and international groups investigating communications and spectrum options for smart grids.  Mr. Grilli is a past chairman of the UK Federation of Communications Services, on the Board of the European Utilities Telecommunications Council and a regular contributor to the US Utility Telecom Council. He is a Chartered Engineer and Member of the Institutions of Mechanical Engineers and Engineering & Technology. |
| ***Smart Grid Systems and Other Radio Systems suitable for Utility Operations, and their long-term spectrum requirements*** | | |
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|  | **Dr. Rüdiger Hahn**  Head of Department - Legal Aspects of Telecommunications and Frequency Regulation, Federal Network Agency, Germany ( BNetzA). | | In 1990 Dr. Hahn entered into the service of the Federal Ministry of Posts and Telecommunications and until 1992 he was the Assistant Head of Section “Principles of Regulation”. From 1993 Dr. Hahn was the Assistant Head of Section “Legal Aspects of Regulation” and from 1996 he was the Head of Section “Mobile and Satellite Communications”.  From 1998 Dr. Hahn was the Head of Division “Regulation and Licences” at the Regulatory Authority for Telecommunications and Posts and since 2001 he has been the Director, Head of Department “Legal Aspects of Telecommunications Regulation, Frequency Regulation” at the Federal Network Agency. |
| ***Welcome & Opening of Workshop*** | | |
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|  | **Mr. Roland Hechwartner**  Deutsche Telekom, oneM2M Technical Plenary Vice-Chairman | | Mr. Hechwartner works at Deutsche Telekom Group technology, in the Standardisation and IPR Management Department where he is responsible for standardisation activities in the service domain.  Mr. Hechwartner joined the department of systems engineering of max.mobil. (later T-Mobile Austria) in 1999 as project manager for mobile data solutions. Since 2005 he has been working in several standardization groups and served as member of the board of directors of OMA. |
| **oneM2M partnership project (goals, achievements etc.)** | | |
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|  | **Dr. Hamid Karimi**  Director, Corporate Strategy Department  Huawei Technologies | | Dr. Karimi is Director at Huawei Technologies’ Corporate Strategy Department, with focus on technology standards and spectrum regulation. Until recently, he was Technical Policy Director at the UK communications regulator, Ofcom, with responsibilities in a range of spectrum management initiatives, including a review of the UK’s licence exemption framework, the auction of spectrum for 4G mobile communications at 800 MHz/2.6 GHz, and database-assisted access to TV white space spectrum. Previously, Mr. Karimi was with Bell Laboratories at Lucent Technologies, and Motorola GSM Products Division. He is the author of over sixty publications in international conferences and peer-reviewed journals, and is co-inventor in over thirty patents. He is also a visiting professor at Imperial College, London. |
| ***Technology and spectrum for M2M communications*** | | |
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|  | **Mr. Jamshid Khun-Jush**  Qualcomm | | Mr. Khun-Jush received his BS, Dipl.-Ing. and Dr.-Ing. Degrees in electrical engineering. Since 2003, he is with Qualcomm in Nuremberg, Germany. He was Qualcomm representative at 3GPP TSG RAN4 until 2008 and afterwards has been leading Qualcomm’s overall ETSI activities. In this capacity, he coordinates activities of Qualcomm in different technical bodies. In addition, he is technical lead for Qualcomm’s Spectrum Engineering work in international and regional organizations as CEPT/ECC, ITU-R, Asia-Pacific Wireless Group, etc. Before joining Qualcomm, he was with Ericsson Research, Corporate Unit in Nuremberg, Germany leading physical layer research and engineering work related to broadband wireless local area networks and acted as the company’s representative for standardisation activities on broadband wireless networks in relevant standards bodies and fora. He chaired ETSI Technical Committee BRAN from 1999 to 2002 and is an ETSI Board member since 2011. Mr. Khun-Jush has served during the last 20 years as a Technical Program Committee member of international conferences such as IEEE ICC, IEEE PIMRC, IEEE WCNC etc., has given lectures or organized panels at these conferences. |
| ***Wideband SRDs with advanced spectrum sharing capability*** | | |
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|  | **Dr. Julia Marquier,**  Federal Network Agency, Germany and member of the BEREC drafting team on M2M/IoT | | Dr. Julia Marquier studied law in Bonn, Dresden and Paris and joined Bundesnetzagentur in 2013 as a legal expert having previously worked as an antitrust lawyer and in-house counsel in Brussels, Copenhagen, Bonn and Frankfurt from 2004-2013. Within Bundesnetzagentur, Dr. Marquier works as a numbering expert. |
| ***BEREC Report on "Enabling the Internet of Things***  This Report analyses the necessary preconditions for IoT services to thrive and covers a broad range of issues that may impact on their development. | | |
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| Robert MacDougall | **Mr. Robert MacDougall**  Head of Enterprise Regulation, Vodafone Group | | Mr. MacDougall is Head of Enterprise Regulation at Vodafone Group, where he leads on all regulatory and policy matters relevant to Vodafone’s enterprise activity. Robert has spent the majority of his career in electronic communications regulation, including eight years at the UK’s Communications Regulator Ofcom (and its predecessor Oftel) in a variety of roles involving policy development, dispute resolution and also competition enforcement. Prior to joining Vodafone, he was an Assistant Director at the UK’s Competition and Consumer Protection Authority. This included a secondment to the US Federal Trade Commission as an FTC International Fellow. Robert has a primary degree in Law and a Masters degree in Information Technology and Telecommunications Law. He is currently Chair of the Alliance for Internet of Things Innovation (AIOTI) Policy Working Group, an initiative which has been set up by the European Commission to support policy and dialogue within the Internet of Things ecosystem. |
| ***Creating a Digital Single Market for M2M and the Internet of Things***  Vodafone’s presentation will focus on:  • Market context  • Risks and Opportunities  • Policy Recommendations | | |
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|  | **Mr. Freddie McBride**  European Communications Office  Expert, Numbering & Networks | | Mr. McBride is the European Communications Office’s expert on Numbering & Networks and plays an active role within CEPT’s Working Group on Numbering & Networks (WG NaN) where national administrations from 48 countries in Europe collaborate on harmonised policy development.  Prior to his role at the ECO he worked at the Commission for Communications Regulation (ComReg), the National Regulatory Authority of Ireland for 6 years, with responsibility for the management and development of the national telephone numbering plan and other forward-looking activities aimed at fostering competition, innovation and consumer choice in communications networks and services.  Since 1998, he has worked in various engineering and project management roles for companies such as Ericsson and LogicaCMG. He is a business graduate with a Masters in Computing and Information Systems and a Professional Diploma in Regulatory Governance. |
| ***eCall – A case study on the numbering requirements***  eCall represents a unique M2M numbering challenge for Europe where over 13 million vehicles will require numbering resources every year from 2018. The ECO’s presentation will provide some insights on the planning and logistical challenges. | | |
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|  | **Dr. Sergey Pastukh**  Deputy Head of EMC Department of Radio Research and Development Institute (NIIR) | | Dr. Pastukh received his diploma degree in telecommunications in 1985 from Kiev Higher Engineer Radio-Technical School (KVIRTU) and obtained his PhD degree (Adaptive system in HF band, radar signal adaptation) in 1997 from 5th Central Military Research Institute. In 2001 he joined NIIR and worked in the field of spectrum management. He is Chairman of ITU-R Study Group 1 (Spectrum management), and Chairman of ECC Working Group Frequency Management. Dr. Pastukh has been awarded number of patents and authored more than 100 papers and presentations. |
| ***View of the Russian CEPT Administration*** | | |
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|  | **Mr. Olivier Pellay**  L'Agence Nationale des Fréquences (ANFR), France | | Mr. Pellay is an Engineer graduated from the Conservatoire National des Arts et Métiers – Paris (France). He has been employed in ANFR for over 15 years. During 10 years, he developed his experience in frequency spectrum monitoring activities. He is currently engaged in frequency management in France in the field of Short Range Devices (SRD) and other licence-exempt radio devices including RFID and UWB devices. In this regard he is involved in relevant ITU-R, CEPT and ETSI activities in order to adapt frequency spectrum regulations for SRDs to respond to new needs and frequency usage challenges while taking into account new technologies. |
| ***View of the French CEPT Administration*** | | |
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| http://www.worldsmartweek.com/photos/piednoir_xavier.jpg | **Mr. Xavier Piednoir**  ETSI Technical Officer Smart Card Platform and 3GPP CT6 | | Mr. Piednoir is the Technical Officer to the ETSI Technical Committee Smard Card Platform. Xavier graduated in 2000 from l’Ecole Nationale Supérieure d'Ingénieurs de Caen where he was a computer science student with a special focus on Monetics and Network Security. Prior to his role within ETSI, Xavier worked in France Telecom’s R&D division for 6 years where he developed his skills as a smart card expert by providing support and internal consulting for both local and international mobile subsidiaries. In addition, he was actively involved in developments in Near Field Communications and mobile ticketing and was the the voice of both France Telecom and its mobile subsidiary Orange in in standardisation activities taking place within ETSI TC SCP and 3GPP CT6. |
| ***Standardisation of the embedded SIM for M2M/IoT*** | | |
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|  | **Dr. Benoît Ponsard**  Director of Standardization in SIGFOX | | SIGFOX is the world's leading provider of dedicated connectivity for the Internet of Things. Before joining SIGFOX at the end 2014, Dr. Ponsard spent most of his career in the telecom industry where he held various R&D positions within major worldwide companies. From 2004 to 2010, Dr. Ponsard was appointed as a professor in Grenoble University (France), where he conducted research projects in the field of sensor networks. In 2009, he founded Kimeggi, a consulting company specialized in innovation for machine connectivity. Dr. Ponsard is graduate l’Ecole Superieure d'Electricité (France) and holds a Masters degree in Telecommunications. He obtained his PhD from Telecom ParisTech (France) in 1991. |
| ***Low power wireless networks connecting objects of the IoT*** | | |
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|  | **Ms Cristina Reis**  Spectrum planning engineer, ANACOM, Portugal and Vice Chairman of ECC Working Group Frequency Management (WGFM) | | Cristina Reis joined the Portuguese Regulatory Authority for Communications (ANACOM) in 2004 and is working in the Frequency Management Department. She has been involved in various national frequency management projects, including the management of the National Table of Frequency Allocations, the revision of the National Civil/Military Frequency Agreement and led the national preparation for ITU-R World Radio Conferences. She has been engaged in several international meetings at CEPT (WGFM), ITU-R (WRC-07, WRC-12 and WRC-15) and NATO (FMSC/PWG, NC3B CaP3) and since 2011 she is the vice Chairman of ECC Working Group Frequency Management (WGFM). |
| ***Session E Chairman*** | | |
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|  | **Mr. Joachim Sachs**  Principal Researcher, Ericsson Research, Stockholm. | | Mr. Sachs is a principal researcher at Ericsson Research in Stockholm working on future wireless communication systems. After studies in Germany, France, Norway and Scotland, he received his diploma and doctorate degrees from Aachen University and the Technical University of Berlin respectively. He joined Ericsson in 1997, and was a visiting scholar at Stanford University in 2009. Since 1995 he has been active in the IEEE and the German VDE Information Technology Society (ITG), where he is currently co-chair of the technical committee on communication networks and systems. In 2006, he received the Ericsson inventor of the year award, and in 2010 the research award of the Vodafone foundation for scientific research. Mr. Sachs has served on numerous technical program committees, has co-organised conferences and workshops and has served as evaluator for the accreditation of a university degree program. |
| ***Wireless solutions for machine-centric communications for the Internet of Things, connected devices and industrial applications*** | | |
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|  | **Ms. Christiane Seifert**  International Frequency Matters, Federal Network Agency, Germany | | Ms Christiane Seifert, M.A., is a Senior Legal Adviser for Spectrum Policy at the Federal Network Agency for Electricity, Gas, Telecommunications, Post and Railway (BNetzA), Deputy head of Section “Radio Frequency Utilisation Concepts, International Affairs, Frequency Plan, Innovative Radio Applications”. Her core responsibilities cover strategic national and European frequency concepts. She is representing Germany in CEPT ECC, the ECC Working Group Frequency Management and in the activities of the EU Radio Spectrum Policy Group.  She is further experienced in several areas of BNetzA, worked for many years in the litigation unit, and as assessor in the Ruling Chamber which approved the rates for access to the power supply grids. |
| ***View of German CEPT Administration*** | | |
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|  | **Dr. Michael Sharpe**  European Telecommunications Standards Institute (ETSI) | | Dr. Sharpe received his PhD from the University of Essex in the UK. Since then, he has worked at BBC Television, Ford Motor Company and the UK Radiocommunications Agency before joining ETSI in 1995. At ETSI he has occupied several roles, including Vice-President of ETSI Standardisation Projects, Director of Technical Strategy and most recently Director of Spectrum and Equipment Regulation.  In his current role, Dr. Sharpe is responsible for ensuring effective co-operation of ETSI’s technical activities with the work of key regulatory bodies and partner standards bodies at the National, European and Global level. His current priorities include working with the European Commission to ensure the smooth introduction of the Radio Equipment Directive, and the continuing close co-operation with CEPT and the Commission Radio Spectrum Unit to ensure that ETSI Harmonized Standards and Regulations on radio frequency use are developed in a co-ordinated and effective manner. |
| ***An overview of ETSI activities in the field of M2M/IoT and related radio solutions*** | | |
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|  | **Dr. Bernd Sörries**  University of Applied Sciences Südwestfalen, Germany | | Dr. Sörries has studied Public Policy and Management at the University of Constanze and the University of Gothenburg. He holds a Ph.D. in social sciences. He is Visiting Lecturer (Telecommunication Law and Economics) at the University of Applied Sciences Südwestfalen. Beside his research activities he acts as a consultant. Since 2009 Dr. Sörries is Chairman of the Information and Telecommunication Committee of the German Association of the Chambers of Industry and Commerce (DIHK). |
| ***Intelligent Energy Networks – Application scenarios, requirements and projects (incl. migration CDMA towards LTE, LTE MTC etc.)*** | | |
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|  | **Stephen Talbot**  International Policy Manager, OFCOM, United Kingdom | | Stephen Talbot is currently Head of International Spectrum Policy in the Strategy, International, Technology and Economists team of Ofcom (UK) and has been in that position for 2 years. He was the Head of Delegation to CPM15-2 and Deputy Head to WRC-15. Previous to working on international matters Stephen worked in the team concerned with the UK spectrum award of the 10, 28, 32 and 40 GHz bands. Stephen holds an HNC in electronic and electrical engineering, and has been with Ofcom since its inception in December 2003. Previous to Ofcom, Stephen worked at the Radiocommunications Agency (the Government predecessor to Ofcom) in a number of posts; Radio Investigation and Monitoring, Satellite and Space Sciences and the International Regulation Team. |
| ***View of the United Kingdom CEPT Administration and panellist*** | | |
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|  | **Mr. Kristian Baasch Thomsen**  Kamstrup A/S, Denmark, Product Manager, Metering Systems HCW | | Mr. Thomsen is a specialist in regulatory affairs and standardisation in Electromagnetic Compatibility, EMC and Electrical safety. He is an active member of the Danish committees S-650 & S-710, EMC, since 2007 and of CISPR, IEC TC77 and CENELEC TC210. |
| ***Smart Metering and Smart Grid Solutions*** | | |
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|  | **Mr. Enrico Tosato** | | Mr. Tosato since 1984 is Coordinator of the Radiocommunications Sector of ANITEC (Italian trade industry association). He is responsible on Regulatory and Standardization spectrum issues and especially on Short Range Devices. He actively supports and closely collaborates on any drafting regulatory primary or secondary legislation on radiocommunications of the Italian Telco Administration.  Some key facts   * Since 1990 Chairman of ETSI ERM TG28 group dealing with (generic) Short Range Devices standardization; this including EN 300 220 Standard for SRDs in the 25-1000MHz (for ever ETSI down load best seller); * Since 1996, DigitalEurope (EU - ICT Industry Association) appointed SRDs representative Officer to CEPT (especially to SRD-MG & SE24) and EU Commission. |
| ***Home Building Automation integrated with Smart Metering as part of the IoT*** | | |
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|  | | **Mr. Ulrich Rehfuess** | Ulrich holds a diploma degree in Electrical Engineering of Technical University of Munich, Germany and one in Industrial Engineering of Fernuniversität Hagen, Germany. Of his 25 years of professional experience in Siemens, Nokia Siemens Networks and Nokia Networks, he spent close to 20 years in R&D, business strategy, system architecture and product management of mobile radio network systems covering GSM, EDGE, UMTS with HSPA, Flash OFDM, WiMAX, LTE and LTE Advanced. In 2011, he assumed responsibility for spectrum policy within Nokia Networks' industry environment team. Ulrich is representing Nokia in GSA, is vice chair of the BITKOM Spectrum working group in Germany and chairs the DIGITALEUROPE spectrum working group in Brussels. |
| ***3GPP - Narrowband IoT Solutions (NB-IoT)*** | | |
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|  | **Thomas Weber**  Spectrum Management Expert,  European Communications Office | | Joined the European Communications Office in 2010 as expert for spectrum management and is the chairman of the WG FM Maintenance Group on Short Range Devices (SRD/MG). He is also responsible for the frequency management project teams in the WGFM dealing with spectrum monitoring, PMR/PAMR, satellite services, direct-air-to-ground communications and the European Common Allocations Table.  Before that, he worked for the Federal Network Agency in Germany in 2001-2010 and was the chairman of several ETSI standardisation groups dealing with ITS, PMR, DMR, GSM-R and UWB as well as the chairman for the DIN/DKE German National standardisation committee on radio devices. He also worked several years for several satellite operators and in the industry in satellite communications. He holds a degree in Communications Engineering acquired at the University of Applied Sciences in Dieburg, Germany. |
| ***Session D Chairman*** | | |
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|  | **Mr. Thomas Weilacher**  Chairman of ECC WG Frequency Management (WG FM), Bundesnetzagentur, Germany | | Mr. Weilacher has been working in the field of telecommunications since he finalised the study on electronic engineering. Since 1992 he has been working with the German regulatory authority (now "Federal Network Agency", BNetzA). Until 1995 he had been working in the area of licensing and monitoring in a regional office. From 1996 until now he has been involved in international frequency management issues, by working in the headquarters in Mainz. His tasks include the participation in meetings of ECC groups, Radio Spectrum Committee and ITU-R working parties as a member of the German delegation. Mr. Weilacher was also acting as Vice Chairman of ECC Working Group FM from 2008 to the beginning of 2014 and has become chairman of WG FM in March 2014. |
| ***Key note and Session A Chairman, summary of the Workshop and closing remarks*** | | |
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| ***C:\Users\weber\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\B2M6M6SP\Westring Morgan_2013_100_130.jpg*** | **Morgan Westring**  Swedish Post and Telecom Authority (PTS), Sweden | | Since 2009 working in the Spectrum Department at the Swedish Post and Telecom Authority. Before that nine years at the Swedish Space Corporation occupied with spectrum management. Primarily for the Swedish part of Société Européenne des Satellites, but also in respect of multi-national scientific satellite projects. Altogether this means work related to spectrum at an international level for 15 years, e.g. representing Sweden at World Radio Conferences, in ECC and RSC. Took active part in the development of the Swedish long-term spectrum strategy made public in 2014, which covers all essential aspects of spectrum management. In this context international harmonisation, long-term maximisation of socio-economics benefits and shared use of spectrum are identified as cornerstones concerning spectrum management on a national level as well as in CEPT, ITU, ETSI and EU. |
| ***View of the Swedish CEPT Administration*** | | |
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|  | **Ludwig Winkel**  ZVEI ( German Electrical and Electronic Manufacturers' Association), Germany | | Mr. Winkel is employed by Siemens AG in Germany in the division “Industrial automation, - Digital Factory” with the responsibility of a Fieldbus Standards Manager. He received his degree (Dipl. Ing.) in electrotechnical, electronic and control engineering from the University of Saarbruecken, Germany, in 1977. He joined Siemens AG in 1977 in an R&D group for electrical measuring devices and he proceeded to lead other R&D positions dealing with industrial automation systems like PLC and DCS. Since 1992 Mr. Winkel has been actively involved in development and promotion of standards for instrumentation and control systems in various positions as convener, chair, editor, rapporteur, etc. of different groups in IEC, ISO, IEEE, ETSI, CENELEC, DKE, ISA. Mr. Winker is the author of two books “SIMATIC Software – Process control System PCS 7 – Validation support manuals I and II which deal with Food & Drug Administration requirements for industrial automation systems. He is also co-author of a book dealing with IEEE 802.15.4 related communication network with the title: “Low-Rate Wireless Personal Area Networks: Enabling Wireless Sensors With IEEE 802.15.4, 3rd Edition” ISBN: 978-0-7381-6285-0. Mr. Winkel is the recipient of many awards including from the HART Communication Foundation for his efforts to bring the HART technologies to IEC, ISA to become an ISA fellow, IEC the IEC 1906 award for his work in IEC TC65 Standards efforts with relevance to IoT and M2M. |
| ***Future Wireless Industrial Applications as part of the Industry 4.0/Smart Manufacturing and IoT*** | | |
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| ***Johannes Vallesverd*** | **Mr. Johannes Vallesverd**  **Chairman of ECC WG Numbering and Networks** | | Mr. Vallesverd is a Senior Adviser at the Norwegian Post and Telecommunications Authority (NPT) and chairman of WG NaN. He is a lawyer by profession having graduated from the University of Oslo and was appointed chairman of WG NaN at the 35th ECC meeting in Berlin, Germany, on 6 November 2013. |
| ***Keynote 3 – Numbering & Networks*** | | |
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