

## Europass curriculum vitae



### Personal information

Surname / First name(s)	<b>HORVITZ, Robert Joseph</b>
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E-mail(s)	<a href="mailto:horvitz@VOLNY.cz">horvitz@VOLNY.cz</a>
Nationality	American
Date of birth	4 April 1947
Gender	Male

### Work experience

Dates	2020-present
Occupation or position held	Research and Publications Editor, Digital Development Global Practice
Main activities and responsibilities	Editing a "flagship" book on 5G mobile telecommunications for developing countries
Name and address of employer	World Bank Group, 1818 H Street NW, Washington, DC 20433 USA
Type of business or sector	International financial institution
Dates	2010 – present
Occupation or position held	Senior Consultant
Main activities and responsibilities	Working with Simon Forge and Colin Blackman on the production of research studies and reports for private clients and the European Commission, mainly on issues related to radio spectrum but also transportation, Internet of Things, smart utilities, technology forecasting, etc. Currently working on EC-funded studies of software-defined radio and a regulatory regime to accelerate the deployment of 5G and small area wireless access points (SMART 2018/0017); also advising Thailand's National Broadcasting and Telecommunications Commission on spectrum valuation and license auctions.
Name and address of employer	SCF Associates Ltd., 4 Chiltern Close, Princes Risborough, Buckinghamshire HP27 0EA UK
Type of business or sector	Consultancy

<p>Dates Occupation or position held Main activities and responsibilities</p>	<p>2016 – 2017 Associate Manager Radio spectrum policy specialist in an EBRD funded ICT development project for the Republic of Georgia: advising on harmonisation of their electronic communication laws with EU norms and introducing “best practices” in spectrum management at Georgia’s National Communications Commission. Grant Thornton Advisory, s.r.o., Jindřišská 16, 110 00 Prague 1, Czech Republic Consultancy</p>
<p>Dates Occupation or position held Main activities and responsibilities</p>	<p>2005 – 2014 Founder/Director Strategic direction, management, fundraising &amp; representation for an international research and educational project in radio spectrum policy; author of analyses &amp; position papers for the Open Spectrum Foundation, the Open Spectrum Alliance, Open Spectrum UK &amp; other organizations; participation in ITU-R Study Group 1 (spectrum management) and CEPT’s workgroup on cognitive access to TV white spaces; web administrator for <a href="http://www.openspectrum.info">http://www.openspectrum.info</a> (maintaining a database of regulations concerning license exempt radio, compiling a daily newsfeed of headlines and stories about emerging wireless technologies and policies). Open Spectrum Foundation, P.O. Box 71082, 1008 BG Amsterdam, Netherlands Non-profit educational foundation</p>
<p>Dates Occupation or position held Main activities and responsibilities</p>	<p>2002 – 2004 Field Manager, Global Internet Policy Initiative (GIPI) Supervising, assisting &amp; fundraising for local Internet policy reform advocates in 20 countries (Russia, India, Indonesia, Kazakhstan, Nigeria, Vietnam, etc.); representing GIPI at international meetings and fora; writing/editing GIPI’s Internet policy blog (<a href="http://gipi.typepad.com">http://gipi.typepad.com</a>); writing quarterly &amp; annual activity reports for donors, journalists and the general public; member of OECD’s E-government Advisory Group and the UN Economic Commission for Europe’s “Team of Specialists in Internet Enterprise Development.” Internews Network Inc., P.O. Box 4448, Arcata, CA 95518-4448 USA Policy research and reform</p>
<p>Dates Occupation or position held Main activities and responsibilities</p>	<p>2002 – 2003 Regulatory Resource Consultant, Dot-COM Alliance The Dot-COM Alliance was a USAID-funded program of support for telecom policy reform in developing countries. I was responsible for setting up Dot-COM’s private online regulatory resource library, providing research support for Dot-COM consultants in Southern Africa, launching Dot-COM’s first project in Romania, etc. Internews Network Inc., P.O. Box 4448, Arcata, CA 95518-4448 USA Policy research and reform</p>
<p>Dates Occupation or position held Main activities and responsibilities</p>	<p>2000 – 2002 Regional Manager for Eastern Europe, Global Internet Policy Initiative (GIPI) Hiring, supervising and advising local Internet policy advocates in Belarus, Bosnia-Herzegovina, Bulgaria, Romania, Russia, Serbia and Ukraine; author of the first “e-readiness assessments” for Albania, Bosnia-Herzegovina and Serbia; member of the Stability Pact’s eSEEurope Working Group. Internews Network Inc., P.O. Box 4448, Arcata, CA 95518-4448 USA Policy research and reform</p>
<p>Dates Occupation or position held Main activities and responsibilities</p>	<p>1995 – 1997 International Coordinator, OSI Internet Programme Connecting new countries to the Internet and expanding access in countries already connected; evaluating grant applications, project proposals and budgets; liaison with the European Commission’s ICT Partnership and the Central &amp; East European Networking Association (CEENET); co-organizer of NATO/CEENET’s 1996 training workshop for national academic research network managers; coordinating IT office security; overseeing the development of OSI’s websites; etc. Open Society Institute, Oktober 6. ut. 12, H-1051 Budapest, Hungary Private operating and grantmaking foundation</p>
<p>Dates</p>	<p>1993 – 1995</p>

Occupation or position held Main activities and responsibilities	Co-Founder/Director of Information Systems, TransNews The Transnational News Agency was a satellite-based daily video news exchange for TV networks in Eastern Europe. TransNews' members were Czech Television, Polish Television, Ostankino, Russian Television, TV Romania and Bulgarian TV. My responsibilities included developing the initial concept for TransNews and overseeing the construction and operation of the communications infrastructure needed to coordinate the exchange.
Name and address of employer Type of business or sector	Transnational News agency, Skokanska 1, 169 00 Prague 6, Czech Republic Television news distribution
Dates Occupation or position held Main activities and responsibilities	1992 – 1995 Regional Consultant for Electronic Media (Eastern Europe and Central Asia) Supporting the development of independent journalism & broadcasting in the former Communist countries; setting up the OSI Media Programme's first office in Europe; evaluating grant applications submitted by new radio stations; ordering equipment for grantees; organizing news-exchanges among radio stations; building a training studio for the BBC's Radio Journalism School in Bucharest, Romania; helping to create national associations of radio broadcasters; advising parliamentary committees on broadcast legislation and licensing; etc.
Name and address of employer Type of business or sector	Open Society Institute, Oktober 6. ut. 12, H-1051 Budapest, Hungary Private operating and grantmaking foundation
Dates Occupation or position held Main activities and responsibilities	1989 – 1991 Radio Consultant Researching & co-authoring a "needs assessment" for the US National Endowment for Democracy on the steps needed to de-monopolize broadcasting after the collapse of communism in Eastern Europe; author of <i>The Local Radio Handbook</i> for East and Central Europe.
Name and address of employer Type of business or sector	Internews Network Inc., P.O. Box 4448, Arcata, CA 95518-4448 USA Nongovernmental organisation involved in journalist training and media policy reform
Dates Occupation or position held Main activities and responsibilities	1987 -1990 Executive Secretary Spokesman and chief lobbyist for 18 radio clubs in North America; preparing Congressional testimony; representation at international conferences, including the ITU's World Administrative Radio Conference (1987); filing comments in Federal Communication Commission consultations; liaison with other wireless groups; etc.
Name and address of employer Type of business or sector	Association of North American Radio Clubs, 1634 Fifteenth St. NW, Washington, DC 20009 USA Association of NGOs
Dates Occupation or position held Main activities and responsibilities	1982 -1987 Washington Correspondent Reporting on issues arising in Washington related to the radio spectrum, satellites and international communications, for the award winning weekly radio program, "Media Network." About a hundred reports were broadcast, most as phonecalls delivered live on-air, the rest pre-recorded and edited in Washington and delivered by cassette.
Name and address of employer Type of business or sector	Radio Netherlands World Service, Hilversum, Netherlands Radio Journalism

## Education and training

Dates	September 1965 – June 1969
Title of qualification awarded	Bachelor of Arts (BA degree)
Principal subjects/occupational skills	Economics, social and political science, visual art
Name and type of organisation	Yale University, New Haven, Connecticut 06520, USA
Level in international classification	ISCED 5A

## Personal skills and competences

Mother tongue(s) **English**

Other language(s)

Self-assessment

<b>Understanding</b>	<b>Speaking</b>	<b>Writing</b>
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European level (*)		Listening		Reading		Spoken interaction		Spoken production		
<b>French</b>	B1	Independent user	B1	Independent user	A1	Basic user	A1	Basic user	A1	Basic user
<b>Serbian</b>	B1	Independent user	A1	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

**Social skills and competences** Have lived and worked in Central/Eastern Europe since 1991, dealing regularly with sensitive issues in difficult political environments (e.g. broadcast reform in Albania, Bosnia-Herzegovina, Croatia, Kazakhstan, Serbia, Ukraine, etc.; initiating internet access in the Palestinian Territories and Bosnia). Productive self-starter and reliable either as an independent agent or team member. Comfortable in both non-profit and for-profit organizations & environments. Creative, persistent and adaptable. Excellent communication skills, written and verbal.

**Organisational skills and competences** Leadership skills: successfully managed international teams of 5 to 35 people in multi-year policy-related projects; started and co-managed a complex, continental-scale enterprise (a regional satellite video news agency). Financial skills: extensive fund-raising and budget management experience.

**Technical skills and competences** Over 40 years of engagement with radio spectrum policy as a journalist, public interest lobbyist and analyst. Good knowledge of radio physics, wireless technology and market trends. Have built several radio broadcasting studios (including 2 for the BBC Journalism Training Programme, in Bucharest and Prague) and selected equipment suites for dozens of FM radio stations. Excellent research and presentation skills honed by speaking frequently at international conferences, writing many regulatory interventions and meeting with regulators. Active participant in regulatory consultations in a wide range of countries. Taught history of electronic media at the undergraduate level in the US in the 1970s.

**Computer skills and competences** Good knowledge of HTML and website design. Years of experience administering mailing lists and online forums (including CompuServe and The WELL). Good knowledge of Microsoft Office. Active internet user since 1985.

**Driving licence(s)** Internationally qualified Czech driving licence for automobiles

**Additional information** References supplied on request

**Annexes** Annex 1: Relevant recent publications  
Annex 2: Relevant experience (presentations)

### Annex 1. Relevant recent publications

(with Simon Forge, Colin Blackman and Erik Bohlin), *Light Deployment Regime for Small Area Wireless Access Points (SAWAPs) – Final Report*, European Commission, SMART 2018/0017 (December 2019) – online at <https://op.europa.eu/en/publication-detail/-/publication/463e2d3d-1d8f-11ea-95ab-01aa75ed71a1/language-en>

(with Simon Forge and Sven Lindmark), *Fixed and Mobile Convergence in Europe: Quality Measurements for 5G and Network Densification - Final Report*, European Commission/Stiftelsen IMIT, SMART 2016/0046 (June 2018) – online at <https://publications.europa.eu/en/publication-detail/-/publication/c07b48af-78ec-11e8-ac6a-01aa75ed71a1/language-en/format-PDF>

(with Simon Forge), *A Case Study of ONA: East Africa's One Network Area Roaming Initiative*, Development Bureau, International Telecommunication Union (November 2016) – online at <http://www.itu.int/pub/D-PREF-EF.ONA-2016>

(with Simon Forge), "Europe Considers Commercial LTE", *Radio Resource International*, April 2015, pages 28-33 – online at <http://digital.olivesoftware.com/Olive/ODE/RadioResource/>

(with Simon Forge and Colin Blackman), *Is Commercial Cellular Suitable for Mission Critical Broadband?* European Commission, DG CONNECT, Radio Spectrum Policy Unit, study contract SMART 2013/0016 – final report online at [http://ec.europa.eu/information\\_society/newsroom/image/smart\\_2013\\_0016\\_final\\_report\\_8211.pdf](http://ec.europa.eu/information_society/newsroom/image/smart_2013_0016_final_report_8211.pdf)

"Geo-Database Management of White Space vs Open Spectrum", lead chapter in *TV White Spaces: A Pragmatic Approach*, edited by Ermanno Pietrosomoli and Marco Zennaro (Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, 2013) – online at <http://ssm.com/abstract=2279099>

(with Arturas Medeisis), "Study Report to the ITU BDT: Spectrum Management Certified Program Course – Concept Outline and Framework of Study Modules" – October 2013. Note: this proposal for an ITU-certified masters-degree program in radio spectrum management evolved into the ITU Academy.

(with Colin Blackman and Simon Forge), "Liberating Europe's radio spectrum through shared access", *info*, Vol. 15, No. 2 (2013), pages 91-101 – online at <http://dx.doi.org/10.1108/14636691311305443>

(with Simon Forge and Colin Blackman), *Perspectives on the value of shared spectrum access: Final report to the European Commission, SMART 2011/0017* – online at [http://ec.europa.eu/information\\_society/policy/ecomm/radio\\_spectrum/document\\_storage/studies/shared\\_use\\_2012/scf\\_study\\_shared\\_spectrum\\_access\\_20120210.pdf](http://ec.europa.eu/information_society/policy/ecomm/radio_spectrum/document_storage/studies/shared_use_2012/scf_study_shared_spectrum_access_20120210.pdf)

"Open Spectrum Alliance position paper for the EU Spectrum Summit" (Brussels, Belgium, 22-23 March 2010 – online at <http://www.scribd.com/doc/28729105/Open-Spectrum-Alliance-contribution-for-22-23-March-Spectrum-Summit>

"Managing and Utilising Spectrum More Efficiently," by Arun Mehta and Robert Horvitz, *Economic & Political Weekly*, Vol. 45, No. 9 (27 February – 5 March 2010), pages 26-7.

"The Real Spectrum Scam," editorial for the *Financial Express* (27 November 2010), page 12 – online at <http://www.financialexpress.com/news/column-the-real-spectrum-scam/716612/0>

"Towards an Open ITU" (August 2009) – online at [http://www.openspectrum.eu/drupal6/sites/www.openspectrum.eu/files/Towards\\_an\\_Open\\_ITU\\_public\\_version\\_2.pdf](http://www.openspectrum.eu/drupal6/sites/www.openspectrum.eu/files/Towards_an_Open_ITU_public_version_2.pdf)

"Opinion: Avoid the 'L-Word'?" *PolicyTracker*, October 2009, pages 12-13 – online at [https://www.policytracker.com/Back%20issues/PT-Oct-09.pdf/at\\_download/file](https://www.policytracker.com/Back%20issues/PT-Oct-09.pdf/at_download/file)

"View from Europe," a regular column for *The Wireless Government Report* (weekly newsletter of the Wireless Internet) For an index of articles published September 2007 – June 2008, and access to the content, see [http://w2i.com/resource\\_center/the\\_w2i\\_report\\_weekly\\_newsletter/articles\\_written\\_by\\_author/p/authorid\\_1521](http://w2i.com/resource_center/the_w2i_report_weekly_newsletter/articles_written_by_author/p/authorid_1521)

"Marconi's Legacy: National Sovereignty Claims in Radio" – paper presented at the 1st COMMUNIA Workshop on "Technology and the Public Domain," NEXA Center for Internet and Society, Politecnico di Torino, Italy (18 January 2008) – online at <http://ssm.com/abstract=1107832>

"Spectrum Reform: Too Much is Not Enough" – paper presented at the London School of Economics' workshop on "Spectrum Reform in the UK: Has all the thinking now been done?" (6 July 2007) – online at <http://ssrn.com/abstract=1007456>. An excerpt was published as "UK spectrum reform: the verdict from the licence-free community" in the November 2007 issue of *PolicyTracker* (pages 12-13).

"Opinion: licence exempt studies hold global lessons" – in *PolicyTracker's* May 2007 issue. Excerpt online at <http://policytracker.blogspot.com/2007/04/opinion-licence-exempt-studies-holds.html>

"Beyond Licenced VS. Unlicenced: Spectrum Access Rights Continua" – background paper for an ITU workshop on "Economic Mechanisms for Spectrum Management", Geneva, Switzerland (January 2007) - [http://www.itu.int/osg/spu/stn/spectrum/workshop\\_proceedings/Background\\_Papers\\_Final/ITU-Horvitz-FINAL.pdf](http://www.itu.int/osg/spu/stn/spectrum/workshop_proceedings/Background_Papers_Final/ITU-Horvitz-FINAL.pdf)

"Towards 'Good Spectrum Citizenship': Some Possibly Useful Heresies" – in *Intermedia*, Volume 34, Issue 3 (August 2006), pages 12-16.

"Frequency Conversion and New Technologies: Challenges and Opportunities in Spectrum Management" – presented at the Centre for Strategic Research in Moscow, Russian Federation (20 June 2006) – English text at <http://www.volny.cz/rhorvitz/CSR-Horvitz-final.pdf>

"Some Possibly Useful Heresies" – presented at a European Commission-sponsored workshop in Brussels on "Technical, Regulatory and Economic issues relating to Collective Use of Radio Spectrum" (27 April 2006) – available online at [http://europa.eu.int/information\\_society/policy/radio\\_spectrum/docs/workshop\\_collective\\_use/2c\\_some\\_possibly\\_heresies\\_open%20spectrum.pdf](http://europa.eu.int/information_society/policy/radio_spectrum/docs/workshop_collective_use/2c_some_possibly_heresies_open%20spectrum.pdf)

"Comments for Analysys regarding Ofcom's Digital Dividend Review," written on behalf of Open Spectrum UK (9 March 2006) – online at <http://www.ofcom.org.uk/consult/condocs/ddr/responses/nr/OpenSpectrumUK.pdf>

"Survey of Country Wi-Fi Regulations" and "Wi-Fi Winds in Eastern Europe" in *The Promise of Broadband Wireless Communities*, published by the Wireless Internet Institute and the United Nations' ICT Task Force for the World Summit on the Information Society (November 2005).

"Media Licensing, Convergence and Globalization" – published in *Eastbound* (Vol. 1, No. 1 – March 2006) by the Centre for Media and Communications Studies at the Central European University in Budapest – see <http://ssrn.com/abstract=895060>

"EU Spectrum Reform to Promote Rural Broadband" – presented at the EFITA conference on "Rural Areas as Engines for Implementing the Renewed Lisbon Strategy" (Brussels, 29 November 2005) - <http://www.volny.cz/rhorvitz/efita-rh.pdf>

"Broadband Access and Public Support in Under-served Areas" – response to the European Commission's public consultation on the Digital Divide in Europe (15 September 2005) – [http://ec.europa.eu/information\\_society/eeurope/i2010/digital\\_divide/docs/responses/-stichting\\_open\\_spectrum.pdf](http://ec.europa.eu/information_society/eeurope/i2010/digital_divide/docs/responses/-stichting_open_spectrum.pdf)

"Open Spectrum UK Response to Ofcom's Spectrum Framework Review Consultation" (15 February 2005) – <http://www.ofcom.org.uk/-consult/condocs/sfr/responses/openspectrum.pdf>

"Serbia: A Preparatory Assessment" – report on Internet access and telecommunications in Serbia for the US Agency for International Development (December 2002) - [http://pdf.usaid.gov/pdf\\_docs/Pnact003.pdf](http://pdf.usaid.gov/pdf_docs/Pnact003.pdf)

"Internet Policy Environment: Bosnia-Herzegovina" – a study for the United Nations Development Programme (March 2002) – no longer available online.

"Internet Policy Environment: Albania" – a study for the United Nations Development Programme (January 2002) – no longer available online.

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## Annex 2. Relevant experience (presentations)

A comparative study of 5G spectrum valuation methods for Thailand's National Broadcasting and Telecommunications Commission and reserve price recommendations for Thailand's upcoming 5G license auctions at a stakeholders' workshop in Bangkok, 29 October 2019

Presentation of strategy for our EC funded study on software defined radios at a meeting of the EC Expert Group on Reconfigurable Radio Systems, Brussels, 25 June 2019

Presentation of findings from our study for the European Commission on accelerating deployment of 5G and small-area wireless access points at a plenary session of the EC's Radio Spectrum Policy Group, Brussels, 11 June 2019

Presentation of findings from our study for the European Commission on accelerating deployment of 5G and small-area wireless access points at a plenary session of the EC Communications Committee (COCOM), Brussels, 3 June 2019

Moderator of expert panel at the EC's Stakeholder Workshop on small-area wireless access points, Brussels, Belgium, 22 November 2018

Presentation of findings from our study for the European Commission on Fixed-Mobile Convergence at the EU Broadband Mapping Project's Steering Committee Meeting in Brussels, 14 September 2017

Keynote speaker, "Big data for PPDR: Ethical Considerations & Challenges," Critical Communications World, Amsterdam, 1 June 2016

Panelist, Critical Communications World, Barcelona, Spain, 21 May 2015; board of advisors for Critical Communications World 2016

Organizer of "Open Spectrum Week" at the College of Design, Karlsruhe, Germany, 8-12 December 2014, including 3 lectures, a film screening and hands-on (radio transmitter building) workshops with Elektra Wagenrad

Speaker at the public presentation of *Is Commercial Cellular Suitable for Mission Critical Broadband?*, European Commission, Brussels, 15 October 2014

Guest speaker at the ETSI - 3GPP plenary, 16-18 June 2014, Sophia Antipolis, France, presenting the findings of our mission critical cellular study for the EC

Panelist, "Enhanced Engagement of Academia in the Work of the ITU," organised by the ITU at the Czech National Technical Library, 28-29 April 2014, in Prague

Lecturer and panelist ("Open Spectrum for TV White Spaces in Developing Countries"), Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, 10-14 March 2014, sponsored by the ITU and the Network Startup Resource Center

Speaker ("White Spaces and Community Wireless"), International Summit for Community Wireless Networks, Berlin, Germany, 4 October 2013

Speaker ("Dynamic Spectrum Access"), conference on Shaping the Future of Broadcasting, European Broadcasting Union, Geneva, Switzerland, 15 November 2012

Speaker ("Authorizations and License Exemptions"), International Spectrum Congress, Bogotá, Colombia, 15-16 August 2012

Speaker ("Wireless Creativity and Open Spectrum") at the Open Here Festival, Dublin, Ireland (30 June – 1 July 2012)

Keynote speaker ("ASA/LSA: Europe's New Opening for Cognitive Radio"), European Wireless Innovation Forum, Brussels, Belgium (28-29 June 2012).

Speaker ("Perspectives on the Value of Shared Spectrum Access"), Middle East Spectrum Conference, Manama, Bahrain (20-21 March 2012)

Discussion leader, workshop on "Open Spectrum" at the Abdus Salam International Centre for Theoretical Physics course on "Strengthening training capacity in wireless networking for Africa," Trieste, Italy (6 April 2011).

Speaker ("Innovative New Technologies: Policies to Maximise the Potential of the Wireless Sector") at the Middle East Spectrum Conference, Dubai, United Arab Emirates (29-30 March 2011).

Panelist ("Future Spectrum Management Challenges and Solutions") at the 5<sup>th</sup> Annual European Spectrum Management Conference, Brussels, Belgium (22-24 June 2010).

"Opening India's Spectrum" – workshop at the Center for Internet & Society, Bangalore, India (14 January 2010).

Discussant, "Challenges to the European Single Standard Solution – an International Round Table on Radio Diversity" at the Karlsruhe Institute of Technology, Karlsruhe, Germany (16 November 2009).

Panelist ("Spectrum 2.0") and "Opening the Terahertz Frontier" – presentation at the Emerging Communications Conference, Amsterdam, Netherlands (30 October 2009).

"Meeting the Needs of the Unlicensed Sector" – presentation at the Middle East Spectrum Conference, Muscat, Oman (29-30 September 2009).

Discussant, "Expert meeting on digital broadcasting: regulation, policy & independence," Open Society Institute, London, England (27-8 November 2008).

"Unlicensed Services and the Digital Dividend" – presented at the European Digital Dividend Conference, Brussels, Belgium (4-5 March 2008).

"Reclaiming the Airwaves" – presented at "European Switchover Strategies: Reaping the Digital Dividend" in London, England (5-6 February 2008).

"A Stormy Future for Spectrum Management" – presented at the Chamber of Commerce in Milano, Italy (17 January 2008).

"Open Spectrum: Ideas and Actions" – presented at the International Centre for Art and New Technologies, Prague, Czech Republic (23 October 2007)

Moderator of the "Mayors and CIOs" panel on regulation, funding and strategy; plus a keynote presentation on "Urban Nets, Rural Nets: Allies or Rivals?" - at the 2nd Annual Wireless and Digital Cities Congress, Cannes, France (27 September 2007).

"Beyond Licenced VS. Unlicensed: Spectrum Access Rights Continua" - presented at the ITU Workshop on Economic Mechanisms for Spectrum Management, Geneva, Switzerland (22-23 January 2007).

Led a 2-day workshop on "efficient use of spectrum," "legitimacy and impact" and "conducting public consultations" for the staff of Serbia's new regulatory agency, RATEL (7-8 November 2006).

"International regulatory" panelist at "The Wireless Event," London, England (18 May 2006).

"The Digital Dividend: Now you see it, now you don't" - presented at City University conference on "Digital Switchover: Policies and Implementation," London, England (16 May 2006).

Final speaker (summariser) at *PolicyTracker's* conference on "Unlocking the Digital Dividend - RRC-06 and Beyond", London, England (7 March 2006).

"Spectrum Policy as Social Policy" – presented at "An Open Future for Wireless Communications?", MIT-Cambridge Institute, Cambridge, England (20 April 2005).

"Wi-Fi and Beyond" - presented at the ICT Policy Training Programme of the Stanhope Centre for Communications Policy Research, Budapest (17-29 August 2003).

Computer applications seminar Leader, "Diplomacy and Cyberspace," a 4-day programme at the Italian Diplomatic Institute in Rome, Italy (23-27 June 2003) to prepare diplomats from Eastern Europe for the first World Summit on the Information Society (WSIS). Sponsored by the UN Institute for Training and Research (UNITAR) and the UN Department for Economic and Social Affairs (UNDESA).

"Regulatory Framework for E-Commerce: International Best Practices and Models," presented at a conference on the State and Development Prospects of ICT in Uzbekistan, Uzbek Agency of Communication and Informatization, Tashkent (26-27 November 2002).

"Influence of Liberalization of IP Telephony on the Telecommunication Market in Bosnia & Hercegovina," opening speech at the Communications Regulatory Agency's Symposium on IP Telephony, Sarajevo, BiH (31 October 2002).

Moderator of the panel on "The Role of Civil Society in the Creation of National ICT Policy and Strategy" at the Stability Pact for Southeast Europe's conference on "Telecommunications for Development" in Belgrade, Yugoslavia (28-29 October 2002).

"The Role of National Research and Educational Networks in National Development" – presented at a NATO Advanced Networking Workshop in Zagreb, Croatia (22-25 September 2002)

Panelist, "Technology and Economic Development," at the European Foundation Centre's annual general assembly and conference, Brussels, Belgium (4 June 2002).

Panelist, UN Economic Commission for Europe Workshop on "Electronic Government Development in Transition Economies", Budapest, Hungary, 7-8 November 2001.

"The Internet in Central and Eastern Europe" – presented at a workshop on "Data Conflicts: Eastern Europe and the Geopolitics of Cyberspace", Einstein Forum, Potsdam, Germany (14 December 1996)

"Post-Communist Local Radio" – presented at a symposium on "International Models of Free/Private Radios" in Saalfelden, Austria (11-13 May 1996)

"The Main Needs of the Audio-Visual Industries in Central and Eastern Europe for Legal Information" – presented at a European Audiovisual Observatory Workshop on Media Law in Warsaw, Poland (26-27 October 1994).

Keynote speaker on "Community Radio in Eastern Europe" at the "One Europe, Many Voices" AMARC conference in Ljubljana, Slovenia (15-18 September 1994).

Seminar leader, "Surreptitious Interception Devices: A Legal Time Bomb," at the Association for Technical Security Counter-Measures Professionals' annual conference, Washington, DC (April 1989).

"Birds of a Feather? The Woodpeckers and Other Over-the-Horizon Radars as Spectrum Management Challenges" – presented at the International Conference on Electromagnetic Compatibility, Washington, DC (10-12 May 1988) and published in the conference proceedings.

NGO Observer (representing the Association of North American Radio Clubs) at the ITU's World Administrative Radio Conference for High Frequency Broadcasting, Geneva, Switzerland (2 February – 8 March 1987).