



# A Century of Broadcasting



asociación española  
ingenieros  
de telecomunicación



POLITÉCNICA

The Second Region 8 IEEE Conference on the History of Telecommunications  
Madrid, Spain  
3-5 November 2010  
<http://www.aeit.es/histelcon2010/>

## CONFERENCE SESSIONS (Preliminary Version)

WEDNESDAY, 3 November 2010

### OPENING SESSION. 10:15 – 11:00

#### **The Origins of Radio Broadcasting**

Prof. Dr. Tapan K. Sarkar

Department of Electrical Engineering and Computer Science

Syracuse University

New York, USA

### SESSION I. STELLAR MOMENTS IN THE HISTORY OF BROADCASTING (I). 11:30 – 13:00

- **Stellar Moments in the History of Broadcasting** (44), Tapashree Bhattacharya and Shibantayan Mallick
- **Radio Broadcasting in Italy in the first half of the Twentieth Century** (18), Francesco Pietra, Antonio Savini and Roberto Galdi

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- **Beginning of Radio Broadcasting in Cuba** (13), Roberto Diaz Martin
- **The Truth History of Radio Atlantica, 1947** (12), Francisco Moyano Carmona
- **Radio Broadcasting for Modernization of Daily Life in Turkey** (15), Ahmet Oral
- **The Birth of the Radio in Zamora** (71), Felix Rodriguez-Barrios

## SESSION II. STELLAR MOMENTS IN THE HISTORY OF BROADCASTING (II). 14:00 – 15:30

- **Broadcasting and Radio Amateurs** (6), Isidoro Ruiz-Ramos y García-Tenorio and Francisco Javier Martinez Galilea
- **First Spanish Ham Radio Congress** (66), Enric Fraile Algeciras and Isidoro Ruiz-Ramos y García-Tenorio
- **Boom and Demise of Shortwave Broadcasting** (47), Rafael Fernandez Ruiz
- **The History of Television in Brazil** (81), Waslon Lopes, F. Madeiro and M. S. Alencar
- **Television Broadcasting In Africa. Pioneering Milestones** (65), Nnamdi Nwulu, Adeyemi Adekanbi, Tochukwu Oranugo and Yemi Adewale
- **Turkiye's First TV Broadcasting and Istanbul Technical University TV, ITU TV** (70), Osman Ceylan, H. Bulent Yagci, Selcuk Paker and A. Suha Calkivik

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## SESSION III. PIONEERS OF ELECTRO-TECHNOLOGY (I). 15:30 – 17:00

- **The Role of Russian Scientists in the History of Electrical and Radio Communication Development** (23), Boris Kruk, Sergey Sitnikov and Natalia Chupakhina
- **The Telephonic Work of Spanish pioneer electrician Enrique Bonnet** (3), Jesus Sanchez Miñana and Carlos Sanchez Ruiz
- **Marcel Kiepatch – Croatian inventor in electrotechnics** (4), Ottone Novosel, Sandro Novosel and Hrvoje Belani
- **Contributions of the Spanish engineer Angel Gonzalez del Valle to the electric networks/circuits research from 1944 to 1964** (7), Jose Antonio Delgado Penin
- **Anatoly Kitov: Technology vs. Ideology. The story about first project of nationwide computer network** (38), Vladimir A. Kitov and Valeri Shilov
- **Let them be the ones to invent? Spanish Pioneers of Computer and Telecommunications** (60), J. Ignacio Hidalgo and Juan Lanchares Davila

## SESSION IV. PIONEERS OF ELECTRO-TECHNOLOGY (II). 17:30 – 19:00

- **James Clerk Maxwell, the founder of Electrical Engineering** (79), Tapan K. Sarkar, Magdalena Salazar-Palama and Dipak L. Sengupta
- **The Father of Radio: A Brief Chronology of the Origin and Developments of Wireless Communication and Supporting Electronics** (80). Magdalena Salazar-Palma, Tapan K. Sarkar and Dipak Sengupta

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- **Popov's Experiments on the Black Sea Fleet in 1899 and 1901** (78), P. P. Yermolov, V. V. Vorobyov and A. P. Yermolov
- **Principles and Evolution of Broadcasting in Spain** (85), Eugenio Fontán Pérez
- **Konstantin Perskiy – Russian electrical engineer, the man who coined the term “television” 110 years ago** (34), Oleg V. Makhrovskiy
- **Mónico Sánchez, Spanish inventor, in the Collins Wireless Telephone, Co., 1909** (41), Juan P. Rozas Quintanilla

**THURSDAY, 4 November 2010**

## SESSION V. BROADCASTING AS A POLITICAL INSTRUMENT, 9:30 – 11:00

- **The Role of the White House in the Establishment of a Governmental Radio Monopoly in the United States** (37), Alejandro Casasempere Garcia and Antonio Perez Yuste
- **Broadcasting and the forging of History. A case-study** (2), Jacob Baal-Schem
- **Shortwave Radio Development in Cuba After 1959** (11), Jose Altshuler
- **Communications without secrets. Activities of Spanish listening and cipher services during two wars** (17), Gabriel Díaz Orueta, Jose Ramon Soler Fuensanta and Manuel Castro Gil

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- **The BBC Monitoring Service – a short engineering history** (30), Peter C. J. Hill
- **Broadcasting in the Spanish Civil War. Military Engineers Work in the Conflict** (33), José Luis Goberna Caride

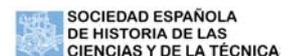
## SESSION VI. A CENTURY OF RADIO REGULATIONS, 11:30 – 13:00

- **From the liberalization of telecommunications to our days: Regulation, Innovation, Industry and Employment** (83), Enrique Gutierrez Bueno and José Luis Machota Vadillo
- **113 years of Telecommunications Universal Service in Portugal** (21), Raquel Castro Madureira, A. Manuel de Oliveira Duarte and Raquel Matias-Fonseca
- **Transformation of Cable TV driven by the Satellite TV Broadcast Revolution** (31), Ali S. Al-Suhaibani
- **History and Development of Spectrum Policy Institution in Thailand** (59), Nattawut Ard-Paru
- **The birth of Digital Terrestrial Broadcasting in Europe. a brief history of the creation and the standardization phases of Digital Audio Broadcasting (DAB) and Digital Terrestrial TV broadcasting (DVB-T)** (63), Bernard Le Floch, Pierre Siohan, Rodolphe Legouable and Christian Gallard

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## SESSION VII. TELECOMMUNICATION: PAST, PRESENT AND FUTURE (I), 14:00 – 15:30

- **Telecommunications in Cyprus: Past, Present and Future** (20), Ebrahim Ali Soujeri and Karen Hywel Kabaran
- **A Historical Approach to R+D+E in Telecommunications** (26), Carlos Blanco
- **Long-Distance Tropospheric Propagation Investigations in USSR Last Century** (75), German Sharygin and Ludmila Sharygina
- **Digital Broadcasting for context-aware services in Tourism** (32), Carlos Lamsfus, Aurkene Alzua-Sorzabal, David Martín and Diego López de Ipiña González de Artaza
- **Information Revolution Through Information and Communication Technology** (45), Oluwatoyin Agbonifo and Olumide S. Adewale
- **History of Contribution of Photovoltaic Cells to Telecommunications** (62), Junji Hirokane, Tatsuo Saga, Tetsuroh Muramatsu and Isao Shirakawa

## SESSION VIII. TELECOMMUNICATION: PAST, PRESENT AND FUTURE (II), 15.30 – 17:00

- **Contributions to the History of Telemedicine of the TICs** (10), Victoria Ramos
- **The First Worldwide Public Packet Switching Network** (40), Luis Arroyo
- **From Morse Code to Terabit Communications** (49), Ivan Glesk

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- **The Jump** (52), Antonio Luis Flores-Galea
- **From Experimental Packet Switching Services to e-Business Services** (54), Paraskevi Mentzelou
- **The unknown history of the Internet. Engineering the worldwide WiWiW project** (84), Andreu Veà

**FRIDAY, 5 November 2010**

## SESSION IX. DEVELOPMENT OF RADIO & TV TECHNOLOGY (I), 9:30 – 11:00

- **The Challenge of Realizing a New Television Service at NHK STRL (from Satellite and HDTV Broadcasting to Super Hi-Vision)** (5), Yuji Nojiri
- **History of TV in Siberia** (14), Ludmila Sharygina
- **The dawn of video tape recording and development of the helical scanning system** (28), Haruo Okuda
- **Satellite Communications. Technological Evolution** (51), Javier de la Plaza
- **A Century of Satellite Broadcasting. Development and Advancement of Radio and Television Technology** (55), Ogundele Ayansola and Adediran Y.A.

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## SESSION X. DEVELOPMENT OF RADIO & TV TECHNOLOGY (II), 11:30 – 13:00

- **Radio HEKAPHONE: the first pirate Broadcast Transmitter** (43), Reinhard Pfliegl and Peter Knezu
- **The First Spanish Short Wave Stations** (16), José María Romeo López
- **History of Anti-Broadcasting and Filtering** (22), Reza Najafi
- **On the development of Early Vocoders** (27), Rüdiger Hoffmann
- **Calling All Cars: Motorola's Early Police Radios** (29), Francisco Javier Rodríguez and Ignacio Salcedo
- **Broadcasting: From the air to the end user** (36), Justo Rodal Pérez

## SESSION XI. TELEPHONE & TELEGRAPH HISTORY, 14:00 – 15:30

- **Technological Archaeology. Technical Description of the Gauss-Weber Telegraph** (57), Fernando Martín Rodríguez, Gonzalo Barrio García and María Álvarez Lires
- **The Influence of the Telegraph in the United States Society in the 19th Century** (35), Francisco Saez de Adana
- **The American Influence in Telefónica Public Relations Strategy During the 20's and 30's** (24), Javier Garcia Algarra
- **The Business and political influence of the telephony across Europe** (39), Alberto Torrens Pascual

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- **Training Program for Crossbar Installation Testers** (61), Francisco Hornos Galvan
- **A Century of the Telephone in Zaragoza. His Implantation and Advances (1878-1975)** (42), María de los Ángeles Velamazan
- **Compañía Telefónica Nacional de España: from subsidiary to leader** (8), Ángel Calvo Calvo

## HISTELCON'2012 LAUNCHING MEETING, 15:30 – 16:00

Speakers to be defined

## CLOSING SESSION, 16:00 – 17:00

Theme and Speakers to be defined

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**Wednesday 3 to Friday 5, November 2010**

## POSTER SESSION

- **Alternator type High Frequency Generator remains in the World (46)**, Eiju Matsumoto
- **Dynamic Spectrum Access as an Alternative Radio Spectrum Regulation System (56)**, Jide Julius Popoola and Rex Van Olst
- **Handmade Devices of Istanbul Technical University Students for Radio, First TV and FM Radio Broadcasting in Turkiye (72)**, Osman Ceylan, H. Bulent Yagci, Selcuk Paker, A. Suha Calkivik and Osman Goren
- **A critical appraisal of Digital Audio Broadcasting (73)**, Gurvinder Singh Baicher

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