



A Century of Broadcasting



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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 Kiepath – 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 Historial 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 Vea

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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