

ACM MSWiM 2014

Montreal, Canada - September 21st - 25th, 2014

17th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems

Prof. A. Boukerche

(1866 - 1932)



The Radio-scientist

The Father of Radio Broadcasting

Education

- Trinity college school at Port Hope, Ontario, 1877
- Bishop's college at Lennoxville, Quebec, 1879

Work

- Principal position at a Whitney Institute in Bermuda at the age of 18
- Collaboration with Thomas Edison at the Edison Invention Factory, New Jersey
- Collaboration with Westinghouse Electric and Manufacturing Company, 1890





Work (continued)

- Professor of electrical engineering at the Purdue University, Indiana, 1892
- Professor of electrical engineering at the Western University of Pennsylvania (now the University of Pittsburgh), 1893
- U.S Weather Bureau adapt radio telegraphy to weather forecasting and storm warning (1900 ~ 1902)
- General manager, National Electric Signaling Company, Pittsburgh, 1902

- Known for
 - First wireless transmission carrying human sound
- Major/Famous Invention
 - Apparatus For Signaling By Electromagnetic Waves
- Some of Contributions
 - Over 200 additional patents, including
 - a version of microfilm and
 - an early form of sonar (fathometer or depth finder)
 - Barretter detector, followed by the electrolytic detector
 - Development of the heterodyne principle basis of almost every radio today
 - Alternator machine operating at 75 kHz with output power of 500 watts
 - Perfecting a new means of sending Morse code
 - Discovery of amplitude modulation (AM)



Now ... Who is this guy?

Dr. Ian F. Akyildiz. FIEEE, FACM

Professor at Georgia Institute of Technology, Atlanta, US

- Ken Byers Chair Professor
- Director of the Broadband Wireless Networking Laboratory
- Director of N3Cat (NaNoNetworking Centre in Catalunya, Spain)
- ► Editor-in-Chief of Computer Networks (Elsevier) Journal
- Founding Editor-in-Chief of the Ad Hoc Networks Journal
- Physical Communication (PHYCOM) Journal
- Nano Communication Networks (NANOCOMNET) Journal



Who is this guy?

Dr. Ian F. Akyildiz. FIEEE, FACM

Professor at Georgia Institute of Technology, Atlanta, US

- Well known in our community for his numerous outstanding scientific contributions in the area of wireless communication and mobile networking including cellular network, wireless sensor network, mesh network, just to mention a few.
- 2003 Best Tutorial Paper Award at IEEE ICC
- 2009 Best Paper Award at IEEE ICC
- 2010 Best Paper Award IEEE Globecom
- 2010 IEEE Communications Society Ad Hoc and Sensor Networks Technical Committee (AHSN TC) Technical Recognition Award (For pioneering contributions to wireless sensor networks and wireless mesh networks)
- ▶ 2011 IEEE Computer Society W. Wallace McDowell Award
- ▶ 2011 TUBITAK (Turkish National Science Foundation) Exclusive Award
- etc





Dr. Ian F. Akyildiz



Reginald A. Fessenden







R. A. Fassenden (1866 – 1932) The Father of Radio Broadcasting ACM Special Interest Group (SIG) on Simulation and Modeling (SIM)

ACM SIGSIM MSWIM 2014 REGINALD A. FASSENDEN AWARD

Presented to

Prof. Ian F. AKYILDIZ

For pioneering contributions for modeling and analysis of cellular and multihop wireless communication systems