

Who is the 'father' of radio broadcasting and wireless communications ?

Ivan Stojmenovic

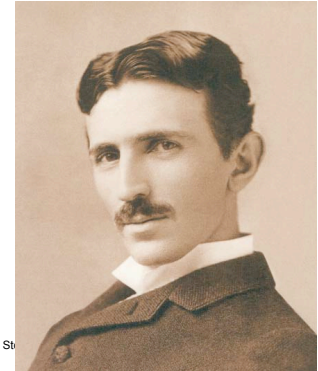
1

The 'Father' of wireless communication

Nikola Tesla
1856-1943

- The Serbian-American
- inventor,
- electrical engineer,
- and scientist

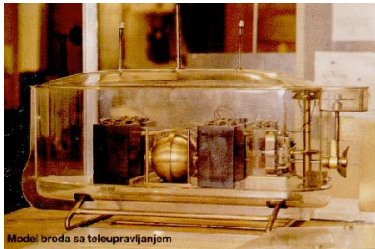
- www.teslasociety.com



Ivan St

Radio/wireless transmission

- was invented by **Nikola Tesla** in 1893
- Tesla demonstrated it to the public in **1898** in New York:
- Radio remote controlled submarine by logic gate and three separate radio frequencies



3



The US Supreme Court awarded the patent for radio communications to **Tesla** in 1945, taking it away from **Marconi**

The "World's radio station", Long Island, built in **1900**: for remote wireless control transmission throughout the world: news, music, photographs and even electricity!

However, that great plan could not be carried out because Tesla did not have sufficient resources finish it.

Tesla: the genius who lit the world

- **Transformers** for long distance transfers of **alternate current** electricity
- **Polyphase motors** to use the current
- Built the world's first **hydroelectric plant** at Niagara Falls, 1895

Winning over Edison's direct current proposal



Ivan St

5

Tesla's other inventions

- **Tesla** experimented and published on x rays in 1895-6, independently in parallel with **Roentgen**
- Neon and fluorescent lighting
- Wireless lighting
- NASA's robot on Mars, Shanghai's fast train etc. based on Tesla's inventions

Ivan Stojmenovic

6

Lost inventions

- When Nikola Tesla announced he was working on the transmission of **free** wireless electric energy,
- His laboratory was destroyed....
- And he lived in poverty ...

Among other achievements...

- Made a ship invisible to a live audience!
- Worked on time/space object transfer (USA army project including **Einstein**)
- His documentation is still classified by the US government

After his withdrawal from the army project, there is evidence that he was assassinated

van Stojmenovic

7

Celebrating the
150th
anniversary
of Nikola Tesla's
birth in 2006



Ivan S