

N@M

1st centenary commemorations of
Nobel Prize to G. Marconi

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Proposal description

- December 2009 marks the 100 years presentation of Nobel Prize to Guglielmo Marconi
- AMSAT Italy proposes to commemorate this event using the same media discovered by Marconi: the radio
- Using the best outpost available to send message to earth: International Space Station
- ARISS station is “had-hoc” location to send some message for this event, to be heard with small ground station around the world

Proposal description

- We propose to send voice-recorded message (in Italian and English language) and some still images (using SSTV) taken from old ceremony documents
- Timing should be spread during the second week of December (to cover Dec, 11-12 as “exact” date)
- Messages/images should be transmitted with automated system with quiet intervals

Proposal scope

- Commemoration goals
 - to reach maximum number of stations (amateurs and schools)
 - to give the best opportunity to “list from space”
 - to promoting along young students, new interest in radio, science and space, by the words of a “young scientist”
 - revitalize, re-activate or simply re-start, passion that guided Marconi, as young radioamateur (the first!), to go ahead with radio not only for communicate, but for improve her and our life

Proposal realization

- no cost for special equipment or training
- no special activities (no EVA)
- low costs for managing (contact with ESA, NASA, RKA)
 - hardware is now existing on board of ISS (ARISS radio equipment).
 - actual set-up of ARISS station will be used.
 - system already used by R. Garriott

Requirements

- on ISS
 - we need only to load some small files (audio and images) on the ARISS equipment
 - only activation/deactivation by astronaut will be required
 - ARISS equipment is tested, connected and certified
 - onboard radio station is useable "as-is"
- on ground
 - simple FM receiver (audio)
 - simple FM receiver + PC with freeware software (SSTV)
 - small & hand beamed antenna (whip or small yagi)

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Frequency

- ARISS station can do transmit on VHF and UHF
- VHF as primary should be used for easy reception (and maximum return of interest)
- UHF as secondary to add a new opportunity in RF crowded areas