

The Nordic HF Conference which is held every three years, is a task for all users and the research on the subject shortwave- here called HF, although also long wave was covered by this conference. Promoters and sponsors are SNRV and URSI.

First Nordic HF Conference was held 1986. This year's conference is the ninth HF10. In the beginning the Armed Forces was the main sponsor.

NHF10 was held on August 17 to 19 Faro training center at Faro Church. A nice place except that there are no tall trees to hang the antenna wires between.

NHF10 opened with a grand ceremony with orchestra and speeches. Speakers included cathedral dean Lennart Koskinen, who said that there was no longer empty spaces in the world. Everywhere there are radio waves that carry information we cannot know without wireless instruments.

The focus of this year's conference was communication beyond the horizon, and gathered around a hundred participants, from far beyond the horizon. Participants and speakers came from all over the world, Australia, Canada, Finland, England, Holland, USA, Russia, Switzerland, Norway and Germany.

Besides lectures also a number of companies and organizations exhibited products and services; Amtele, Codan (IDG Europe AB), Communications Audit Ltd, the FMV, FRO, Grimeton Radio, Saab AB, WRAP International AB and AF Infrastructure and SSA.

That the HF still has new challenges and potential was apparent. Developments in the modulation and coding leads obviously to the increased interest in HF as a reliable and independent resource. It may also been noticed that the air is free as compared to mobile and satellite and mobile telephony.

Automatic HF networks with technology that allows networks to establish contacts, and keep in touch and error correct without intervention of the operator was presented.

Sometimes the only option is shortwave, and advanced encryption of voice and data makes the security good.

Defense is the largest group of professional users of HF users today. And the requirements from this sector is also driving the technology forward.

Even long-haul flights are using HF communications. Anyone who has visited SDJ, Stockholm Radio, has certainly taken note of the extensive traffic through them to the aircrafts all over the world.

Some of the other interesting topics at the conference were as follows.

- HF2000 new generation HF system of the Swedish defense. It was showed live by equipment in two vehicles in the area.
- Applications and measurements for advanced communications in the VLF-HF including amateur radio.
- Experiences and measurements from experiments with NVIS at 5MHz during sunspot minima.
- Measurements of shortwave radio on board the space station MIR.
- Practical experience of HF systems in Africa.
- COTS-based HF system of voluntary activities in Finland
- Experiences and Recommendations for magnetic loop antennas and associated combat vehicles.

More information about the lectures is available on the web: [www.nordicHF.org](http://www.nordicHF.org).

One of the participants from Switzerland, Walter Reck kept the participants awake in the summer night to guide through the night sky with binoculars and a special helium neon laser that seemed to go into space until the stars.

Overall, the NHF10 was a very well organized and thoroughly enjoyable event. Many new friendships were created and new knowledge of radio communications was collected in abundance.

In addition to information about the papers in [www.nordicHF.org](http://www.nordicHF.org), there are pictures on the [www.garec.se](http://www.garec.se) "NHF10".

Amateur Radio Station SL1HF in its own building on Faro (Faaroe) training center, was active all the time, activated by visiting radio amateurs. A look at the NHF10 participants list showed that 39 pc. had stated their amateur signal, among them Steve Hubbard from Codan and Dr Marcus Walden from Plextek in the UK.

The participants were also offered entertainment in the form of music and common leisure activities, fox hunting etc.

Carl-Henrik Walde that placed the foxes in the Faro bush land, had a sweaty do in the summer heat. Three foxes were deployed. Only two did survive the deployment, but the winning team consisting of undersigned and Marcus Walden from the UK found three. The winning design concept consisted of a combination of old scout tracking skills from the past and Marcus' systematic thinking.

Organizers with Carl-Henrik Walde in the lead should have the honors of a successful conference in the enchanting environment of Faro Island.

---

## References

<a href="http://www.nordicHF.org">http://www.nordicHF.org</a>	Use: HF10 + ( * )	Program and documents
<a href="http://nhf2010.fotobojan.se">http://nhf2010.fotobojan.se</a>	Public access	Pictures
<a href="http://www.gotland.info/language/eng/">http://www.gotland.info/language/eng/</a>	“	Information abt Gotland
<a href="http://english.gotlandia.info/">http://english.gotlandia.info/</a>	“	“
<a href="http://www.kuten.se/test_english.html">http://www.kuten.se/test_english.html</a>	“	Kuten Creperie, Faro
<a href="http://www.youtube.com/watch?v=abKA9AQFIdY&amp;feature=related">http://www.youtube.com/watch?v=abKA9AQFIdY&amp;feature=related</a>	“	“
<a href="http://www.fro.se/attach/FRO%20Nytt%203_10.pdf">http://www.fro.se/attach/FRO%20Nytt%203_10.pdf</a>		Magazine article of NHF10

( \* ) for participants only. Ask for keyword if forgotten.

---

Author:

Krister Ljungqvist      [k.ljungqvist@idgeurope.com](mailto:k.ljungqvist@idgeurope.com), [www.garec.se](http://www.garec.se)