

The conference will be held at the FBU Training Camp on Fårö. Quarters are comfortable but spartan, and shared quarters will allow participants to meet new friends. A conference fee of SEK 10600 (5300 for students) will be charged, including full board and lodging from Monday to Friday. Accompanying family members are welcome, and a nominal charge will be made for these. Transportation to Visby by regular ferries and airlines is not included in the conference fee. Participants are registered in the order of invoice payment.

Organising Committee:

Carl-Henrik Walde	SNRV and NRS (Chairman)
Åke Blomquist	SNRV and NRS
Gunnar Eklund	TietoEnator
Olov Carlsson	AerotechTelub AB
Bengt Lundborg	Swedish Defence Research Agency
Winnie Svensson	AerotechTelub AB (Secretariat)

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Sven Åkerlund	Swedish Defence Materiel Administration

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The Nordic Radio Society welcomes authors, participants, exhibitors and family members to Fårö and HF 04. We will meet in an excellent conference theatre, in an interesting exhibition, in the internet café and in a camp near Mother Nature, well suited to you and your family. HF 04 Information sheet and Registration form are enclosed. In your own interest, please apply early!

The HF 04 website www.nordichf.org will give you up to date information.



Åke Blomquist
SNRVSNRV
Chairman of NRS



Carl-Henrik Walde
Chairman of the Organising Committee



10-12 AUGUST 2004

FÅRÖ

Nordic HF Conference

10-12 August 2004
FBU Kursgård, Fårö

First Invitation and Call for Papers

The Nordic Radio Society invites authors, exhibitors and participants to the 7th Nordic HF conference to be held on Fårö in the Baltic Sea north of Gotland.

The Programme Committee invites authors and speakers to submit abstracts not later than **1 February 2004**, to be sent to HF 04, AerotechTelub AB, SE-351 80 Växjö, Sweden or by using the abstract submission form on our web site, www.nordichf.org.

In connection with your trip to Sweden you can also take the opportunity to visit the rest of Gotland, and also Grimeton Radio and its 200 kW VLF alternator on the Swedish mainland. Travel information will be available on the HF 04 website.





10-12 AUGUST 2004

FÅRÖ

HF systems for the future

NRS, the Nordic Radio Society (a foundation co-operating with SNRV, the Swedish National Committee of URSI), invites authors and participants to the 7th Nordic HF conference. Topics focus on communications beyond the horizon, with emphasis on HF radio. The use of HF as information bearer in other types of applications is also of interest. Since the first conference in 1986, each Nordic HF conference has gathered around 150 participants, who have enjoyed the relaxed atmosphere and stimulating company of colleagues in the informal setting provided by the unique nature of Fårö and the FBU Training Camp.

HF communications technology has advanced significantly over the last few years, with significant trends towards a higher degree of automation and signal processing that now can be cost-effectively implemented to achieve affordable performance even in small systems. Mobile Internet is pervasive, however the radio environment and especially HF does not provide the distortion-free high bandwidth channel of an optical fibre. There is a significant challenge to meet users' expectations of affordable communications anywhere, anytime. High capacity multi-media networks carry not only analogue voice and data messages in a store-and-forward manner, but also digitised high quality voice, streaming data and even streaming video. Integration of HF with these networks requires developments in modulation and coding, link management and network management to be able to provide a service level acceptable by the network users. Automatic networking aspects and information transparency play an increasing role to achieve full subscriber connectivity, area coverage and highly reliable communications with HF possibly being only one of several available communications alternatives.

In many applications HF is the primary and sometimes the only way of providing communications to serve defence and civil purposes. Defence forces are the major professional users of the HF spectrum as far as numbers are concerned, and defence applications are the technology driver in HF communications.

We are happy to announce that the invited speech "Extracting Very Weak Signals from Noise" will be delivered by Joe Taylor, K1JT. Professor Joseph H Taylor is with Princeton University and was awarded the Nobel prize in physics in 1993.

Topics of interest include:

- User requirements and experience
- Interoperability issues
- HF role in network centric warfare
- Propagation studies and modelling
- Interference and noise
- Modulation, coding and link control
- Network architectures
- Equipment and systems
- HF in software defined radio concepts
- Multimedia access and applications
- HF radar
- HF digital broadcast
- Electronic warfare
- Simulation, modelling and evaluation

Related communication topics are also welcomed, such as LF and VLF applications (e.g. submarine communication) and meteor scatter.

We emphasize the importance of contributions from users, either as experience from the operation of existing systems or as requirements for new systems. Technology is not self-sufficient – there has to be a demand from the organisations that in the end actually will operate the fancy techno-logy. Conferences are important venues where users, scientists, engineers and manufacturers meet and have the opportunity to discuss both needs and solutions.

Authors are invited to submit abstracts for papers **not later than 1 February 2004**. Notice of acceptance will be given 1 March 2004, with print-quality papers to be submitted 1 May 2004. Presentation time is 20–30 minutes; please indicate the estimated length of your presentation (excluding the time for questions and discussions). The conference language is English, and all papers are to be printed in the Conference Proceedings. The full Proceedings of HF 04 and the earlier conferences will be available on CD-ROM. The Nordic HF web site lists titles and authors of all papers to ensure efficient Internet search and access to the topics. Use the enclosed form, or the form on the Nordic HF web site, for submission of abstracts, request for exhibition space and registration.

Current information is available at the following web site: www.nordichf.org.