

The Development of Global Navigation Satellite Systems

The Swedish Radio Navigation Board would like to invite you to a symposium regarding the future of satellite navigation.

Date and time

Tuesday, October 21st, 9.00 – 16.15.

Venue

The new head quarters of ÅF, Frösundaleden 2A, Solna/ Stockholm, Sweden (WGS84: N 59°21'53", E 18°01'14") .

A map showing *Frösundaleden 2A, Solna* is available [here](#).

Scope

The symposium will highlight the developments of satellite systems - both improvements of the existing systems and development of new systems.

How will the manufactures of GNSS-equipment adopt their equipment to the new situation and how can the users benefit from this development?

Will the use of GNSS change and which new applications will be possible when the number of available satellites (systems) and the reliability increases?

All presentations will be held in English.

Registration

Register online at <http://www.afconsult.com/GNSS>. Last day to register is Wednesday, October 15th.


Participation is free for members in the Swedish Radio Navigation Board (*Radionavigeringsnämnden*).

Observation members (*Observatörsmedlemmar*) may participate with three persons. Participants outside the Radio Navigation Board will be charged with 1000 SEK. In that case please provide a billing address.

Please direct registration and general symposium questions to rnn@af.se or call +46(0)10 505 20 36.

Programme in short

- 09.00 – 09.20 **Registration and coffee**
Register at the main reception desk at ÅF, Frösundaleden 2A, Solna.
- 09.20 – 09.30 **Opening Remarks**
Rolf Zetterberg, Chairman of the Swedish Radio Navigation Board
- 9.30 – 10.10 **Global Positioning System: Status and Policy Update**
Charles Daniels, Senior Advisor, U.S. National Coordination Office for Space-Based PNT
- 10.10 – 10.50 **Status and Progress of GLONASS**
Sergey Revnivkykh, Central Research Institute of Roscosmos
- 10.50 – 11.00 **Short break**
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- 11.00 – 11.40 **Galileo Programme Status**
Martin Johansson, Payload Manager, ESA GALILEO Project, European Space Agency
- 11.40 – 12.00 **Overview of Compass and regional satellite systems**
Tina Kempe, Research Geodesist, Lantmäteriet
- 12.00 – 13.00 **Lunch**
The symposium guests are invited for a common lunch at a restaurant near the seminar hall.
- 13.00 – 13.20 **EGNOS Applications in Civil Aviation**
Pablo Haro, Aeronautical Engineer, Aena / ESSP
- 13.20 – 13.35 **The Latest Development from Trimble**
Vidar Tangen, Application Engineer Surveying Trimble Nordic
- 13.35 – 13.50 **The Best Strategy to Cope with GNSS Modernization**
Bernhard Richter, Director GPS Program, Leica Geosystems Heerbrugg
- 13.50 – 14.05 **Garmin - Navigation into the Future**
Peter Magnusson, Product Coordinator, Sportmanship International AB
- 14.05 – 14.20 **E-Navigation**
Andreas Arvidsson, Sales Manager Norway, Transas Scandinavia AB
- 14.20 – 14.40 **Performance Based Navigation and the European Navigation Strategy**
Helén Ericson, Luftfartsverket
- 14.40 – 15.00 **Coffee break**
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- 15.00 – 15.20 **Maritime education, Challenges Concerning the Concept of E-navigation**
Erik Sandberg, Maritime Warfare Centre/Kalmar Maritime Academy
- 15.20 – 15.40 **Robustness in GNSS**
Fredrik Eklöf, Swedish Defence Research Agency

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- 15.40 – 16.00 Required Infrastructure for Navigation/Positioning with Centimetre Accuracy
Professor Jan Johansson, Chalmers University of Technology
- 16.00 – 16.15 Open discussion and closing remarks