

Record

NAV 98: Satellite Navigation and Safety

The 1998 International Conference of the Royal Institute of Navigation was held at Church House, Westminster, London on 9–11 December 1998. The full proceedings, comprising the following papers, can be obtained from the RIN Director (£45 to Members, £65 to non-Members. Both exclusive of p & p).

1. Keynote Address (*J. Canny, US Dept of Transportation*).
2. The changing requirements of IMO on the carriage by ships of radionavigation receiving equipment (*P. Kent, IMO Safety of Navigation Committee*).
3. The transition from paper to digital charts (*D. McPherson, UK Hydrographic Office*).
4. Satnav and aviation safety (*J. F. White, International Air Transport Association*).
5. Strategy of the Russian Federation on the use of satellite and terrestrial radionavigation systems (*V. I. Denisov, International Research Technical Centre*).
6. GPS IIF – improvements for international navigation (*S. T. O'Neill, Boeing Information and Communications Systems*).
7. European radiobeacon DGNSS – making the most of the frequency band (*B. D. K. Henaku, AST Consultants*).
8. The COSPAS-SARSAT system (*Flt Lt J. Williamson, Aeronautical Rescue Coordination Centre, RAF Kinloss*).
9. UK SAR system plus 406 MHz ELT implementation (*M. E. J. Russell, National Air Traffic Services*).
10. GNSS/DGNSS as a position sensor – the importance of integrity (*Dr N. Ward, Trinity House Lighthouse Service*).
11. The Collins FMS-800 providing enhanced SAR capabilities to airborne platforms (*G. J. Barnes et al., Rockwell Collins Inc.*).
12. Predicting solar disturbance effects of navigation signals (*Professor M. Lockwood et al., Rutherford Appleton Laboratory*).
13. The rise of solar cycle 23 and navigation systems (*J. M. Kunches, NOAA Space Environment Centre*).
14. Availability of satellite navigation signals (*J. I. R. Owen, DERA Farnborough*).
15. Application of a single-frequency ionosphere model for resolving GLONASS group delay biases (*Dr E. Rooney et al., Signal Computing Ltd.*).
16. DGPS service along the Baltic Sea Polish coastal zone (*Professor Dr S. Oszczak, Olsztyn Institute of Geodesy*).
17. DGPS for the Gulf (*P. Jewell, Middle East Navigation Aids Service*).
18. Technical and programmatic features of the FAA's LAAS (*R. Braff et al., Mitre Corporation*).
19. Eurofix system and its development (*G. W. A. Offermans et al., Delft University of Technology*).
20. Northern European satellite test bed (*A. Schuster-Bruce et al., Racal Research Ltd.*).

21. Displaying satellite navigation information on electronic charts (*P. R. Wood*).
22. GNSS and WGS84 for marine navigation in UK waters (*Dr T. Moore et al., University of Nottingham*).
23. Informing the navigator (*Dr S. Basker, Signal Computing Ltd.*).
24. Charting systems – an open choice (*Dr B. Morris et al., Euronav Navigation*).
25. Analysis of self-organising radio systems for position reporting (*U. Ann et al., Avionik Zentrum Braunschweig*).
26. GNSS SAGE: satnav advisory group of experts (*D. Levy et al., Centre National d'Etudes Spatiales*).
27. Radio spectrum for satellite navigation (*S. Parry, Radiocommunications Agency*).
28. The marine differential GPS service interference issue (*Dr N. Ward, Trinity House Lighthouse Service*).
29. A real-time kinematic dynamic hull stress monitoring, docking and draft measurement system for ships – the concept of hydranav (*C. M. D. Beatty, CBI Ltd.*).
30. Consideration of availability and continuity for GPS precision approach and landing (*T. Sakai et al., Electronic Navigation Research Institute*).
31. A model for the integration of raw GPS phase measurements with low-cost gyroscope measurements for kinematic mapping and navigation (*S. A. Logan et al., The University of Melbourne*).
32. Differential GPS – monitoring results of the 300 kHz beacon system (*W. H. Blanchard, Navigation Consultant*).
33. Safety risk classification schemes for satellite navigation (*P. A. Benstead et al., Airsys ATM*).
34. A sub-1000-ECU PC-based GPS common-view time-transfer unit (*Dr M. S. Ody et al., Signal Computing Ltd.*).
35. An integrated NAV/COM system for Europe (*J. Wolftrum et al., Dornier Satellitensystems GmbH*).
36. Skynav – a GPS augmentation system on board stratospheric platforms (*R. Dellago, Alenia Aerospazio*).
37. A generator of synthetic data for GNSS testing (*J. D. W. Brading, Racal Research Ltd.*).