EUROPEAN NAVIGATION CONFERENCE

2011 CONFERENCE AND EXHIBITION

Grange Tower Bridge Hotel, London E1

29 November – 1 December 2011

ADVANCE NOTICE & CALL FOR PAPERS

Why should you attend this event? ENC 2011 will be the premier event in Europe for the navigation and positioning community. New for 2011 is an increased focus on services, applications, hybrid positioning and legal issues. Technology and system updates will be covered in detail. Network and socialise with industry in a first class and convenient location.
EUROPEAN NAVIGATION CONFERENCE 2011

Hosted by the Royal Institute of Navigation, ENC 2011 will be Europe's premier international navigation conference of the year. It will take place in the spectacular new Grange Tower Bridge Hotel, to be opened in springtime close to the historic Tower of London and Tower Bridge.

The conference will run for 3 full days, mostly in 3 parallel streams, from 29 November to 1 December. There will be a pre-conference day on 28 November for EUGIN, IAIN and other meetings, ending with an Ice-breaker Reception in the exhibition area. There will be a Reception after the first full day’s programme and on the second evening a Conference Dinner will take place. There will also be the opportunity for other meetings on 2 December.

INDUSTRY EXHIBITION
ENC 2011 will host a major exhibition. This will offer a unique opportunity to exhibit products and services to several hundred international delegates over the duration of the conference. The exhibition area will be the venue for the receptions and refreshment/lunch breaks, thus ensuring maximum opportunity for contact with the delegates. The hotel is an excellent location for 'doing business' - a modern, high-quality venue with dedicated rooms for meetings and corporate hospitality.

SPONSORSHIP OPPORTUNITIES
There will be a wide range of sponsorship opportunities with which organisations can be associated – contact the Conference Manager (conference@rin.org.uk) for details.

THE VENUE
London is renowned for its iconic buildings, museums and art galleries, and for its famous department stores and shopping areas - from Piccadilly, Regent and Oxford Streets to Knightsbridge . .

A comprehensive programme for accompanying persons will take advantage of the time of year.
CONFERENCE OBJECTIVES AND THEME

The ENC 2011 international conference will cover advances in all aspects of location and navigation technology and their applications in the digital society. Sessions will be organised into both plenary and parallel sessions which will cover navigation system infrastructure and policy, technical and commercial aspects of varied applications, and safety and security issues.

NAVIGATION TECHNOLOGY
Receivers, antenna technology, algorithms, software and simulation. Interference mitigation, high-sensitivity receivers, multipath, new signals, integrity, carrier-phase positioning. Vulnerability.

NAVIGATION INFRASTRUCTURE
Interoperability, ground- and space-based systems and augmentations.

NAVIGATION POLICY AND COMMERCIAL ISSUES

LOCATION-BASED SERVICES AND GEOSPATIAL INFORMATION
Technology for use in mobile handsets, vehicle route guidance, logistics, asset-tracking and fleet management. Geographic information systems, data handling, geospatial intelligence and telematics.

INDOOR NAVIGATION
High sensitivity receivers, pseudolites, Bluetooth, UWB and WiFi. Signals of opportunity, indoor applications.

AVIATION APPLICATIONS
Commercial, military and general aviation, airspace and route design, RNAV, ADS-B, certification, precision approach and landing, integrity algorithms and monitoring.

MARITIME NAVIGATION
E-navigation. Port entry and docking systems, coastal safety, offshore oil and gas industry navigation, wind farms, navigation techniques. WiMax and 4G applications.

LAND APPLICATIONS
Use and applications for road, rail and other land based domains. Road user charging, active control of vehicles, agriculture and recreational uses. Local search and advertising.

SURVEYING AND GEODESY
Land and hydrographic surveying, airborne mapping and imaging, precise engineering monitoring, geodesy, geodynamics, geology, oceanography, tide monitoring, robotics and machine control.
INTEGRATED NAVIGATION
Inertial sensors and inertial navigation, eLoran, terrain-referenced and visual navigation, UWB and WiFi positioning, dead-reckoning, equipment and algorithm design, integration. Simulation and testing.

TIME AND SPACE APPLICATIONS
Precise timing and time transfer, developments in clock technology and synchronization. Navigation and attitude determination for spacecraft. Space-based user equipment. Orbit prediction and determination.

GOVERNMENT AND SECURITY
Positioning and timing applications, public sector and critical infrastructure, traffic management and enforcement, public safety, national security and intelligence, telecoms and utilities. Forensic and legal issues.

THE ATMOSPHERE
Effects on GNSS and LF signals of the troposphere and ionosphere. Monitoring, evaluation of models, receiver performance, scintillation, gradient delay, tomography, meteorology, space weather.

NOVEL APPLICATIONS
What’s new? What novel applications are being developed or even imagined? Location awareness, augmented reality and gaming. The impact of ubiquitous location on society. Current research on human factors and navigation technology.

SUBMISSION OF PAPERS
Authors should submit a brief outline of their presentation, not exceeding 300 words, through the conference website www.enc2011.org by 9 May 2011. It is appreciated that work on a project to be presented may not be complete on submission. These outlines will be considered by a Papers’ Committee drawn from all EUGIN Institutes. Chosen authors will be informed in June 2011.

PROGRAMME AND REGISTRATION
The Programme and Registration Form will be published in June 2011.

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