## THE CITY OF MANCHESTER

Manchester is a vibrant city with excellent transport facilities - an international airport served by over 100 airlines, fast mainline train services and adjacent motorways. The modern conference centre is in the heart of the city, within a minute's walk of a handful of first-rate hotels. Transport is easy, with airport buses running every 10 minutes and trams, buses and trains run past or are within a short walking distance of the venue.

Manchester has a rich mixture of galleries, museums, sculpture trails, architecture and glorious countryside - and claims to be one of the best places to shop in the UK. A comprehensive programme for accompanying persons will take advantage of these facilities.

## SUBMISSION OF PAPERS

### SYNOPSES

Authors should e-mail a synopsis of 300-500 words, which must include the paper title and name(s), postal and e-mail addresses of the author(s), to the Institute by **7 November 2005**. This will be considered by a Papers' Committee drawn from all EUGIN Institutes. Chosen authors will be invited to prepare a one-page abstract to be available for delegates on arrival and subsequently a full paper for the CD of the proceedings, to be published after the event.

### PROGRAMME AND REGISTRATION

The Programme and Registration Form will be published in January 2006.

### CONTACT DETAILS:


Royal Institute of Navigation
1 Kensington Gore
London
SW7 2AT
Tel: +44 (0)20 7591 3130
Fax: +44 (0)20 7591 3131
conference@rin.org.uk
www.rin.org.uk



### KEY DATES:

Receipt of synopsis - 7 November 2005
Notification to authors - 12 December 2005
Receipt of abstract - 3 April 2006
Receipt of full paper - 10 May 2006 (at the Conference)

Keep updated with the conference website:

***http://www.enc2006.org.uk***

PinpointFaraday
Time and position solutions

ukisc
United Kingdom Industrial Space Committee

ROYAL INSTITUTE OF NAVIGATION

# EUROPEAN NAVIGATION CONFERENCE

## 2006 CONFERENCE AND EXHIBITION

***Manchester International Convention Centre***

***7-10 May 2006***


## ADVANCE NOTICE & CALL FOR PAPERS

***http://www.enc2006.org.uk***

# EUROPEAN NAVIGATION CONFERENCE 2006

Hosted by the Royal Institute of Navigation together with Pinpoint Faraday and the UK Industrial Space Committee, ENC 2006 is Europe's premier navigation conference. It will take place in the spectacular Manchester International Convention Centre.

The conference will run for 3 full days, mostly in 3 parallel streams, on 8-10 May. There will be a pre-conference day on 7 May for EUGIN and IAIN meetings and GNSS Tutorials; the day will end with an Ice-breaker Reception in the exhibition area. There will be a Civic Reception in the Town Hall after the first full day's programme and on the second evening a Gala Dinner will be held at Manchester United's football ground, Old Trafford - with the opportunity to view the hallowed ground and museum during pre-dinner drinks.

## INDUSTRY EXHIBITION

ENC 2006 will host a major exhibition for which there has already been interest from companies both large and small in applications ranging from space to timing.

This will offer a unique opportunity to exhibit your products and services to several hundred international delegates over the duration of the conference. The exhibition area, adjacent to the auditoria, will be the venue for the Ice-breaker Party, coffee and lunch breaks to ensure maximum opportunity for contact with the delegates.

The Centre is an excellent location for 'doing business'. It is a modern, high-quality venue with dedicated rooms for meetings and corporate hospitality.

## SPONSORSHIP OPPORTUNITIES

There is a wide range of sponsorship opportunities with which your organisation can be associated. For example, the all-exclusive 'Gold Package' will be limited to a few organisations, offering the maximum exposure to delegates as well as discounted exhibition space and free delegate places.

Alternatively, your organisation can sponsor one of many social events. Other sponsorship opportunities include:

- Conference literature
- Internet Café
- Audio-visual equipment
- Conference bags
- Ice-breaker Reception
- Gala Dinner
- Teas/coffees and lunches
- Accompanied persons' programme

## CONFERENCE OBJECTIVES AND THEME

The ENC 2006 international conference will cover advances in all aspects of navigation technology and its applications, including the all-important integrity issues. The technical 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.

### GNSS INFRASTRUCTURE
Galileo system development, GPS and GLONASS modernisation, GNSS interoperability, ground-based and space-based augmentations, including EGNOS, WAAS, MSAS, GAGAN, QZSS, Loran-C.

### GNSS POLICY AND COMMERCIAL ISSUES
GNSS policy, GNSS services and markets, radionavigation plans. Spectrum and security.

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

### INTEGRATED NAVIGATION
Inertial sensors and inertial navigation, Loran-C, terrain-referenced and visual navigation, UWB positioning, dead-reckoning, equipment and algorithm design, integration. Simulation and testing.

### SURVEYING AND GEODESY
Land and hydrographic surveying, airborne mapping, geodesy, geodynamics, geology, oceanography, tide monitoring, robotics and machine control.

### ATMOSPHERIC EFFECTS
Effects on GNSS signals of troposphere and ionosphere. Monitoring, evaluation of models, receiver performance, scintillation, gradient delay, tomography, meteorology, space weather.

### 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.

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

### MARITIME NAVIGATION AND AIS APPLICATIONS
Port entry and docking systems, estuary, river and canal navigation, coastal safety, offshore oil and gas industry navigation, wind farms, navigation techniques, human factors.

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

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

### INDOOR NAVIGATION
High sensitivity GNSS receivers, pseudolites, Bluetooth and UWB, indoor applications.

### 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.

### NOVEL APPLICATIONS
What’s new? What novel applications are being developed or even imagined? What will be the impact of ubiquitous location on society?