

**The Faculty of Navigation
Gdynia Maritime University
and
The Nautical Institute
9th International Symposium
on
Marine Navigation
and Safety of
Sea Transportation**

TransNav 2011

Gdynia, 15th to 17th June 2011

The 9th Navigational Symposium will be held in Gdynia, Poland from 15th to 17th June 2011. The Symposium is to be organized by the Faculty of Navigation of the Gdynia Maritime University and The Nautical Institute.

Symposium participants

The Symposium is addressed to scientists and professionals in order to share their expert knowledge, experience and research results concerning all aspects of navigation, safety of navigation and sea transportation. The goal of the TransNav is to bring together experts from the field of navigation, transport, ocean engineering and maritime technology to discuss on the state-of-the-art and to present new research findings and perspectives of future developments with respect to the conference themes.

On-line registration and abstract submission

The Organizing Committee welcomes the online registration and submission of abstracts and full papers through the Symposium homepage <http://transnav.am.gdynia.pl> for oral or poster presentations at the Symposium. Authors of papers are invited to submit filled application forms to the Symposium Office at our web site together with papers' abstracts for consideration by the Scientific Programme Committee.

Paper submission

Only papers not previously published or submitted for presentation at another national or international meeting will be accepted. All papers will be refereed by at least two members of the Scientific Programme Committee. The limit for each paper is eight pages.

Symposium Proceedings

Papers submitted on time will be published in the Transnav Symposium Proceedings - series of a few monographs under the common title: *Advances in Marine Navigation and Safety of Sea Transportation*. Some excellent papers will be recommended for publication in professional journals.

Symposium language

The official language of the Symposium is English (no translation is provided).

Symposium Venue

Information about the Symposium venue and hotel accommodation is available at the web site: <http://transnav.am.gdynia.pl>. Due to summer season it is suggested delegates book hotel rooms as soon as possible after paper acceptance.

Round Table Plenary Session

The Organizing Committee has informed that 15th of June, the First Day of Symposium, will be organized the Round Table Panel Discussion under chairmanship of Prof. Vidal Ashkenazi, (UK). The title of Round Table Plenary Session will be announced later.

Symposium main topics:

- Marine navigation
- Safety and security of maritime shipping
- Sea transport and transportation technology
- Technology development in maritime and ocean engineering
- Safety and environment protection at sea
- Recent trends and future perspectives for shipping
- Hydrography, geodesy and marine cartography
- Geodetic and hydrographical support of human activity at sea
- Geomatics and GIS in maritime applications
- Spatial data analysis
- Electronic chart systems ECS and ECDIS
- Inland, sea-river, river and pilot navigation systems

- Presentation of navigation-related information
- Route planning and monitoring; passage plan
- Integration of navigational systems INS / Integrated bridge systems IBS
- e-Navigation concept
- Satellite navigation (e.g., GNSS, GPS, GLONASS and Galileo)
- Celestial navigation
- Determining the position of a vessel
- Radio based navigational systems
- Telematics in maritime transportation
- Automation aspects in navigation
- Techniques, algorithms and methods
- Ships routing and associated protected measures
- Hydro-technical structures
- Ocean engineering and ship technology
- Ships and port operations, facilities and cargo handling
- Port engineering
- Safety of port operations
- Maritime traffic engineering
- Organization and management of vessel traffic
- Systems of control, guidance and monitoring of traffic, VTS
- Virtual aids to navigation
- Manoeuvrability and hydrodynamics of ships
- Ship dynamics and stability
- Radar equipment, ARPA, AIS, VDR
- Colregs, ship handling and anti-collision
- Intelligence, surveillance and reconnaissance
- Radio frequency technology
- Maritime search and rescue issues
- Life-saving service
- Sea pollution and environmental protection*
- Human factors, marine accidents, human errors
- Crew resource management, safe manning, stress and fatigue
- Navigational systems - the end user experience
- Systems modelling and simulation
- Marine simulation; full mission bridge, navigational simulator
- Computer-based assessments in seafaring training
- Standardization of navigational terminology
- Maritime education and training; model courses validation
- Frontiers in educational methods

- New researches in the history of navigation
- Meteorology and nautical oceanography
- Climate change
- Tropical cyclones and impact of extreme storms
- Polar research, safe and sustainable traffic in ice/winter conditions
- Acoustic remote sensing
- Coastal zone management
- Marine & coastal protected areas
- Advanced maritime policy and governance
- Maritime law, insurance and arbitration
- International standards and regulation
- Information and communications
- Computer applications in maritime engineering
- Information processing and engineering
- Network & communication technologies
- Signal & image processing
- Decision support systems and artificial intelligence methods in maritime transport
- Intelligent control system of ships dynamic positioning
- Underwater acoustic measurements: technologies, methods and systems
- Maritime sensors, technology and infrastructure in waterside security
- Maritime intelligent transportation systems
- Data transmission and processing
- Modelling and numeric methods in maritime industry
- Application and evaluation studies
- Mathematical model applications in the operation of vessel and port machinery
- Mathematical fundamentals of safety and dependability, maintainability of maritime objects
- System availability, software and structural reliability
- Safety, security and risk management
- Risk and safety analysis, assessment and prediction
- Transportation planning and management
- Impact of economic recession on maritime transport
- Maritime transport and logistics systems
- New maritime technologies

Symposium important dates and deadlines:

1st October 2010

Deadline for conference registration and abstract submission (on-line registration through the website: <http://transnav.am.gdynia.pl>)

1st November 2010

2nd Announcement

Confirmation of applications and notification of authors

1st February 2011

Submission of final camera-ready papers deadline

1st March 2011

Announcement of papers acceptance

1st April 2011

3rd Announcement

Information on the preliminary Symposium's Programme

1st June 2011

4th Announcement - final version of Symposium Programme, Chairmen's list confirmation

15th June 2011

The First Day of Symposium (Wednesday)

Opening ceremony, plenary session, round table panel discussion and parallel provided specialist sessions

16th June 2011

The Second Day of Symposium (Thursday)

Parallel provided specialist sessions and poster sessions

17th

June 2011

The Third Day of Symposium (Friday)

Parallel provided specialist sessions and poster sessions, plenary session and closing ceremony

18th June 2011

Day after Symposium (Saturday)

Touristic trip to Malbork Castle and Ship Handling Research and Training Centre in Ilawa