

**International Association of Institutes of Navigation (IAIN)  
&  
Arab Institute of Navigation (AIN)**

**The 14<sup>th</sup> IAIN Congress 2012**

**Seamless Navigation**

**(Challenges & Opportunities)**

**1-3 October, 2012**

**Cairo, Egypt**

**Submission Deadline**

**April 15, 2012**

**Organized by**

**Arab Institute of Navigation (AIN)**

**On behalf of**

**International Association of Institutes of Navigation  
(IAIN)**



**T**he Arab Institute of Navigation is honored to host the tri-annual Congress of the International Association of Institutes of Navigation “IAIN” in Cairo – Egypt, 1-3 October, 2012.

We invite and welcome colleagues, scientists and experts from around the globe to participate in this unique major international conference.

The International Association of Institute of Navigation “IAIN” aims to foster human activities at sea, in the air, in the space and land that many benefit from the development of the science and practice of navigation.

The venue will be in Cairo, the city of wonders with its civilization, culture and fascinating history is the largest capital in the Arab world. Cairo encompasses various historic and touristic attractions as well as modern landmarks for pre and post conference sightseeing and visits.

The organizing committee wishes you a fruitful participation and pleasant stay in Cairo.

## Subject Coverage

Although broad in coverage, Proposals for special sessions and conceptual and empirical papers in the following areas are particularly invited:

- GNSS Meteorology
- Marine Navigation
- GNSS Errors and Biases
- GNSS Signal Protection
- E-Navigation Concept
- GNSS Precise Point Positioning
- Alternative Non-GNSS Systems
- Integrated Navigation Systems
- Indoor Navigation Technology
- Intelligent Transport Systems
- Portable Navigation Systems
- GNSS Receiver Technology
- Timing & Synchronization
- Mapping, Surveying and Geodesy
- Signal and Image Processing
- Virtual Aids to Navigation
- Maritime Traffic Engineering
- Radio Frequency Technology
- System Certification and Regulatory Service
- Underwater Acoustic Measurements
- Freight Maritime and Rail Transportation
- Mobile Vehicle Tracking and Monitoring
- Electronic Chart Systems ECS and ECDIS
- GNSS Training, Awareness and Promotion
- GNSS Interference, Jamming, and Spoofing
- Network and Communication Technologies
- Land, Marine and Air Applications Developments
- GNSS Ground - and Space - Based Augmentations
- Risk and Safety Analysis, Assessment and Prediction
- Inland, Sea-river, River and Pilot Navigation Systems
- Algorithms and Methods for Multi- Constellation Positioning
- Global Navigation Satellite Systems (GNSS): Present and future Development

### Submission

Authors are invited to submit original research papers, case studies, reviews, work in progress reports, abstracts, students' papers or research proposals within the broad scope of the conference. All submitted papers will be double blind reviewed consideration in the conference. **All manuscripts should be professionally proofread before the submission.** The best papers from the conference will be recognized and will be considered for publication in the *Journal of the Arab Institute of Navigation* (AIN Journal)

### Please note:

- ✓ No paper to be accepted after **15<sup>th</sup> April 2012.**
- ✓ Papers with **more than three authors will not be accepted.**
- ✓ Papers should be submitted electronically through online system as e-mail attachment to **ain@aast.edu**

### Important Dates

Deadline for Abstracts Submission: **15<sup>th</sup> April 2012**  
Notification of Acceptance:  
**20<sup>th</sup> May 2012**  
Full Paper Submission:  
**05<sup>th</sup> August 2012**

## Conference Scientific Committee

**Dr. Refaat Rashad**, IAIN President, AIN President

- **Mr. Raymond Clore**, Office of Space and Advanced Technology, US Department of State, Washington, DC, USA
- **Prof. Yang Gao** – University of Calgary, Canada
- **Prof. Moustafa A. Baraka** – Cairo University, Egypt
- **Prof. Dr. - Ing. Peter Voersmann** – President - German Institute of Navigation (DGON)
- **Prof. Saburo Tsuruta** – President - Japan Institute of Navigation (JIN)
- **Prof. Dr. Andrezj Felski** – President - Polish Navigation Forum
- **Sr. Jesus Carbajosa Menendez** – President - Instituto de Navegacion de Espana (INE)

- **Colin Beatty** – President - Royal Institute of Navigation (RIN)
- **Capt. Ian. Watkins RAIN** – President - Australian Institute of Navigation (AIN)
- **Hong Chanxiang** – President - China Institute of Navigation (CIN)
- **Dr. Rim Yong Hwa** – President - North Korean Institute of Navigation (NKIN)
- **Yves Desnoes** – President - Institut Francais de Navigation (IFN)
- **Prof. Giorgio Franceschetti** – President - Istituto Italiano di Navigazione (IIN)
- **Gap Sook-Lee** – President - Korean Institute of Navigation and Port Research (KINPR)
- **Lars E. Magnusson** – President - Nordic Institute of Navigation (NNF)

▪ **Dr. Sc. Yury A. Soloviev** – President - Russian Public Institute of Navigation (RPIN)

▪ **Bertrand Merminod** – President – Swiss Institute of Navigation (ION-CH)

▪ **Dr. Todd Walter** – President – US Institute of Navigation (USION)

### Organizing Committee

▪ **Dr. Refaat Rashad** - IAIN President, AIN President

▪ **Dr. Ahmed El Rabbany** – Professor, Ryerson University, Canada

▪ **Elisabeth Klaffenböck** - Senior Vice President of IAIN, Austrian Institute of Navigation (OVN)

▪ **Carl Andren** - Vice President of IAIN, United States Institute of Navigation (US ION)

▪ **Frantisek Vejrazka** – Vice President of IAIN, Czech Institute of Navigation (CZIN)

▪ **Yasou Arai** - Vice President of IAIN, Japan Institute of Navigation (JIN)

▪ **David Broughton** - Secretary General of IAIN, Royal Institute of Navigation (RIN)

▪ **Rein van Gooswilligen** – Treasurer of IAIN, President, Netherlands Institute of Navigation (NIN)

▪ **Dick Smith** – immediate Past-President of IAIN, Royal Institute of Navigation (RIN)

▪ **Boris Rivkin** - Associate Members Representative of IAIN, Academy of Navigation and Motion Control (ANMC)

▪ **Capt. Hisham Helal** – AIN Officers Member, Egypt

### Registration

Each conference participant is required to pay the registration fee EUR 750. This covers conference attendance, conference Publications, pre-conference reception and the Gala Banquet, and conference attendance certificate.

Details	Fee
Participant before 15 <sup>th</sup> August 2012	EUR 750
Participant after 15 <sup>th</sup> August 2012	EUR 800
Spouse	EUR 350
Student	EUR 500
Old members of Melaha 2008 - 2010	EUR 650

## Technical Exhibition

The Exhibition is organized for the companies, Institutions and individual persons, who want to take this opportunity to show and present their products for potential customers. Take a chance to show your products or ideas for Navigation and Transportation Purpose.

## Poster Session

If too many papers are offered, the program committee will propose contribution to a poster session. If the authors agree them poster will be published in the Conference proceedings.

## Executive Committee

- Dr. Refaat Rashad, president  
Email: [refaat.r@hotmail.com](mailto:refaat.r@hotmail.com)
- Prof. Ahmed El Rabbany  
Email: [rabbany@ryerson.ca](mailto:rabbany@ryerson.ca)
- Mrs. Nagwa Rekaby  
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## Conference Organizer

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**Website:** [www.ainegypt.org](http://www.ainegypt.org)

**Conference Website:** [www.iaincongress2012.org](http://www.iaincongress2012.org)