

The Institute of Navigation

Dr. Mikel M. Miller
ION President



*The World's Premier Professional Organization for the
Advancement of Positioning, Navigation and Timing.*

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Upcoming Events



May 4-6, 2010 - Indian Wells (Palm Springs), California
IEEE/ION PLANS 2010

[▶ Technical Program](#) [▶ Exhibit Information](#) [▶ Registration](#)
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June 8-10, 2010 - Orlando, Florida

News/Announcements

January 27, 2010

[ION Announces 2009 Annual Awards Recipients](#)

The ION announced the 2009 Annual Awards recipients at its 2010 International Technical Meeting in San Diego, CA.

January 27, 2010

[ION names 2010 Fellows](#)

The ION granted Fellow Membership to three ION members at its 2010 International Technical Meeting in San Diego, CA.

October 20, 2009

[Video of ION GNSS 2009 panel sessions](#)

ION GNSS 2009 panel sessions are online. Topics include Program Updates, SVN-49 Review, and more.

International Activities

- The Institute's work is international in character and is coordinated with similar organizations in other countries through the International Association of Institutes of Navigation (IAIN) of which the ION is a founder member.
- The IAIN is represented on international bodies such as:
 - International Maritime Organization (IMO)
 - International Civil Aviation Organization (ICAO)
 - International Hydrographic Organization (IHO)
 - International GNSS Committee (ICG)



African Workshop



Satellite Navigation Science and Technology for Africa

23 March - 9 April 2009

ICTP, Trieste - Italy



Student Outreach

- ION Graduate Award Program
 - Universities Participating: Ohio University, The Ohio State University, Miami University, University of Calgary, University of Colorado, California State Poly and Air Force Institute of Technology
- Student Sections
 - Student Awards for Navigation Excellence at U.S. Academies
- Student Paper Sponsorship at ION Meetings
 - 26 students selected for GNSS 2009 for travel sponsorship and complimentary full registration. All students were from outside the U.S.
- High School Student Programs
 - Education Modules for Middle Schools



ION Robotic Lawnmower Competition

- The purpose of this competition is to design and operate a robotic unmanned lawn mower using the art and science of navigation to rapidly and accurately mow a field of grass.
- In the competition the lawn mowers maneuver through a mock lawn:
 - Cutting grass
 - Avoiding static obstacles like a flower bed
 - Avoiding moving obstacles like a pet dog
 - Traveling along a fence line



Lawnmower Competition Cont.

- The 7th Annual Robotic Lawnmower competition will be held Jun 5-6, 2009 near Dayton, Ohio
- Competition offers a first prize award of \$15,000 and second and third prize awards of \$10,000 and \$5000 respective



Mini-Urban Challenge

- The purpose of this competition is to challenge high school students to design and operate a robotic unmanned car built from a LEGO® MindStorms kit that can accurately navigate through a LEGO® city.
- In the competition the LEGO® cars will maneuver through a mock LEGO® city:
 - Driving along the roads
 - Stopping at stores
 - Following traffic signs (stop signs, speed limits, etc.)
 - Avoiding pedestrians







IEEE PLANS 2010

ION[®] POSITION LOCATION AND NAVIGATION SYMPOSIUM

MAY 3-6, 2010

◆ RENAISSANCE ESERALDA RESORT & SPA

◆ INDIAN WELLS/PALM SPRINGS, CA

◆ MAY 3-6, 2010



GUIDANCE, NAVIGATION & CONTROL




Co-Sponsored By:
Joint Services Data Exchange (JSDE)
& The Institute of Navigation (ION)

2010 JOINT NAVIGATION CONFERENCE

June 8-10, 2010 • Tutorials June 7

Wyndham Orlando Resort • Orlando, FL







ION GNSS 2010

September 21-24, 2010

CGSIC Symposium & Pre-Conference Tutorials
September 20 & 21
Oregon Convention Center • Portland, Oregon




Abstracts Due March 12, 2010 **www.ion.org**



Program Chair:
Pat Doherty

ION Membership

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