

MINUTES OF THE
OUT-GOING COUNCIL MEETING
(January 24, 2010)

Subject to the approval of the ION Council the following minutes are submitted. The Council Meeting was called to order on January 24, 2010 at the Catamaran Resort Hotel, San Diego, CA at 1:00 p.m. Those present were:

VOTING COUNCIL MEMBERS:

<u>Name</u>	<u>Out-Going Office Held</u>	<u>In-Coming Office Held</u>
Mikel Miller	President	President
Todd Walter	Executive VP/ Strategic Planning Chair	Executive VP/ Strategic Planning
John Betz	Treasurer	Treasurer
Patricia Doherty	Eastern VP/New England Sec Chair	Eastern VP/New England Sec Chair
John Clark	Western VP	Western VP
Chris Hegarty	Immediate Past President	Immediate Past President
Jade Morton	Eastern Council M-at-L	Eastern Council M-at-L
Clyde Edgar	Western Council M-at-L	
Frank Czopek	Western Council M-at-L	Western Council M-at-L
Richard Hartnett	Marine Rep.	
Doug Taggart	Marine Rep.	Marine Rep.
Tim Murphy	Air Rep.	
Frank Lorge	Air Rep.	Air Rep.
Frank van Graas	Meetings Chair/Past President	Meetings Chair/Past President
Maarten Uijt de Haag	Finance Chair	Finance Chair
Chuck Bye	Bylaws Chair/No. Star Section Chair	Bylaws Chair/No. Star Section Chair
Chuck Schue	DC Section Chair	DC Section Chair
Don Venable	Dayton Section Chair	Dayton Section Chair
Jerry Knight	So. Cal. Section Chair	So. Cal. Section Chair
Jim Doherty	Past President	Past President
Dick Greenspan	Past President	Past President
Ron Hatch	Past President	Past President
Larry Hothem	Past President	Past President
John Lavrakas	Past President	Past President
Karen Van Dyke	Past President/Fellows Chair	Past President/Fellows Chair
Phil Ward	Past President	Past President

VOTING MEMBERS AT IN-COMING COUNCIL:

<u>Name</u>	<u>In-Coming Position</u>
Joe Chop	Marine Rep.
John Nielson	Western Council M-at-L
Larry Young	Space Rep.

NON-VOTING MEMBERS:

<u>Name</u>	<u>Out-Going Position Held</u>	<u>In-Coming Position Held</u>
Lisa Beaty	Director of Operations	Director of Operations
Carl Andren	Technical Director	Technical Director

It was determined that a quorum was achieved. Those present were advised that only out-going council members, consisting of out-going elected officers, standing committee chairs, section chairs and past presidents, should vote during the out-going council meeting and vice versa for the in-coming council meeting.

AGENDA

See Attached File: [Agenda – January 2010.doc](#)

Approval June 2009 Council Meeting Minutes: M. Miller

Motion: Council approves the June 2009 Council Meeting Minutes as submitted. Motion made by Doug Taggart, seconded by Frank Czopek and passed by Council.

President's Report: M. Miller

See
Attached
File:
[President's Report Jan 2010.doc](#)

Mikel Miller, President, reviewed his report with Council and requested the Council take action for ION to officially endorse the GNC Miniature Autonomous Systems Workshop as an ION event, which he proposed be expanded to include all autonomous weapons with the following motion:

Motion: Council officially endorses the GNC Challenges for Autonomous Weapons Workshop as an ION event, serving the military component of ION's membership, with responsibility for the technical program continuing to come from AFRL and DoD. The next workshop will be held in October 2010, following which the workshop will be held every other year in even years. Motion made by Mikel Miller, seconded by Larry Hothem and passed by the Council.

Mikel Miller reported that he would like to continue to work on the same goals established in 2009, namely:

1. Increase ION membership by a minimum of 10% with a focus on corporate membership.
2. Increase international participation in ION activities and increase ION's international visibility.
3. Actively seek opportunities for the ION to sponsor or facilitate workshops that provide a forum for discussion, debate and the dissemination of information related to PNT.
4. Grow the ION's educational programs for the next generation of PNT professionals and ION members.

The report was concluded with a round of applause for Miller's outstanding year.

Executive VP Report: T. Walter

Todd Walter, Executive VP, reported that during his past year as ION Executive VP he had attended and taught at the 2009 workshop to help implement GPS in Africa, taken action to update the Strategic Plan, worked to revitalize the ION's Conference Committee and attended and spoke at an Alberta section meeting.

It was reported that action had been taken in September to update the ION's Strategic Plan that had not been updated and approved by Council since 2005. It was reported that the Strategic Planning Committee had met in September 2009 and reviewed notes from past presidents Chris Hegarty and John Lavrakas and made additional updates to the plan that was then circulated to the entire Council for advance review in November 2009.

See Attached Files: [Strategic Plan Draft as of 9-24-09.doc](#)

Motion: Council approves the 9-24-09 version of the Strategic Plan as submitted. Motion made by Todd Walter, seconded by John Lavrakas and passed by Council.

For Updated Plan See: [Strategic Plan Approved by Council 1-24-10.doc](#)

Dr. Walter reported that the Conference Committee had met in September 2009. The goals of the Conference Committee were to assist the ION program chairs in ensuring that the ION's technical programs reflect the latest technology; and to encourage colleagues to present papers on specific topics to ensure timely and relevant technical content. Committee membership includes the ION's land, air, space and marine reps. It was reported that the committee was still "finding its feet" but is enthusiastic in supporting the ION's program chairs for upcoming conferences.

Eastern Region VP Report: P. Doherty

See Attached File: [Eastern Region VP Report.docx](#)

Pat Doherty expressed concern that she had not been able to get any response by the Philadelphia Section and reported she intended to send one more e-mail request to see if anyone in the Philadelphia Section is interested in revitalizing the section and if not she would recommend that the Philadelphia Section be formally disbanded.

Action: The National Office to send Pat Doherty a current contact listing of ION members in the Philadelphia Section boundaries. If a new champion of the Philadelphia Section can not be identified then she will recommend that the section be formally dissolved.

Western Region VP Report: J. Clark

John Clark, Western Region VP, reported that the Western Region's sections seemed to be in relatively good shape with the exception of the New Mexico Section that has lost its section chair and most of its active membership.

Nominating Committee Report/Election Results: C. Hegarty

See Attached File: [Nominating Report 2010.doc](#)

Chris Hegarty, Nominations Chair, reported that this year's committee was made up of Chris Hegarty (chair), Jim Doherty, Karen Van Dyke and Mikel Miller from the Eastern Region; and John Lavrakas, Phil Ward and A.J. Van Dierendonck from the Western Region.

The National Office had indicated that it would be helpful from their perspective to have the Executive Committee serve a two-year term similar to the other elected Council positions. This had been discussed at the June 2009 Council meeting to make this the norm. The motion to enact this change did not pass, in part because it was noted that the current Bylaws permit Executive Committee members to serve two consecutive one-year terms. The Nominating Committee proposed that the election slate for 2010 include all of the current Executive Committee members running unopposed. The remaining elected Council slate was developed based on the ION's database of potential nominees for Council positions, as well as recommendations from ION members. The committee rank-ordered nominees for each non-Executive Committee Council position through a voting process. The top two candidates for each non-Executive Committee Council position are listed and the results of the election for the 2010 ION Council are listed below.

2010 Nominees:

President:

Dr. Mikel Miller, *Air Force Research Laboratory*

Executive Vice President:

Dr. Todd Walter, *Stanford University*

Treasurer:

Dr. John Betz, *The MITRE Corporation*

Eastern Region Vice President:

Ms. Patricia Doherty, *Boston College*

Western Region Vice President:

Mr. John Clark, *The Aerospace Corporation*

Eastern Council Member-at-Large:

Ms. Carolyn McDonald, *NavTechGPS*

Dr. Jade Morton, *Miami University*

Western Council Member-at-Large:

Mr. Clyde Edgar, *The Aerospace Corporation*

Mr. John Nielson, *Rockwell Collins*

Space Representative:

Mr. James Miller, *NASA Headquarters*

Dr. Larry Young, *Jet Propulsion Laboratory*

Air Representative:

Lt. Casey Miller, *Air Force Research Laboratory*

Dr. John Studenny, *CMC Electronics, Inc., Canada*

Land Representative:

Dr. Dorota Grejner-Brzezinska, *The Ohio State University*
 Dr. Frank van Diggelen, *Broadcom*

Marine Representative:
 CDR Joe Chop, *US Coast Guard*
 Dr. Sherman Lo, *Stanford University*

2010 Elected Officers:

President: Dr. Mikel Miller, *Air Force Research Laboratory*
 Executive Vice President: Dr. Todd Walter, *Stanford University*
 Treasurer: Mr. John Betz, *The MITRE Corporation*

Eastern Region Vice President: Ms. Patricia Doherty, *Boston College*
 Western Region Vice President: Mr. John Clark, *The Aerospace Corporation*

Eastern Council Member-at-Large: Dr. Jade Morton, *Miami University*
 Western Council Member-at-Large: Mr. John Nielson, *Rockwell Collins*

Space Representative: Dr. Lawrence Young, *Jet Propulsion Laboratory*
 Air Representative: Dr. John Studenny, *CMC Electronics, Inc., Canada*
 Land Representative: Dr. Dorota Grejner-Brzezinska, *Ohio State University*
 Marine Representative: Commander Joe Chop, *U.S. Coast Guard*

Annual Awards Committee Report /Approval: T. Walter

Todd Walter, Awards Chair, reported that the following recipients were selected by this year's Annual Awards Committee:

Early Achievement Award: Dr. José Ángel Ávila Rodríguez, *University FAF Munich, Germany*

Norman P. Hays Award: Col. David W. Madden, *US Air Force*

Superior Achievement Award: Capt. James R. Pancoe, *4TH Special Operations Squadron, US Air Force*

Thomas L. Thurlow Award: Dr. Dennis M. Akos, *University of Colorado.*

Tycho Brahe Award: Is not being given this year due to lack of nominations.

Captain P.V.H. Weems Award: Mr. Edward H. Martin, *Retired*

Burka Award (selected by the editor and associated editors of NAVIGATION): Denis Laurichesse, Flavien Mercier, Jean-Paul Berthias, Patrick Broca & Luca Cerri for their paper "Integer Ambiguity Resolution on Undifferenced GPS Phase Measurements and its Application to PPP and Satellite Precise Orbit Determination" published in the Summer 2009 issue of NAVIGATION, Journal of The Institute of Navigation, Vol. 56, No. 2, pp 135.

Motion: The Council approves the 2009 Annual Awards recipients as outlined above. Motion made by Todd Walter, seconded by Pat Doherty and passed by the Council.

Dr. Walter reported that the committee felt that overall there was a shortage of nominees and asked Council to think about deserving individuals who meet the eligibility criteria and consider them for nomination next year, especially in the category of space navigation for the Tycho Brahe Award.

Fellow Selection Committee Report/Approval: K. Van Dyke

See Attached File: [Fellow Selection Committee Report 2010.doc](#)

Karen Van Dyke, Fellow Selection Committee Chair, reported that membership of the 2010 ION Fellow Selection Committee had consisted of the following ION Fellows: Karen Van Dyke (Chair), John Betz, Mike Braasch, Duncan Cox, Jim Doherty and Marvin May.

The Fellow Selection Committee recommended the following to be inducted as Fellows in 2010: Dr. Raynor Dumcombe, John Lavrakas and Dr. Boris Pervan. It was noted that no honorary or posthumous fellows were elected in 2010.

Motion: Council elects Dr. Raynor Dumcombe, John Lavrakas and Dr. Boris Pervan as the ION's 2010 Fellows. Motion made by Karen Van Dyke, seconded by Phil Ward and passed by the Council.

It was reported that the committee appreciated the ION National Office following up on the recommendation from the 2009 Fellow Selection Committee to provide information on secondary factors for consideration for the Fellow nominations including: level of current/past participation on ION Council; level of participation in ION conference organization; and how long each nominee had been an ION member. The observation was made that non-Canadian international nominees are at a disadvantage as they can not serve on the ION Council.

Additional recommendations were made for future years that:

- The ION National Office to indicate the previous years in which the nomination has been considered by the Fellow Selection Committee.
- The ION provide guidance for those who serve as references on a nomination to provide information on why they believe the nominee should be selected as an ION Fellow.

Action: The ION National Office will indicate to the Fellow Selection Committee the previous years in which each nomination has been considered. The National Office shall also make instructions more complete as to information that should be included in reference letters.

It was also noted that the Fellow Selection Committee was pleased that the increase in ION membership permitted the selection of three Fellows in 2010.

There was some discussion as to whether or not the ION excluded international members (from outside U.S. and Canada) because one of the external factors considered was service on ION Council. Larry Hothem suggested ION put an international Council Member-at-Large (from outside the U.S. or Canada) on ION Council. It was proposed that Larry Hothem work with Chuck

Bye, Bylaws Chair, on drafting a proposal to include international reps on ION Council for presentation at the May 2010 Council meeting.

Action: Larry Hothem accepted the action to form a committee and make a proposal at the May 2010 Council Meeting as to how to incorporate an International Council Member-at-Large on the ION Council. It was suggested that the Bylaws Chair (Chuck Bye), Satellite Division Chair (Pratap Misra) and a few past presidents (to include John Lavrakas) participate on the committee. Committee shall report at the May 2010 Council meeting.

Publication Report: B. Pervan

Carl Andren reviewed the report provided by Boris Pervan. See Attached File: [Publication Chair Journal Report 2010.doc](#)

Todd Walter suggested that having standardized citations may help in ION being referenced correctly for SCI indexing.

Action: The National Office add a column with a “click and paste” function that standardizes and provides proper indexing references for ION journal and conference papers. Additionally, if a journal version of conference paper exists then the site should point to the journal version for proper citation.

Action: Proper citation for all journal and conference papers needs to be added to author kits for both the journal and ION conferences. Encourage use of our main journal title *NAVIGATION* or *Navigation*, rather than the subtitle Journal of the Institute of Navigation, to help avoid mis-citation issues with Journal of Navigation (U.K.). References should be numbered consecutively in the text with numbers in brackets and appear in the format shown below:

Higgins, M. and Harrell, D. M., “Integrated Navigation for Deep Ocean Positioning,” *NAVIGATION*, Vol. 35, No. 1, Spring 1988, pp. 7-9.

Maarten Uijt de Haag, editor of the red book volume *Integrated Systems* reported that the book is ready and waiting on copyright forms.

Action: Maarten Uijt de Haag accepted the action to collect copyright release forms from all Integrated Systems red book authors. Lisa Beaty to provide him with updated copyright release form for the volume. Maarten shall forward electronic version of all author edited papers with release forms to Lisa who will then forward them to Fiona Walter for technical editing prior to the volume’s production.

Meetings Report: F. van Graas

See Attached File: [Meetings Report.ppt](#)

Dr. Frank van Graas, Meetings Chair, reviewed the dates of upcoming ION meetings available on the ION’s web site. He further reported that the partnership efforts with the IEEE for PLANS 2010 and the JSDE for the JNC 2010 were progressing smoothly.

It was also reported that ION had been a technical co-sponsor of the 2009 Mobile Mapping Technology Symposium, Brazil and was requesting that ION co-sponsor the 2011 event in Cracow, Poland, June 13-16. Lisa Beaty reported that the Mobile Mapping Symposium met the guidelines of the ION's technical co-sponsorship policy and that Dorota Brzezinska was the acting liaison between the two organizations.

Motion: **The ION become a technical co-sponsor of the next Mobile Mapping Technology Symposium will be held in Cracow, Poland, June 13-16, 2011.**
 Motion made by Phil Ward, seconded by Mikel Miller and passed by the Council.

Membership Report: D. Brzezinska

See Attached Files: [Membership Report.doc](#)

Dorota Brzezinski, Membership Chair, was unable to attend the meeting but provided the following report:

“I am pleased to report that as of Dec. 31, 2009, ION membership, excluding library subscriptions, is up to 2537 members. This represents a 35% increase over Dec. 31, 2008 numbers. Corporate membership increased from 69 organizations in 2008 (represented by 337 designees) to 108 organizations in 2009 (represented by 556 designees). Professional members increased from 1251 total members in 2008 to 1622 members in 2009. This 35% increase is over three times our goal as outlined in the ION's Strategic Plan.

I attribute our membership growth to ION investing staff resources in membership retention and recruitment, aggressively marketing corporate membership to the ION's exhibitor list, making personal membership renewal telephone calls as individual memberships expires, conducting direct membership mail campaigns, running membership recruitment programs at ION meetings and directly involving the ION Council in membership recruitment efforts.

I would like to thank the ION staff and those who helped with the membership recruitment programs at ION meetings for their extraordinary effort!”

Education Committee Report: A. Soloviev

Dr. Soloviev was unable to attend the Council meeting.

Mikel Miller reported that the Mini-Urban Challenge competition being held the last week of January in Louisiana would take place with twenty teams.

Treasurer's Report: J. Betz

Financial Statements & Audit Report for FY 2008-'09:

See Attached Files: [FY 08-09 Financial Statement.pdf](#)
[FY 08-09 SAS 112 Letter.pdf](#)

[FY 08-09 SAS 114 Letter.pdf](#)
[6 Year Totals 3-31-2009.ppt](#)

John Betz, Treasurer, stated the prepared materials for the ION's 2008-'09 fiscal year had been reviewed by the Executive Committee in July 2009 via telecon with the National Office and the ION's auditor and again at the September 25, 2009 Executive Committee meeting.

John Betz briefly summarized the materials circulated and reported that the ION's auditors had conducted a thorough audit of the 2008-'09 fiscal year and found no abnormalities.

Motion: Council accepts FY 2008-'09 Audit Report and Audited Financial Statements prepared by LarsonAllen, CPA's, as submitted. Motion made by John Lavrakas, seconded by Doug Taggart and passed by Council.

Status of ION's Investments:

See Attached Files: [Reserve Fund Status as of 12-31-09.pdf](#)

It was noted that since March 31, 2009 the ION's investments had increased by 35.8%.

John Betz reported to Council that during a December 23, 2009 Executive Committee budget telecon the Executive Committee had authorized Lisa Beaty to liquidate \$154K from the ION's long term investment fund to meet the FY '10-'11 budget deficit and new initiatives expenses, which would also serve to rebalance the ION's investments accounts.

Approval of 2009-'10 Budget:

See Attached Files: [Budget 2010-11.pdf](#)
[Budget Presentation 2010-'11.ppt](#)

Motion: Council approves the ION 2010-'11 National Budget as submitted; and ratifies the Executive Committee's motion to liquidate \$154K from the ION's long term investment account. Motion made by Chris Hegarty, seconded by Maarten Uijt de Haag and passed by the Council.

Conflict of Interest Disclosures for 2010:

Lisa Beaty reviewed the Conflict of Interest Disclosure form for 2010 and request Council members present complete the form and submit it prior to the end of the Council meeting.

See Attached File: [Conflict of Interest 2010.pdf](#)

Appointment ITM 2012 Program Chair: M. Miller

Mikel Miller advised Council that Dr. Jade Morton, University of Miami (Ohio), had been appointed as the ITM 2011 Program Chair.

Motion: Council approves Dr. Jade Morton as the ITM 2011 Program Chair. Motion made by Mikel Miller, seconded by Pat Doherty and passed by Council.

OTHER BUSINESS

Status Smithsonian Exhibit: "Navigation & Time": J. Doherty

See Attached File: [TimeandNav.pdf](#)

Jim Doherty reported that to date the ION had donated \$50,000 towards the Smithsonian's Navigation & Time exhibit, a very significant contribution for an organization of the Institute's size. Jim reported that the Smithsonian had asked the ION for additional funds to help them raise the remainder of the donations required to finish the exhibit and displayed a sample of the exhibit donors' plaque. Upon review of how the donors were to be listed on the donor plaque and in printed brochures there ensued considerable discussion, and some disappointment, among the Council regarding the font size of the Institute's name on the exhibit's donor plaque. Several suggested they would prefer to have the ION listed at the bottom of the plaque with the words "founding donor" added. In addition to the cash contributions, it was noted that the Institute has provided support over the past number of years in providing publicity and contacts for the Smithsonian's fund raising efforts.

Because of this, the Council instructed Jim Doherty to make the following requests of the Smithsonian: 1) The Institute be listed on the donor plaque as "The Institute of Navigation - Founding Donor"; and 2) the font size of the Institute's listing is no smaller than any other of the donors.

Motion: The ION donates \$50,000 to Smithsonian over the next two years, \$25,000 this year with an additional \$25,000 the following year. Motion made by John Lavrakas, seconded by Phil Ward and passed by Council.

Jim Doherty reported that the Smithsonian was also looking for volunteers to work with the Smithsonian to sort through artifacts donated to the exhibit by the Weems family.

Circulation Updated ION Copyright & Privacy Policy

It was reported that by e-mail vote on August 3, 2009, the Executive Committee had approved the following motions which updated to the ION's Copyright and Privacy Policy in response to a change in policy which would allow the Satellite Division to provide ION GNSS registration contact information to ION GNSS exhibitors:

Motions Passed by Executive Committee August 3, 2009 via E-mail Vote:

Motion 1:

The ION's Privacy Policy shall be amended to allow the following:

Contact listing of ION GNSS meeting registrants, including e-mail addresses, shall be provided to ION GNSS exhibitors and advertisers on a complimentary basis for the purpose of promoting their attendance, products and services being exhibited at the ION GNSS conference provided the list users agree to the following conditions:

1. List will only be used for the purpose of promoting exhibitors/advertisers products and/or services associated with their exhibit or advertising during ION GNSS.
2. List will not be shared with other organizations or affiliates.
3. A means will be provided on all communications whereby individual recipients of vendor solicitations can opt out of receiving future correspondence.
4. Lists will be provided in a standard electronic format and e-mailed directly to exhibit contact identified in exhibit contract or advertising agreement. A pre-registration list will be provided 21 days in advance. A final attendee list will be provided within 10 days of the close of the conference. The Institute may, at its sole discretion, include attendees from the prior year's conference as part of the pre-registration list (applicable 2010 and beyond).
5. Any registration lists requested other than those identified in section 4 above will be provided for a fee based on the Institute's regular list rental agreement policy.

Motion 2:

ION GNSS 2008 registrant contact information will NOT be provided to ION GNSS 2009 exhibitors or advertisers.

Motion 3:

The ION National Office will provide a means on the ION GNSS registration page where individual attendees can opt out of being included on lists being provided to ION GNSS exhibitors/advertisers. Additionally, the ION National Office will contact individuals by e-mail who have already registered for ION GNSS 2009 and give them seven days to opt out of being included in lists being distributed to exhibitors/advertisers.

See Attached Files: [Copyright and Privacy Policy 8-3-09.doc](#)

Motion: Council ratifies the three motions related to the Privacy Policy as outlined above. Motion made by John Lavrakas, seconded by John Betz and passed by the Council.

Report on 2009 Africa Project

See Attached Report: [Africa Workshop.pttx](#)

Motion: ION National Office to add \$10K to the Satellite Division's \$30K for the Africa Workshop. Motion made by Phil Ward, seconded by Larry Hothem and passed by Council.

Status of Loran C – ION Policy on Official Statements

It was stated that it was not appropriate for the ION as an organization to take a position or lobby any specific political positions. Council did discuss the status of Loran C, and resulting

implications, as a group of individuals. President Miller encouraged individuals to become involved in educating our nation's leaders according to the dictates of their own conscience.

Richard Greenspan suggested that ION form a panel to discuss the issues and present positive and negative portions of the issue.



MINUTES OF THE
IN-COMING COUNCIL
(January 24, 2010)

Appointment Standing and Ad Hoc Committee Chairs: M. Miller

Mikel Miller, in-coming president, congratulated all in-coming members of Council and presented the following committee chair names to Council for approval:

Standing Committee Chairs:

Nominating:	Chris Hegarty
Finance:	Maarten Uijt de Haag
Membership:	Dorota Brzezinska
Fellow Selection:	Karen Van Dyke
Technical Committees:	Todd Walter
Publications:	Boris Pervan
Meetings:	Frank van Graas
Awards Selection:	Todd Walter
Bylaws:	Chuck Bye
Outreach:	Jade Morton

Ad Hoc Committee Chairs:

Editor:	Boris Pervan
New Initiatives:	Chris Hegarty
Strategic Planning:	Todd Walter
ION Conference Committee:	Todd Walter
Publication Policy:	Ron Braff
Historian:	Marvin May
Government Fellows:	Clark Cohen
Education:	Andrey Soloviev

Motion: Council approve all committee chairs as listed above. Motion made by Jim Doherty, seconded by Pat Doherty and passed by the Council.

The meeting adjourned at 5:10 p.m.

Additional Documents Included with these Minutes:

Council Position Descriptions March 2009.doc
2010 Calendar ION Programs.doc
Alberta Section Report June 2009.doc
So CA Section Report 2009.doc