

**MINUTES OF THE
SATELLITE DIVISION EXECUTIVE COMMITTEE MEETING
(September 20, 2013)**

Subject to the approval of the ION Satellite Division Executive Committee, the following minutes are submitted. The Satellite Division Executive Committee Meeting was called to order on 20 September 2013 at Merchants Restaurant, Nashville, TN at 6:30pm. Those present were:

VOTING COMMITTEE MEMBERS:

Jade Morton	Division Chair & GNSS General Chair
John Betz	Vice Chair
Anthea Coster	Secretary
Mark Petovello	Treasurer
John Raquet	Immediate Past Chair
Jose Avila Rodriquez	European Technical Advisor
Yuanxi Yang	Asian Technical Advisor
Patricia Doherty	ION President

NON-VOTING PARTICIPANTS:

Eric Chatre, Galileo Advisor
Xiancheng Ding, BeiDou Advisor
Doug Taggart, GNSS 2013 Program Chair & ION Meetings Chair
Demos Gebre, Representing the Snowplow Competition
Lisa Beaty, ION Executive Director

AGENDA

1. Approve Minutes from September 2012: J. Morton
2. Outreach Activity Status, Autonomous Snowplow Competition: S. Sheikh
3. Outreach Activity Status, Africa Program: P. Doherty
4. Proposed Change to Kepler Award Policy: J. Morton
5. Lessons Learned 2013 Tutorial Program & Recommendations for 2014: J. Raquet
6. Lessons Learned 2013 Technical Program & Recommendations for 2014: D. Taggart
7. Approval of GNSS+ 2014 Program Chair: J. Morton
8. Other/New Business

Approve Minutes from September 2012

MOTION: Approve September 2012 Satellite Division minutes as circulated.

Motion made by Pat Doherty, seconded by Mark Petovello and approved.

It was noted that the following motion was approved by e-mail vote in July 2013:

MOTION: The Satellite Division approves Portland as the meeting location for ION GNSS+ 2016 and 2017 and authorizes the ION National Office to execute all required contracts. Motion circulated by e-mail and passed by e-mail vote of the Satellite Division Executive Committee.

Outreach Activity Status, Autonomous Snowplow Competition

Demoz Gebre reported on the status of the 2013 Autonomous Snowplow Competition and the status of the 2014 event.

It was reported that the Satellite Division had already approved up to \$15,000 for the 2014 competition in September 2012.

Outreach Activity Status, Africa Program

See Attached File: [Africa Program Update 2014](#)

It was reported that sustainable benefits of the GNSS courses were being derived from the Satellite Division program. It was reported that there were over 300 applicants for 60 student slots in 2013 and that the program was trying to accept students from other developing nations and not just from Africa. However, in 2014 it was planned to hold the courses in Rwanda to allow for more African participation.

MOTION: The Satellite Division approves up to \$25,000 per year, in both 2014 and 2015, for reimbursed ION member instructor travel expenses for the Africa Program. Motion made by Jade Morton, seconded by John Betz and passed. (Note: As a past instructor for this program, Coster abstained.)

Proposed Change to Kepler Award Policy

MOTION: The Satellite Division approves the proposed change to the Kepler Awards Guidelines that adds “the nominee’s contributions to the intellectual content of the ION’s meetings and/or the ION’s journal NAVIGATION” as part of the evaluation criteria. Motion made by Pat Doherty, seconded by Mark Petovello and passed. See Attached File: [Sat Div Awards Policy Proposed Change September 2013](#)

ACTION: Lisa Beaty to forward the change as approved by the Satellite Division Executive Committee to the ION Awards Chair for review and recommendation to Council for approval at the January 2014 Council meeting.

Lessons Learned 2013 Tutorial Program & Recommendations for 2014

It was noted that ION GNSS+ tutorial registrations continue to contract. This past year ION GNSS+ 2013 tutorial registrations decreased at a significantly larger rate than did conference registrations. While some of this may be due to the economy, it is also apparent that course materials and training are much more prevalent, and easily accessed, through various mediums in today’s marketplace. Raquet asserted that he did not believe that the contraction was due to a lack of quality.

It was reported that because of the contraction, we will be looking to consolidate and to eliminate overlap in course curriculum for next year’s tutorial offerings. The initial objective

will be to provide general introductory courses Monday afternoon and evening, with more specialized courses being offered on Tuesday morning and afternoon. It was noted that it has yet to be determined what these courses will be, or who would be invited to teach various sections.

Lessons Learned 2013 Technical Program & Recommendations for 2014

Doug Taggart, GNSS 2013+ Program Chair, reported that the plenary session needed to be organized early and suggested this session should be both interesting and entertaining. He also recommended that the 2014 committee continue to host the panel sessions, but perhaps look at using smaller rooms after the initial Wednesday morning status of the systems panel.

It was noted that further recommendations would be made after the evaluations were reviewed.

A vote of gratitude was extended to Jade Morton, General Chair, and Doug Taggart, Program Chair for ION GNSS+ 2013.

Approval of GNSS+ 2014 Program Chair

MOTION: Dr. Terry Moore is appointed and approved as the ION GNSS+ 2014 Program Chair. Motion made by Jade Morton, seconded by Pat Doherty and passed by the committee.

NEW BUSINESS

Proposed 2014 Autonomous Indoor Quadrotor Competition

John Raquet, member of Dayton Section, presented a proposal from the Dayton Section for the ION Satellite Division to co-host a new Autonomous Indoor Quadrotor Competition. It was reported that the primary sponsor of the competition would be the Dayton Development Coalition (DDC) and that the competition would be held in conjunction with the Ohio UAS Conference. The premise of this collegiate-level competition is autonomous navigation and target geo-location in a GPS-denied environment using a small UAS.

The ION's Dayton Section was asking the Satellite Division to fund \$12,000 per year in student travel grants to schools outside of the Dayton area (radius to be established), \$600 per year for a storage shed for competition materials, and a one-time start up expense of \$5,000 for field safety netting and/or competition props.

See Attached File: [2014 DDC Autonomous Quadrotor Competition – ION Funding Request](#)

John Betz noted that with the approvals of expenses for the African Outreach Program and the Autonomous Snowplow Competition, the Division had already spent its income for the year. There was considerable discussion over whether or not the Division wanted to spend into its reserve fund for the new competition. There was also discussion over whether or not it was desirable for the Division to fund fixed competition costs for an event being hosted at another organization's conference as it was noted that the Satellite

Division would be a co-sponsor of the event but have little control of the competition itself.

MOTION: The Satellite Division approves up to \$12,000 in student travel grants, at a rate of no more than \$2,000 per school, for schools located outside of the Dayton area for the 2014 Autonomous Quadrotor Competition. The motion was made by John Raquet, seconded by Anthea Coster and passed by the Satellite Division Executive Committee.

The meeting was closed at 9:00 p.m.