

**MINUTES OF THE  
SATELLITE DIVISION EXECUTIVE COMMITTEE MEETING  
(January 27, 2015)**

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 27 January 2015, at the Laguna Cliffs Marriott, Dana Point, CA at noon. Those present were:

**VOTING COMMITTEE MEMBERS:**

John Betz	Satellite Division Chair
Frank van Diggelen	Vice Chair
Doug Taggart	Secretary
Grace Gao	Treasurer
Jade Morton	Immediate Past Chair
Terry Moore	European Technical Advisor
Patricia Doherty	ION President

**NON-VOTING PARTICIPANTS:**

Gary McGraw, GNSS+ 2015 Program Chair  
Dorota Grejner-Brzezinska, Incoming President  
Lisa Beaty, ION Executive Director

**AGENDA**

1. Status of ION GNSS+ 2015 Plenary Session/Speakers
2. Programs/Investments in ION GNSS+ to Facilitate Growth
3. Division's Financial Investment Strategy

Status of ION GNSS+ 2015 Plenary Session/Speakers

The following have been suggested as plenary speakers:

- Hiawatha Bray, author of "You Are Here". It was reported Bray was a tech reporter for several publications and witty author but the group was unsure about his speaking ability. There was also concern that he would not share anything new to the specialized audience.
- Prof. Kate Jeffrey, University College London. Brzezinska and Moore reported they had both heard Prof. Jeffrey speak on human cognition and is a great speaker; she had given the keynote lecture at the RIN AGM this past year and was excellent. Her work has looked at different areas of the brain and how we store place, maps, landmarks and which parts of the brain are involved in distance measurement, heading and therefore navigation.
- Dr. Jim Green, Director of the Planetary Science Division at NASA Headquarters. Green

could address NASA's planetary exploration - the spacecraft Dawn was inserted into orbit around the asteroid Vesta in July 2011, the Juno spacecraft was launched in August 2011 on a mission to Jupiter to map the depths of Jupiter's interior to answer questions about how the gas giant was formed; the two GRAIL spacecraft were launched to the moon in September 2011, and the Mars Science Laboratory was launched in November 2011, on its voyage to Mars with Curiosity, the largest planetary rover ever designed, destined for the surface of Mars to continue the work begun by Spirit and Opportunity. And at the outer reaches of our solar system, New Horizons continues on its way to study Pluto and into the Kuiper Belt, birthplace of comets. It was agreed this was a timely topic and would be of interest. Beaty reported that Green was a recommendation but that she would want someone to hear him speak prior to extending an invite.

- Chris Hatfield, "The singing astronaut". Wrote an autobiography in 2013.
- ESA Navigation specialist from Rosetta program.
- NASA Navigation specialist from New Horizons mission to Pluto (closest point of approach, July 2015) – to be identified.
- Someone from Google?
- Stan Honey, navigator of racing yacht that won Jules Verne's trophy (fastest around the world). Also, head of technology for America's Cup (puts all the graphics on TV), can talk in detail about IMUs, RTK, and how they all come together for TV coverage of sailing and NASCAR. Also the guy who brought you the magic down-line for NFL TV coverage.

It was agreed McGraw would send U-Tube video links to the group for viewing, after which the group would rank order preferences and then invitations would be sent.

#### Programs/Investments in ION GNSS+ to Facilitate Growth

##### **Complimentary Pre-Conference Tutorials:**

The idea of making complimentary tutorials available as an added benefits for attracting potentials registrants to the conference was discussed. The idea of making introductory tutorials available with registration on Monday only with advanced paid tutorial offerings on Tuesday was also discussed.

Action: Beaty shall discuss the possibility of including a suite of introductory tutorials with ION GNSS+ 2016 registration on Monday and report back to the Satellite Division Executive Committee in September.

##### **Permitting Direct Sales on the Exhibit Floor:**

There was discussion as to the rationale for prohibiting direct sales on the exhibit floor and a request to allow vendors to sell books on the exhibit floor. Beaty stated that the policy needed to be sales or no sales as it would cause problems to allow some sales and exclude others based on the type of merchandise. Additional implications of allowing direct sales on the exhibit floor were discussed. No changes were made to the existing policy.

**2016 Technical Program:**

McGraw recommended the 2016 program chair come from an applications oriented community. Beaty suggested that depending on the outcome of the 2015 program, it may be time to consider having two program chairs – one for the applications oriented tracks and one for the academic tracks.

It was suggested ION continue to look for other groups that ION could absorb into the ION GNSS+ meeting such as ILA, deep space groups, Old Crows, etc.

**Division's Financial Investment Strategy**

Lisa Beaty circulated a summary of the Satellite Division's current financial status and policies. See Attached File: [Satellite Division Financial Policy Summary](#)

Due to time no additional discussion transpired.

**NEW BUSINESS****MOOCs for High School Students**

John Betz introduced the idea of the Satellite Division hosting Massive Open Online Courses (MOOC) on various satellite navigation topics was discussed. MOOCs would provide school teachers curriculum and materials they could download on demand. ION would partner with an established platform for hosting. It was noted that this would be a long term activity.

The meeting was closed at 2:00 p.m.