

MINUTES OF THE
SATELLITE DIVISION EXECUTIVE COMMITTEE MEETING
(October 1, 2021)

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 October 1, 2021 via Zoom at 11:00 a.m. EDT. Those present were:

VOTING MEMBERS:

Patricia Doherty	Chair
Sandy Kennedy	Vice Chair
Mohammed Khider	Secretary
Demoz Gebre-Egziabher	Treasurer
Chris Hegarty	Immediate Past Chair
Frank van Diggelen	ION President
Jiyun Lee	International Technical Advisor

NON-VOTING PARTICIPANTS:

André Hauschild	ION GNSS+ 2021 Program Co-chair (Research)
Di Qiu	ION GNSS 2021 Program Co-chair (Commercial)
Terry Moore	ION GNSS+ 2021 Publications Co-chair
Allison Kealy	ION GNSS+ 2021 Publications Co-chair
Jihye Park	ION GNSS+ 2021 Publications Co-chair
Mathieu Joerger	ION GNSS+ 2022 Program Co-chair (Research)
Zainab Syed	ION GNSS 2022 Program Co-chair (Commercial)
Lisa Beaty	ION Executive Director

AGENDA

1. Document Motions Approved by Email Since the Last Meeting
 - a. Approval of the September 2020 Minutes
 - b. ION GNSS+ 2021 Commission to Offset Expenses 2021 Social Functions, Amenities and other COVID-related expenses
 - c. Formal Approval of Kepler and Parkinson Chairs
2. Outreach Activity Status
 - a. Funding Autonomous Snowplow Competition, January 2022: L. Beaty
 - b. GNSS in Developing Nations/Africa Program: P. Doherty
3. Lessons Learned 2021 Tutorial Program & Recommendations for 2022: J. Raquet
4. Lessons Learned 2021 Technical Program & Recommendations for 2022
 - a. Research Tracks: A. Hauschild
 - b. Commercial and Policy Tracks: D. Qiu

- c. Peer Review Process: T. Moore, A. Kealy, J. Park
 - d. Plenary Session Review: S. Kennedy
- 5. Approval of ION GNSS+ 2022 Program Co-Chairs: P. Doherty
 - 6. Other/New Business

AGENDA

See Attached File: [SatDivCharts for 10-1-21 Overview](#)

Document Motions Approved by Email Since the Last Meeting

Approval of the September 2020 Minutes:

Motion: Minutes from the September 25, 2020 meeting of the Satellite Division Executive Committee were approved by email vote. The motion passed by email vote in October 2020.

ION GNSS+ 2021 Commission to Offset Expenses 2021 Social Functions, Amenities and other COVID-related expenses:

In April 2021, the Satellite Division approved a request by ION Executive Director to fund a special event at ION GNSS+ with the Satellite Division's 2021 meeting commission and offset other on-site COVID/virtual-related expenses associated with running a parallel in-person and virtual meeting.

Motion: The Satellite Division authorizes the National Office to reinvest the ION GNSS+ 2021 5% commission to offset additional costs of an upgraded onsite social event, program committee amenity, and other COVID-related expenses. The motion passed by email vote in April 2021.

Approval of Parkinson and Kepler Chairs:

Motion: The Satellite Division Executive Committee approves the following 2021 Awards Chairs: Dr. Todd Walter as Kepler Committee Chair and Dr. Jiyun Lee as the Parkinson Committee Chair. The motion passed by email vote in July 2021.

Subsequent to the above motion and per the awards policy and per the authority granted in the Satellite Division bylaws, Patricia Doherty, Satellite Division Chair, approved the following to serve on the Satellite Division Award Committees:

Kepler Award Committee: Todd Walter (Chair)

Chris Hegarty (government)
Frank van Diggelen (industry)
Dorota Grejner-Brzezinska (academia)

Parkinson Award Committee: Jiyun Lee (Chair)
Sunil Bisnath
Seebany Datta-Barua
Paul Groves
Mathieu Joerger
Allison Kealy
Tim Murphy

Outreach Activity Status

Snowplow:

Lisa Beaty reported that the Satellite Division had provided \$3,000 sponsorship funding for the 2021 Virtual Snowplow Competition that had been fully assumed by Dunwoody College of Technology in January 2020. The competition continued to be supported with manpower from the ION's North Star Section.

The competition organizers had requested the Division make a financial contribution to student prize money for the 2022 event, which is currently anticipated as an in-person event at Dunwoody College.

Motion: The Satellite Division approves a donation of \$3,000 to the 2022 Autonomous Snowplow Competition, hosted and sponsored by Dunwoody Technical College. Motion made by Frank van Diggelen, seconded by Mohammed Khider and passed by the Committee.

GNSS in Developing Nations/Africa Program:

Proposed \$25K in funding from 2020, to be rolled forward to 2021, be rolled forward to 2022.

Patricia Doherty reported that the 2020 Africa Outreach program, originally scheduled for October 2020 in Morocco, had been postponed until 2021 due to COVID-19, and had now been scheduled for spring 2022. Doherty requested the \$25K that had been approved for funding for 2021 be rolled forward to 2022.

Additionally, Beaty reported that the GNSS in Developing Nations/Africa Outreach Program had been asked to host a program in Kenya in 2022. Kenya organizers had already obtained local governmental support. It had not yet been determined if the program would be hosted in Kenya or at the International Center for Theoretical Physics (ICTP) in Trieste, Italy.

It was requested that the Division sponsor both programs in a single year since it had not had an Africa program in the past two years; effectively a western program in Morocco in the spring 2022 and an eastern program in the fall 2022 in either Kenya or Trieste.

Motion: The Satellite Division rolls forward the \$25K in funding for the Africa/Morocco program (already approved 2020 and reaffirmed in 2021) to 2022. Motion made by Chris Hegarty, seconded by Frank van Diggelen and passed by the Committee.

Motion: The Satellite Division approves \$25K in funding for a 2022 Africa/Kenya program. Motion made by Frank van Diggelen, seconded by Demoz Gebre-Egziabher and passed by the Committee.

Lessons Learned 2021 Tutorial Program & Recommendations for 2022: J. Raquet

John Raquet, Tutorials Chair, reported tutorials were well received. It was suggested for next year that the tutorials be taught live in-person, and recorded for re-broadcast viewing, but that ION not live stream tutorials next year due to staff demands.

Raquet also reported that it was likely ION would recommend deferring the masters courses, typically held on Monday, to a future year as these required a critical mass to be successful and 2022 was still projected to be a recovery year.

Lessons Learned 2021 Technical Program & Recommendations for 2022

Notes from each itemized as follows:

Research Tracks: André Hauschild, ION GNSS+ 2021 Program Chair

- Recommended only presentations delivered in-person be considered eligible for Best Presentation Awards. There was considerable discussion on this point, including the criteria and timeline for these awards. The overall consensus at the end was that Beaty would refine the instructions given to the session chairs prior to next year's meeting, but that the award needed to remain competitive and the integrity of the award needed to be preserved.

Action: The National Office provides clear instructions to authors and session chairs as to the eligibility and selection criteria for Best Presentation Awards for 2022 to ensure all authors are evaluated fairly (both in-person and virtual presenters).

- There was discussion over the lack of use of the chat/networking rooms on the virtual portal. Frank van Diggelen instructed ION to find a way to instruct attendees on the

availability and use of these virtual portal features. Beaty welcomed suggestions from the group and asked them to send samples/suggestions to her.

Commercial and Policy Tracks: D. Qiu, ION GNSS+ Program Chair

- There was discussion over how to maintain the quality of the technical program in a hybrid (in-person and virtual meeting) environment.
- It was noted that it was difficult for panel members to see what was being projected on the screen behind them and thus they were always turning their heads, which put the back of their heads to the virtual audience.

Action: ION to provide a confidence monitor so panelists can see what is being projected on the screen behind them.

Peer Review Process: Terry Moore, Allison Kealy, Jihye Park

- Prof. Moore reported that the process was working.
- The committee volunteered to serve again.
- The committee was tasked with an action to see what the normal acceptance rate is for similar peer reviewed conferences.

Plenary Session: S. Kennedy

- Sandy Kennedy reported that she would like to have the plenary session be an inspirational start/kickoff to the conference.
- It was difficult to find plenary speakers to commit to this on a complimentary basis.
- It was generally agreed that plenary speakers should be in person.
- There was discussion on the format of the plenary session including:
 - Paid professional speaker, whom all agreed needed to be technical/PNT oriented and not a general motivational type speaker.
 - It was suggested the current year's Parkinson winner present in combination with one keynote.
 - It was suggested the prior year's Kepler winner present with one keynote.
- Frank van Diggelen pointed out that the keynote can provide excellent promotion for current and future events, as ION makes this available for free through ION's YouTube channel, and this promotes ION as well as ION GNSS+.

Motion: The Satellite Division authorizes the use of Satellite Division funds to compensate a paid keynote plenary speaker, either honorarium and/or travel expenses, at a reasonable level (\approx \$5,000). Motion made by Patricia Doherty, seconded by Frank van Diggelen and passed by the Satellite Division Executive Committee.

Approval of ION GNSS+ 2022 Program Co-Chairs: P. Doherty

Motion: The Satellite Division approves the following ION GNSS+ 2022 Program Co-chairs: Dr. Zainab Syed to oversee the Commercial and Policy tracks, Dr. Mathieu Joerger to oversee the Research Tracks and Dr. John Raquet shall oversee the tutorial program. Sandy Kennedy, Satellite Division Vice Chair, shall have primary responsibility for the plenary session and Dr. Chris Hegarty, Immediate Past Satellite Division Chair, shall lead the selection of the sponsored student program. Dr. Terry Moore, Dr. Allison Kealy and Dr. Jihye Park shall serve on the Peer Review Committee and supervise/referee the peer review process. The committee was approved by the Satellite Division Executive Committee.

Other/New Business

None.

The meeting adjourned at 1:30 p.m.