

# IEEE Photonics Standards Committee

## Agenda

Monday, May 10<sup>th</sup>, 2021

11:00 AM – 12:00 PM (EDT)

WebEx Meeting

John Kulick, Standards Committee Chair

### 1. Call to Order

- Introduction of Members and Declarations of Affiliations
- Roll Call, Membership Update and Establish Quorum
  - i. 9/18 Quorum Achieved
  - ii. If you are interested in becoming a voting member, please send a request to John Kulick ([j.kulick@ieee.org](mailto:j.kulick@ieee.org)). The request should indicate the applicant's direct and material interest in the Committee's work and willingness to participate actively.
  - iii. Meeting Attendance

<b>Voting Members</b>		
John	Kulick	Self
Sean	Anderson	MACOM
Steve	Bush	GE
Peter	Catrysse	Standford Univ.
Wei	Jiang	Nanjing University
David	Krohn	Lightwave Venture
Lu	Feixing	Wuhan Huagong Laser Engineering Co., Ltd.
John	Mazurowski	Penn State
Yu	Yuan	Self
<b>Observers</b>		
Mike	Shahine	GDMS
Oliver	Chen	Crealights Technology Co. Ltd.
Zhu	Chao	Raycus Laser / Wuhan Raycus Fiber Laser Technologies Co., Ltd.
Aili	PU	Raycus Laser / Wuhan Raycus Fiber Laser Technologies Co., Ltd.
Simon	Yu	Raycus Laser / Wuhan Raycus Fiber Laser Technologies Co., Ltd.
<b>Staff</b>		
Ashley	Moran	IEEE SA Staff
Rudi	Schubert	IEEE SA Staff
Kerriane	Sullivan	IEEE Photonics Staff

2. Approval of Agenda
  - a. There were no additions to the agenda and the agenda was approved by unanimous consent.
3. Approval of Minutes
  - a. The February 8<sup>th</sup>, 2021 meeting minutes were reviewed and approved by unanimous consent.
4. Call for Officers
  - a. There was a call made for a Secretary of the Standards Committee. If anyone is interested or wants more information on the responsibilities of the secretary, please reach out to Ashley Moran or John Kulick.
5. Current Working Group Activity
  - a. The Working Group for P2066 met in April and the working group has approved the draft. The draft was submitted for the Mandatory Editorial Coordination review. This document will be sent to the committee soon for review and approval.
  - b. The 2065 standard was approved by the Standards Association Standards Board (SASB) in December 2020 and has been published.
  - c. The 2067 standard was approved by the Standards Association Standards Board (SASB) in February 2021 and has been published.
6. Study Group Activity
  - a. The study group has been meeting consistently since early March and has split into two groups: Fiber Attach and PDKs
  - b. The goal of the groups is to provide either a report or a recommendation to the Photonics Standards Committee in June 2021.
  - c. The Fiber Attach Study Group is working to recommend a whitepaper focused on key fiber attach technology considerations.
  - d. The PDK study group is developing a recommendation for a new PAR to standardize various PDK-related topics.
  - e. Both study groups will continue to meet and discuss these items over the next several weeks.
7. New PARs
  - a. Two new PARs were introduced to the committee and an email ballot was sent out for review and approval of the PARs.
  - b. **2999: Technical Requirements and Test Methods for Industrial Ultrashort Pulse Lasers (Entity)**
    - i. Submitted to NesCom and will be on the June NesCom agenda

- ii. This is intended to be an Entity Working Group
  - c. **Fiber Optic Sensors – Fiber Optic Distributed Acoustic Sensing (DAS) Standard – Terminology and Definitions**
    - i. Submitted to NesCom and will be on the June NesCom agenda
- 8. Quantum Photonics Discussion
  - a. A presentation was given by Erik DeBenedictis from the IEEE Quantum Initiative. The IEEE Future Directions activity focused on quantum has interdisciplinary opportunities.
    - i. Potential Photonics Opportunities include:
      1. Quantum networking: Can't use amplifiers. Need quantum repeaters.
      2. Quantum computers: Will use a short quantum interconnect with transducers to matter-based qubits. Also, photonic qubits for computation.
      3. Lasers and fibers. Connectors & dense packaging.
      4. Gates for photonic qubits.
      5. PDKs for quantum fabs.
    - b. There was discussion regarding whether some of these topics would benefit from being in an ICCom activity and that the group should do introduction to get other interested parties involved in this activity.
- 9. New Business
  - a. No New Business
- 10. Action Items
  - a. The committee needs a volunteer to serve as secretary for the Photonics Standards Committee
  - b. The voting members should review and vote on the PAR drafts by May 17<sup>th</sup>. The email ballot was sent on May 11<sup>th</sup>.
  - c. To further the quantum discussion there should be introductions to interested parties.
- 11. Future Meetings
  - a. August 17<sup>th</sup>, 2021 11:00am (EST)
  - b. November 8<sup>th</sup>, 2021 11:00am (EST)
- 12. Adjourn