IEEE 802.3 Working Group Teleconference Interim meeting 24th September 2020

> David Law Chair, IEEE 802.3 Working Group <u>dlaw@hpe.com</u>

Agenda, voter list: http://www.ieee802.org/3/minutes/sep20/index.html

IEEE 802.3 Officers, Subgroup Chairs and Vice-Chairs

IEEE 802.3 Chair: David Law <dlaw@hpe.com>

IEEE 802.3 Vice Chair: Adam Healey <adam.healey@broadcom.com>

IEEE 802.3 Secretary: Jon Lewis <jon.lewis@dell.com>

IEEE 802.3 Executive Secretary: Steve Carlson <scarlson@ieee.org>

IEEE 802.3 Treasurer: Valerie Maguire <valerie_maguire@siemon.com>

IEEE 802.3 Task Force chairs

IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces: Elizabeth Kochuparambil <edonnay@cisco.com>

IEEE P802.3cp Bidirectional 10 Gb/s, 25 Gb/s and 50 Gb/s Optical Access PHYs: Frank Effenberger <frank.effenberger@huawei.com>

IEEE P802.3cr Isolation (Maintenance #14) Task Force: Jon Lewis <jon.lewis@dell.com>

IEEE P802.3cs Increased-reach Ethernet optical subscriber access: (Super-PON): Claudio DeSanti <cds@ieee.org>

IEEE P802.3ct 100 Gb/s and 400 Gb/s over DWDM systems: John D'Ambrosia <jdambrosia@ieee.org>

IEEE P802.3cu 100 Gb/s and 400 Gb/s over SMF at 100 Gb/s per Wavelength: Mark Nowell <mnowell@cisco.com>

IEEE P802.3cv Power over Ethernet (Maintenance #15): Chad Jones <cmjones@cisco.com>

IEEE P802.3cx Improving PTP Timestamping Accuracy on Ethernet Interfaces: Steve Gorshe <steve.gorshe@microchip.com>

IEEE P802.3cy Greater than 10 Gb/s Electrical Automotive Ethernet Task Force: Steve Carlson <scarlson@ieee.org>

IEEE P802.3cz Multi-Gigabit Optical Automotive Ethernet Task Force: Bob Grow <bob.grow@ieee.org>

IEEE P802.3da 10 Mb/s Single Pair Multidrop Segments Enhancement Task Force: Chad Jones <cmjones@cisco.com>

IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force: Robert Lingle <rlingle@ofsoptics.com>

IEEE 802.3 Task Force vice-chairs

IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces: Kent Lusted <kent.c.lusted@intel.com>

Working Group Decorum



- Please MUTE if you are not speaking
- An officer is permitted to make an audio or slideshow recording of this meeting exclusively for the purpose of generating minutes which shall not be copied or distributed. IEEE 802.3 meetings do not use this option. Recording of the proceedings by any other participant or observer, in part or in whole, via any means, is prohibited. (January 2020 IEEE-SA Standards Board Ops Manual 5.3.3.2)
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (January 2020 IEEE-SA Standards Board Ops Manual 5.3.3.3)
- Please observe proper decorum in meetings

Remembering David Chalupsky



Remembering David Chalupsky

We will now hold one minute's silence

Agenda

- Approve agenda
 - http://www.ieee802.org/3/minutes/sep20/
 - Any modifications, additions or deletions?

Instructions for the WG Chair

The IEEE-SA strongly recommends that at each WG meeting the chair or a designee:

- Show slides #1 through #4 of this presentation
- Advise the WG attendees that:
 - IEEE's patent policy is described in Clause 6 of the IEEE-SA Standards Board Bylaws;
 - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
 - There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.

Instruct the WG Secretary to record in the minutes of the relevant WG meeting:

- That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
- That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard
- Any responses that were given, specifically the patent claim(s)/patent application claim(s) and/or the holder of the patent claim(s)/patent application claim(s) that were identified (if any) and by whom.
- The WG Chair shall ensure that a request is made to any identified holders of potential essential patent claim(s) to complete and submit a Letter of Assurance.
- It is recommended that the WG Chair review the guidance in IEEE-SA Standards Board Operations Manual 6.3.5 and in FAQs 14 and 15 on inclusion of potential Essential Patent Claims by incorporation or by reference.

Note: **WG** includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE-SA Standards Board.



(Optional to be shown)

Participants have a duty to inform the IEEE

- Participants <u>shall</u> inform the IEEE (or cause the IEEE to be informed) of the identity of each holder of any potential Essential Patent Claims of which they are personally aware if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
- Participants <u>should</u> inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims

Early identification of holders of potential Essential Patent Claims is encouraged



Ways to inform IEEE

- Cause an LOA to be submitted to the IEEE-SA (<u>patcom@ieee.org</u>); or
- Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
- Speak up now and respond to this Call for Potentially Essential Patents

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair



Other guidelines for IEEE WG meetings

- All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
 - Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
 - Don't discuss specific license rates, terms, or conditions.
 - Relative costs of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.
 - Technical considerations remain the primary focus
 - Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
 - Don't discuss the status or substance of ongoing or threatened litigation.
 - Don't be silent if inappropriate topics are discussed ... do formally object.

For more details, see IEEE-SA Standards Board Operations Manual, clause 5.3.10 and Antitrust and Competition Policy: What You Need to Know at http://standards.ieee.org/develop/policies/antitrust.pdf



Slide #3

Patent-related information

The patent policy and the procedures used to execute that policy are documented in the:

- IEEE-SA Standards Board Bylaws
 (http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6)
- IEEE-SA Standards Board Operations Manual (http://standards.ieee.org/develop/policies/opman/sect6.html#6.3)

Material about the patent policy is available at http://standards.ieee.org/about/sasb/patcom/materials.html

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at <u>patcom@ieee.org</u>



INSTRUCTIONS FOR CHAIRS OF STANDARDS DEVELOPMENT ACTIVITIES

At the beginning of each standards development meeting the chair or a designee is to:

- Show the following slides (or provide them beforehand)
- Advise the standards development group participants that:
- IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy;
- Instruct the Secretary to record in the minutes of the relevant meeting:
- That the foregoing information was provided and that the copyright slides were shown (or provided beforehand).





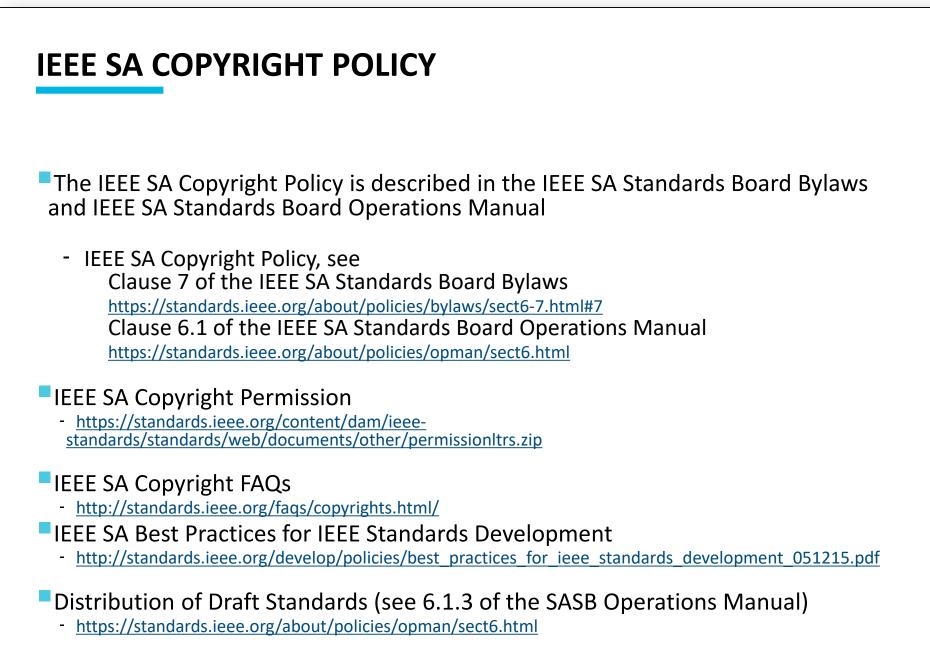
IEEE SA COPYRIGHT POLICY

By participating in this activity, you agree to comply with the IEEE Code of Ethics, all applicable laws, and all IEEE policies and procedures including, but not limited to, the IEEE SA Copyright Policy.

- Previously Published material (copyright assertion indicated) shall not be presented/submitted to the Working Group nor incorporated into a Working Group draft unless permission is granted.
- Prior to presentation or submission, you shall notify the Working Group Chair of previously Published material and should assist the Chair in obtaining copyright permission acceptable to IEEE SA.
- For material that is not previously Published, IEEE is automatically granted a license to use any material that is presented or submitted.











Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct

- All participants in IEEE-SA activities are expected to adhere to the core principles underlying the:
 - IEEE Code of Ethics
 - IEEE Code of Conduct
- The core principles of the IEEE Codes of Ethics & Conduct are to:
 - Uphold the highest standards of integrity, responsible behavior, and ethical and professional conduct
 - Treat people fairly and with respect, to not engage in harassment, discrimination, or retaliation, and to protect people's privacy.
 - Avoid injuring others, their property, reputation, or employment by false or malicious action
- The most recent versions of these Codes are available at http://www.ieee.org/about/corporate/governance

Participants in the IEEE-SA "*individual process*" shall act independently of others, including employers

- The <u>IEEE-SA Standards Board Bylaws</u> require that "participants in the IEEE standards development individual process shall act based on their qualifications and experience"
- This means participants:
 - Shall act & vote based on their personal & independent opinions derived from their expertise, knowledge, and qualifications
 - Shall not act or vote based on any obligation to or any direction from any other person or organization, including an employer or client, regardless of any external commitments, agreements, contracts, or orders
 - Shall not direct the actions or votes of other participants or retaliate against other participants for fulfilling their responsibility to act & vote based on their personal & independently developed opinions
- By participating in standards activities using the "*individual process*", you are deemed to accept these requirements; if you are unable to satisfy these requirements then you shall immediately cease any participation

Approved by SASB in June 2019

IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints

- The <u>IEEE-SA Standards Board Bylaws</u> (clause 5.2.1.3) specifies that "*the* standards development process shall not be dominated by any single interest category, individual, or organization"
 - This means no participant may exercise "authority, leadership, or influence by reason of superior leverage, strength, or representation to the exclusion of fair and equitable consideration of other viewpoints" or "to hinder the progress of the standards development activity"
- This rule applies equally to those participating in a standards development project and to that project's leadership group
- Any person who reasonably suspects that dominance is occurring in a standards development project is encouraged to bring the issue to the attention of the Standards Committee or the project's IEEE-SA Program Manager

Important Bylaws and Rules

- IEEE-SA Operations Manual
 - <u>https://standards.ieee.org/about/policies/sa-opman/</u>
- IEEE-SA Standards Board Bylaws
 - https://standards.ieee.org/about/policies/bylaws/
- IEEE-SA Standards Board Operations Manual
 - <u>https://standards.ieee.org/about/policies/opman/</u>
- IEEE 802 LAN/MAN Standards Committee (LMSC) Policies and Procedures
 - <u>https://ieee.app.box.com/v/PandP-LMSC</u>
- IEEE 802 LAN/MAN Standards Committee (LMSC) Operations Manual
 - <u>http://www.ieee802.org/devdocs.shtml</u>
- IEEE 802 LAN/MAN Standards Committee (LMSC) Working Group (WG) Policies and Procedures
 - <u>http://www.ieee802.org/devdocs.shtml</u>
- IEEE 802.3 Working Group Operating Rules
 - http://ieee802.org/3/rules/P802_3_rules.pdf

Membership and attendance recording Membership requirements

- Membership requirements (gaining and retaining)
 - 75% attendance at 2 of last 4 plenary sessions
 - A qualifying interim may be substituted for one plenary
 - Request to become member during potential voter agenda item at IEEE 802.3 opening or closing plenary
 - Participate in <u>two</u> out of the last <u>three</u> IEEE 802.3
 Working Group ballots to retaining membership
 - Maintain valid contact information
 - Consistent declaration of affiliation

Membership and attendance recording

• IEEE 802.3 voters

http://ieee802.org/3/minutes/sep20/0920_voters.pdf

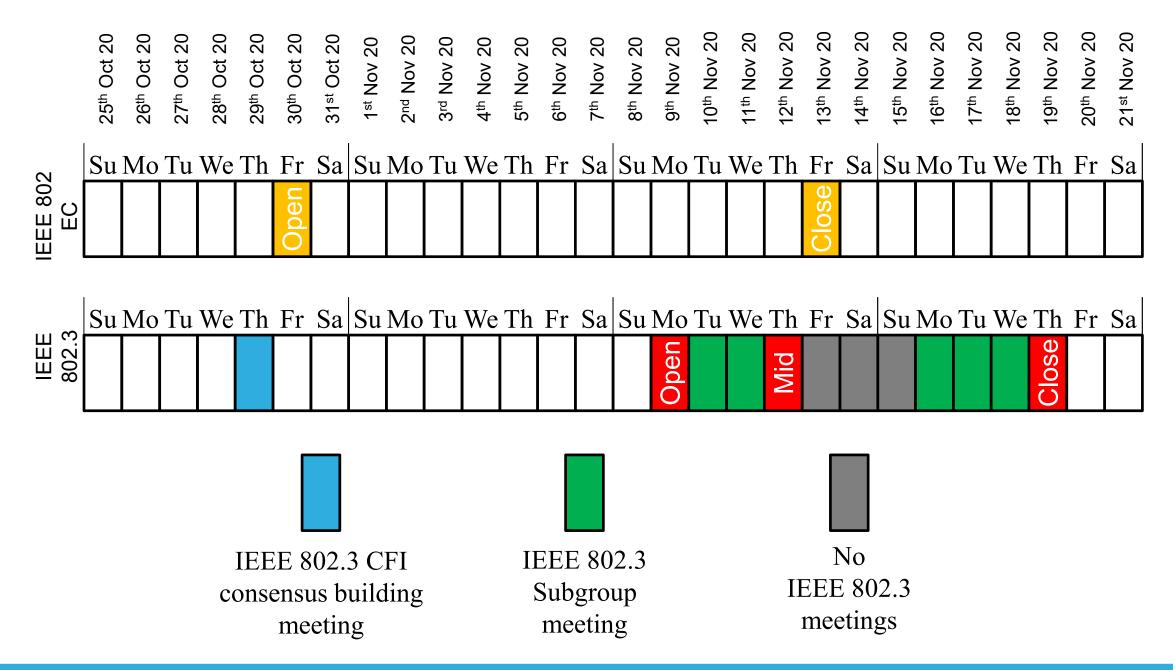
• Attendance recording

MON TUE 14-Sep-2015 15-Sep-2015 1	WED THU 6-Sep-2015 17-Sep-2015			FRI 18-Sep-2015							М	Manage Attendee			
Schedule	7:00 8:0	0 9:00 10	:00 11:00	12:00 13	:00 14:0	0 15:0	0 16:0	00 17:0	00 18:0	00 19:	00 20;	00 21:0	00 22:	00 23:	:00
P802.3bn, bp, br, bt, by, 2.5/5G															
WG meeting										(
Please record your attendance for yellow bar. Once your attendanc	e has bee	n recorde	ed, the y	ellow ba						e					
Submittal: As the person submit 1. I am submitting this attenda 2. At the time of the submittal	nce recol	d for my	self and	not som		else.	DO N	IOT S	UBMI	T FOI	R OTH	IERS!			

• IEEE 802.3 balloting records

http://ieee802.org/3/ballots/ballot_returns.pdf

IEEE 802.3 November 2020 plenary meeting



November 2020 IEEE 802 plenary Tutorial

Time and date:

10h00 to 11h20 AM EST Tuesday 13th October 2020

Title:

802.11 WLAN and 3GPP 5G System Interworking

Presenter:

Binita Gupta, Intel

Abstract:

This presentation will cover the integration and interworking of 802.11 Wi-Fi access networks with the 3GPP 5G system. It will provide an overview of the 5G and WLAN interworking architecture, related functions, procedures and interfaces as defined by 3GPP Releases 15 and 16. It will also highlight some key technical issues and gaps related to enabling Wi-Fi interworking with the 5G system, which may need to be addressed within the Wi-Fi related standards.

WEBEX

https://ieeesa.webex.com/ieeesa/j.php?MTID=m196ea1f2edfc5b29604df576d442934c

Meeting number: 173 869 2585 Meeting password: 802tutorial



IEEE 802 Public Visibility Standing Committee

Scope

- To raise industry awareness in timely fashion of IEEE 802 WG / TAG activities
- Develop social media content based on IEEE 802 WG / TAG activities
 - Twitter <u>https://twitter.com/ieee802</u>
 - LinkedIn –

https://www.linkedin.com/company/ieee802

➢ IEEE-SA 802 -

https://standards.ieee.org/featured/802/index.html

Contact John D'Ambrosia (Chair, PVSC) if interested in helping develop content or support the PVSC

- Content examples
 - Meeting announcements
 - PARs to be considered
 - > Tutorials
 - > [802.3] Call-for-Interests
 - New Task Force formations
 - Study Group formations
- > Other 802 related material
 - Press Releases
 - > White Paper publications
 - Standards Approval
 - Standards Publication
 - IEEE Educational Activities Tech Talks
 - Other 802 approved news

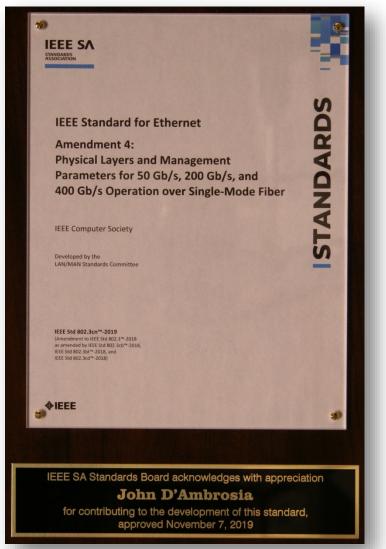
Liaison letters

- External Liaison letters (new)
 - ITU-T SG15: New Access Network Transport (ANT) Standards Overview and Work Plan liaison letter
 - ITU-T SG15: New Home Network Transport (HNT) Standards Overview and Work Plan liaison letter
 - ITU-T SG15: Latest version of the Access Network Transport (ANT) Standards Work Plan and Home Network Transport (HNT) Standards Work Plan liaison letter
 - ITU-T SG15: OTNT Standardization Work Plan Issue 28 liaison letter
 - ITU-T SG15: ITU-T use of a distinct Ethernet O code in G.8312 liaison letter
 - ITU-T SG15: Coordination of Ethernet information and data modelling work liaison letter
 - ITU-T SG15: Revision of G.8012 and G.8021 liaison letter
 - OIF: Progress on CEI-112G-VSR, CEI-112G-MR and CEI-112G-LR liaison letter and attachment
 - IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces Task Force
 - TIA TR42.7: Single-Pair Multidrop liaison letter
 - IEEE P802.3da 10 Mb/s Single Pair Multidrop Segments Enhancement Task Force

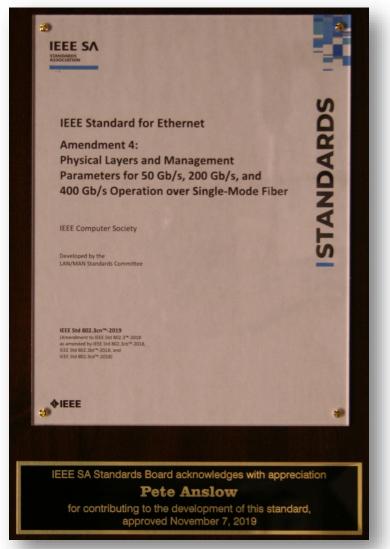
Assigned group or individual to review letter and make a recommendation at the IEEE 802.3 interim if there should be a reply, and if so, propose a draft reply

IEEE Std 802.3cn-2019 awards

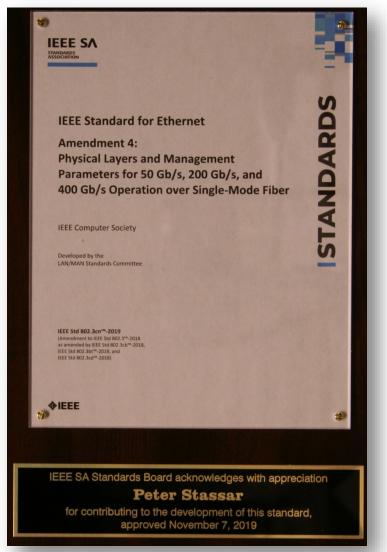
IEEE Std 802.3cn-2019 awards John D'Ambrosia



IEEE Std 802.3cn-2019 awards Pete Anslow



IEEE Std 802.3cn-2019 awards Peter Stassar



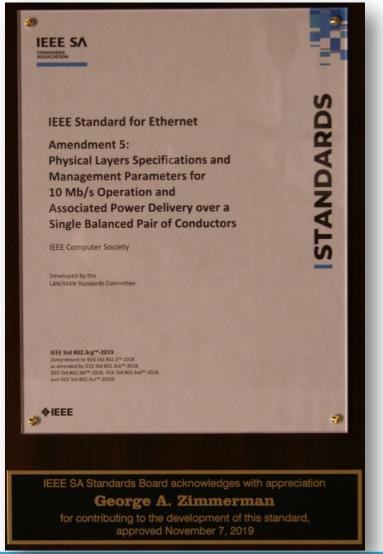
IEEE Std 802.3cn-2019 awards Xu Yu



Version 1.1

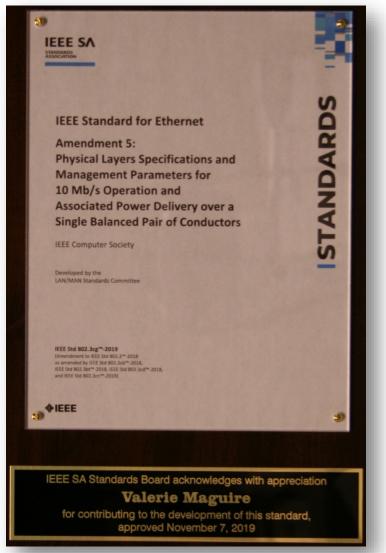
IEEE Std 802.3cg-2019 awards

IEEE Std 802.3cg-2019 awards George Zimmerman



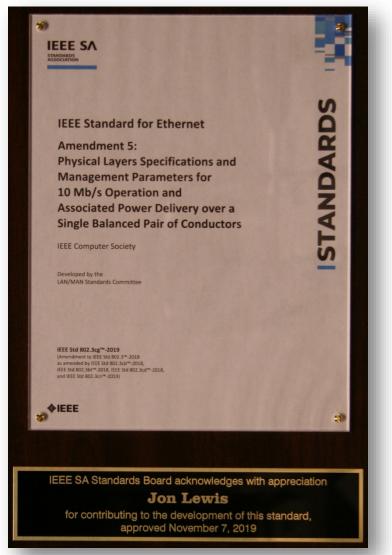
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IEEE Std 802.3cg-2019 awards Valerie Maguire



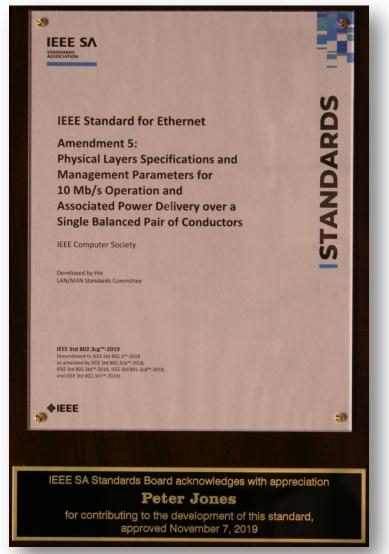
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IEEE Std 802.3cg-2019 awards Jon Lewis



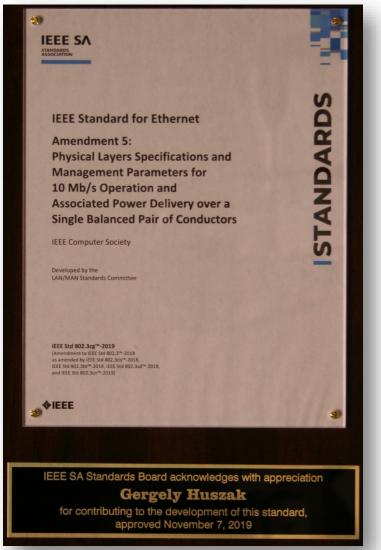
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IEEE Std 802.3cg-2019 awards Peter Jones



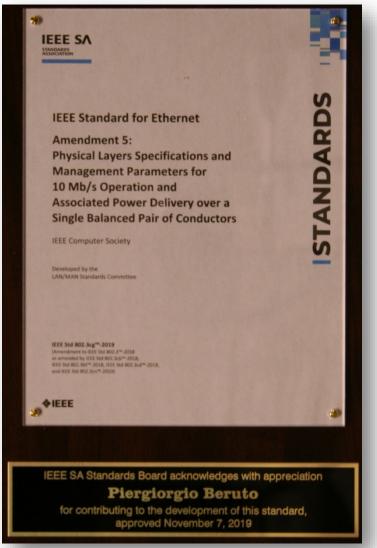
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IEEE Std 802.3cg-2019 awards Gergely Huszak



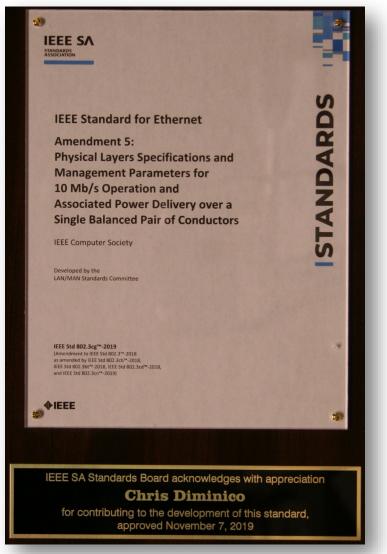
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IEEE Std 802.3cg-2019 awards Piergiorgio Beruto



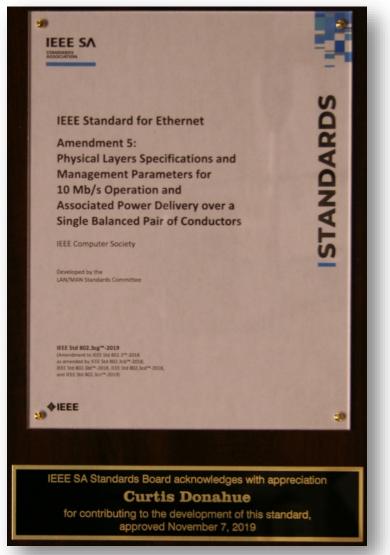
Version 1.1

IEEE Std 802.3cg-2019 awards Chris Diminico



Version 1.1

IEEE Std 802.3cg-2019 awards Curtis Donahue



Version 1.1

IEEE Std 802.3cg-2019 awards Steffen Graber



Version 1.1

IEEE Std 802.3cg-2019 awards Geoff Thompson



IEEE Std 802.3cg-2019 awards David Brandt



IEEE Std 802.3cg-2019 awards Heath Stewart



IEEE Std 802.3cg-2019 awards Tim Baggett



Version 1.1

IEEE Std 802.3cg-2019 awards Kirsten Matheus



IEEE Std 802.3cg-2019 awards Mick McCarthy



Continuing Agenda ...