

**Approved Minutes**  
**IEEE 802.3 Ethernet Working Group plenary**  
**Beijing, China**  
**March 17 to 20, 2014**

<http://www.ieee802.org/3/minutes/mar14/index.html>

**MONDAY, MARCH 17, 2014**

**ADMINISTRATIVE MATTERS**

**Call to order**

Mr. David Law, Chair of the IEEE 802.3 Ethernet Working Group, called the meeting to order at 1:02 pm.

Welcome, introductions, and general announcements

Mr. Law introduced the officers of the IEEE 802.3 Working Group.

IEEE 802.3 Chair: David Law

IEEE 802.3 Vice-Chair: Adam Healey

IEEE 802.3 Secretary: Pete Anslow

IEEE 802.3 Treasurer: Valerie Maguire

IEEE 802.3 Task Force chairs

- IEEE P802.3bj 100 Gb/s Backplane and Copper Cable: Adam Healey
- IEEE P802.3bm 40Gb/s and 100 Gb/s Fiber Optic: Dan Dove
- IEEE P802.3bn EPON Protocol over Coax (EPoC): Mark Laubach
- IEEE P802.3bq 40GBASE-T: David Chalupsky
- IEEE P802.3br Interspersing Express Traffic: Ludwig Winkel
- IEEE P802.3bt DTE Power via MDI over 4-Pair: Chad Jones
- IEEE P802.3bu 1-Pair Power over Data Lines (PoDL): Dave Dwelley

IEEE 802.3 Study Group chairs

- IEEE 802.3 400 Gb/s Ethernet: John D'Ambrosia

Due to the absence of Mr. Carlson (IEEE 802.3 Executive Secretary and IEEE P802.3bp Reduced Twisted Pair Gigabit Ethernet PHY Task Force Chair), Mr. Law announced that Ms. Maguire had kindly offered to cover the future meetings and that he was appointing Mr. D'Ambrosia to chair the P802.3bp Reduced Twisted Pair Gigabit Ethernet PHY Task Force during this meeting.

Mr. Law asked the attendees to introduce themselves and announce their affiliation.

**Working Group Decorum**

Mr. Law introduced the Working Group decorum as described in his opening report. Please see [http://www.ieee802.org/3/minutes/mar14/0314\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar14/0314_802_3_opening_plenary.pdf).

Mr. Law asked if anyone was attending from the press including those who would run a public blog on this meeting. Mr. D'Ambrosia responded that he will be reporting on the meeting in a blog but this will be limited to summarizing the meeting outcomes.

Mr. Law noted that there should be no recording or photography without permission.

Mr. Law noted that participants are required to register for this meeting and pay the meeting fee. Mr. Law also noted that participants must wear their badges in public areas at all times.

### **Review and approval of agenda**

Mr. Law noted that a soft copy of the draft agenda had been posted to the minutes section for this meeting. Mr. Law gave the general minutes webpage for IEEE 802.3:

<http://www.ieee802.org/3/minutes/>

Mr. Law asked if there were any additions to the draft agenda. No one responded.

#### **MOTION #1**

Approve the agenda.

M: D. Remein

S: J. D'Ambrosia

Passed by voice vote without opposition 17-March 2014, 1:20 pm

### **Approval of November 2013 minutes**

Please see [http://www.ieee802.org/3/minutes/nov13/1113\\_minutes.pdf](http://www.ieee802.org/3/minutes/nov13/1113_minutes.pdf).

Mr. Law asked if there were any additions or corrections to the November 2013 minutes. No one responded. Mr. Law noted that the minutes were posted 28 November 2013.

#### **MOTION #2**

Approve November 2013 Plenary meeting minutes.

M: M. Laubach

S: H. Barrass

Passed by voice vote without opposition 17-March 2014, 1:22 pm

### **Call for patents**

Please see <http://standards.ieee.org/board/pat/pat-slideset.pdf>.

Mr. Law reviewed the patent policy with the Working Group.

Mr. Law asked if anyone had or was aware of any essential IP or had a letter of assurance. No one responded. Mr. Law asked that Mr. Anslow record that:

- No letters of assurance were submitted
- The patent policy, per the latest PatCom slide set, was read
- Anyone wishing to submit a letter of assurance can do so at any time by contacting Mr. Law or the PatCom administrator

Mr. Law reminded the group of inappropriate topics that should not be discussed. These included territory, market share, price, ongoing litigation, threatened litigation, etc.

Please also see

[http://www.ieee802.org/3/minutes/mar14/0314\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar14/0314_802_3_opening_plenary.pdf).

## **General Working Group business**

### IEEE 802.3 Standards

Mr. Law discussed the latest IEEE 802.3 standards and drafts. Mr. Law noted the Get IEEE 802 URL. Mr. Law listed the current documents for this meeting, including the current revision.

IEEE Std 802.3<sup>TM</sup>-2012 (30th Aug 12 / 28th Dec 12)\*

- IEEE Std 802.3bk<sup>TM</sup>-2013 (23rd Aug 13 / 30th Aug 13)\*

IEEE Std 802.3.1<sup>TM</sup>-2013 (14th Jun 13 / 2nd Aug 13)\*

\* Available through Get IEEE 802 <http://standards.ieee.org/getieee802/802.3.html>

Note 1: Dates are Approval date / Publication date

### Working Group activities since the November 2013 meeting

Please see [http://www.ieee802.org/3/minutes/mar14/0314\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar14/0314_802_3_opening_plenary.pdf).

20th through 24th January 2014, Indian Wells, CA

- IEEE 802.3 Maintenance Task Force
- IEEE P802.3bj 100 Gb/s Backplane and Copper Cable Task Force
- IEEE P802.3bm 40 Gb/s and 100 Gb/s Fiber Optic Task Force
- IEEE P802.3bn EPON Protocol over Coax (EPoC) Task Force
- IEEE P802.3bp Reduced Twisted Pair Gigabit Ethernet PHY Task Force
- IEEE P802.3bq 40GBASE-T Task Force
- IEEE P802.3br Interspersing Express Traffic Task Force
- IEEE P802.3bt DTE Power via MDI over 4-Pair Task Force
- IEEE P802.3bu 1-Pair Power over Data Lines (PoDL) Task Force
- IEEE 802.3 400 Gb/s Ethernet Study Group
- IEEE 802.3 Industry Connections NG-EPON ad hoc

Mr. Law expressed his thanks to Xilinx for hosting the interim meeting.

### IEEE 802.3 Ballots since the Last Plenary

Mr. Law noted the IEEE 802.3 ballots since the last meeting. Below is a summary of the ballots and ballot invitations that Mr. Law showed and can be found in the opening slides.

Working Group Ballots:

- IEEE P802.3bm initial
- IEEE P802.3bm 1st recirculation

#### Sponsor Ballots:

- IEEE P802.3bj initial
- IEEE P802.3bj 1st recirculation

#### Sponsor Ballot group formations

- IEEE P802.3bm in progress

Please see [http://www.ieee802.org/3/minutes/mar14/0314\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar14/0314_802_3_opening_plenary.pdf).

#### Documents

Mr. Law went over the current WG documents for this meeting's business.

#### IEEE P802.3bj 100 Gb/s Backplane and Copper Cable Task Force

- IEEE P802.3bj/D3.1 and 1st Sponsor recirculation ballot comments

#### IEEE P802.3bm 40 Gb/s and 100 Gb/s Fiber Optic Task Force

- IEEE P802.3bm/D2.1 and 1st Working Group recirculation ballot comments

#### IEEE P802.3bp Reduced Twisted Pair Gigabit Ethernet PHY

- IEEE P802.3bp [PAR modification](#) and supporting unmodified [CSD responses](#) (grandfathered 5 Criteria responses)  
IEEE P802.3bp Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for 1 Gb/s Operation over a Single Twisted Pair Copper Cable

#### IEEE 802.3 400 Gb/s Ethernet Study Group

- New [PAR request](#) and supporting [CSD](#) and [objectives](#)  
IEEE P802.3bs Standard for Ethernet Amendment: Media Access Control Parameters, Physical Layers and Management Parameters for 400 Gb/s Operation

Please see [http://www.ieee802.org/3/minutes/mar14/0314\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar14/0314_802_3_opening_plenary.pdf).

#### Attendance procedures, tool, books and address/e-mail list maintenance

Mr. Law explained the membership requirements (gaining and retaining)

- 75% attendance at 2 of last 4 plenary meetings (a qualifying interim may be substituted for one plenary)
- Request to become member during IEEE 802.3 potential voter agenda item
- Maintain valid contact information
- Participate in 2 of last 3 WG ballots

Please see <http://ieee802.org/3/rules/index.html> for complete information.

Mr. Law emphasized that declaration of affiliation is a requirement to obtain credit for meeting attendance.

Mr. Law stated that the IEEE 802.3 Working Group will record meeting attendance using the IEEE-SA Meeting Attendance Tool.

Mr. Anslow reminded participants that, to use the tool, one must have an IEEE Web Account. Mr. Anslow presented a tutorial on how to acquire an IEEE Web Account and how to use the IEEE-SA Meeting Attendance tool.

Please see [http://iee802.org/3/minutes/mar14/0314\\_imat.pdf](http://iee802.org/3/minutes/mar14/0314_imat.pdf).

Mr. Anslow reminded participants to verify that the contact information (including employer) in their IEEE Web Account is current and correct. To maintain voting status, contact information must be up-to-date.

Mr. Anslow also reminded participants of the requirement to declare affiliation for this meeting and that this should be checked for correctness in the meeting attendance tool.

#### Review of voting membership

Please see [http://www.iee802.org/3/minutes/mar14/0314\\_voters.pdf](http://www.iee802.org/3/minutes/mar14/0314_voters.pdf).

#### Review of voters in peril

Please see [http://www.iee802.org/3/minutes/mar14/0314\\_peril.pdf](http://www.iee802.org/3/minutes/mar14/0314_peril.pdf).

Mr. Law explained that the list of voters in peril had been modified to also show "departing voters" who are voters with an attendance record such that they would not be voters after this session.

#### Request for membership

Please see [http://www.iee802.org/3/minutes/mar14/0314\\_potential.pdf](http://www.iee802.org/3/minutes/mar14/0314_potential.pdf).

Mr. Law went through the Potential Voters list. Mr. Anslow recorded the respondents:

Ahmad, Faisal  
Mueller, Thomas  
Panguluri, Sessa  
Poehmerer, Rainer  
Schindler, Fred  
Schneelee, Stefan  
Tan, Alexander  
Wang, Tongtong  
Wang, Xinyuan  
Zhang, Jin  
Zhuang, Yan

#### Reflectors and WG information

Mr. Law reviewed the reflector policy, the process for subscribing and unsubscribing to the reflector, and the web site.

Please see [http://www.iee802.org/3/minutes/mar14/0314\\_802\\_3\\_opening\\_plenary.pdf](http://www.iee802.org/3/minutes/mar14/0314_802_3_opening_plenary.pdf).

#### **IEEE 802.3 Treasurer's report – Valerie Maguire**

Please see [http://iee802.org/3/minutes/mar14/0314\\_treasury.pdf](http://iee802.org/3/minutes/mar14/0314_treasury.pdf).

## **Standards Board report (December meeting)**

Please see [http://www.ieee802.org/3/minutes/mar14/0314\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar14/0314_802_3_opening_plenary.pdf).

## **IEEE 802 Executive Committee report**

Please see [http://www.ieee802.org/3/minutes/mar14/0314\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar14/0314_802_3_opening_plenary.pdf).

### EC Meetings for the week

Mr. Law reminded the group that elections will be held in this meeting for all of the 802 leadership positions, including Chair and Vice-Chair of the 802.3 Working Group.

Mr. Law reviewed the schedule of EC meetings for the plenary week.

Please see [http://www.ieee802.org/3/minutes/mar14/0314\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar14/0314_802_3_opening_plenary.pdf).

There was considerable concern expressed regarding the size of the expected deficit from the Beijing plenary.

## **Other 802 PARs under consideration this week (comments due by 17:00 Tuesday)**

Please see [http://www.ieee802.org/3/minutes/mar14/0314\\_agenda\\_open.pdf](http://www.ieee802.org/3/minutes/mar14/0314_agenda_open.pdf).

### New Standard PAR

- IEEE P802.11tbd Enhancements for Highly Efficient Wireless LAN [PAR](#) and [CSD](#)
- IEEE P802.15.3d 100Gb/s wireless switched point-to-point physical layer, [PAR](#) and [CSD](#)
- IEEE P802.15.4r Radio based Distance Measurement Techniques, [PAR](#) and [CSD](#)

### Revision PAR

- IEEE P802.22 Revision PAR for 802.22-2011, [PAR](#) and [5C](#)

Mr. Law asked if anyone wished to chair an Ad Hoc to review these PARs and submit comments on behalf of the Working Group. There were no requests to do this.

## **LIAISONS**

### **External Liaison reports**

*ISO/IEC SC25/WG3 report – Alan Flatman*

Please see

[http://www.ieee802.org/3/minutes/mar14/0314\\_SC25\\_WG3\\_report\\_to\\_802d3.pdf](http://www.ieee802.org/3/minutes/mar14/0314_SC25_WG3_report_to_802d3.pdf).

*TIA TR-42 report – Valerie Maguire*

Please see

[http://www.ieee802.org/3/minutes/mar14/0314\\_TIA\\_TR-42\\_report\\_to\\_802d3.pdf](http://www.ieee802.org/3/minutes/mar14/0314_TIA_TR-42_report_to_802d3.pdf).

### **External Liaison letters (old)**

*ITU SG15: SG15 OTNT Standardization Work Plan [liaison letter](#) and [attachment](#)*

Consideration of this letter was deferred from the July 2013 meeting due the alignment of the ITU-T SG15 and IEEE 802.3 meeting schedules. Mr. Law requested Mr. Abbas to chair an ad hoc to draft a response to be reviewed at the closing plenary.

**External Liaison letters (new)**

*TIA TR-42: Regarding harmonization of single-mode connection return loss [liaison letter](#) – Valerie Maguire*

Mr. Law appointed Mr. D’Ambrosia to review the letter and generate a response, as appropriate, for consideration at the closing plenary.

*ISO/IEC SC25/WG3: Regarding higher levels of Power over Ethernet on balanced cabling channels [liaison letter](#) – Alan Flatman*

Mr. Law appointed the P802.3bt Task Force to review the letter and generate a response, as appropriate, for consideration at the closing plenary.

**External Liaison letters (new, information item)**

*IEEE 1905.1 Convergent Digital Home Network (CDHN) Working Group: Liaison response on the establishment of a formal bi-directional liaison with IEEE 802 [liaison letter](#).*

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Break at approximately 3:40 pm. Restarted at approximately 3:55 pm.

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**STATE OF THE STANDARD**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_state\\_of\\_std.pdf](http://ieee802.org/3/minutes/mar14/0314_state_of_std.pdf).

**IEEE 802.3 OPERATING RULES**

Mr. Healey reviewed a set of proposed changes to the IEEE 802.3 Working Group operating rules. Please see

[http://ieee802.org/3/minutes/mar14/0314\\_rules\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_rules_open_report.pdf)

**IEEE 802.3 Maintenance – Adam Healey**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_maint\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_maint_open_report.pdf).

**FUTURE MEETINGS**

Ms. Maguire (standing in for Mr. Carlson) reviewed the future meeting plan. Please see [http://ieee802.org/3/minutes/mar14/0314\\_meetings\\_open.pdf](http://ieee802.org/3/minutes/mar14/0314_meetings_open.pdf).

## **TASK FORCE AND STUDY GROUP REPORTS**

### **IEEE P802.3bj 100 Gb/s Backplane and Copper Cable Task Force – Adam Healey**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_bj\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_bj_open_report.pdf).

### **IEEE P802.3bm 40 Gb/s and 100 Gb/s Fiber Optic Task Force – Dan Dove**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_bm\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_bm_open_report.pdf).

### **IEEE P802.3bn EPON Protocol over Coax (EPoC) Task Force – Mark Laubach**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_bn\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_bn_open_report.pdf).

### **IEEE 802.3bp Reduced Twisted Pair Gigabit Ethernet Task Force – John D’Ambrosia**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_bp\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_bp_open_report.pdf).

### **IEEE P802.3bq 40GBASE-T Task Force – Dave Chalupsky**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_bq\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_bq_open_report.pdf).

### **IEEE P802.3br Interspersing Express Traffic Task Force – Ludwig Winkel**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_br\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_br_open_report.pdf).

### **IEEE P802.3bt DTE Power via MDI over 4-Pair Task Force – Chad Jones**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_bt\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_bt_open_report.pdf).

### **IEEE P802.3bu 1-Pair Power over Data Lines (PoDL) Task Force – Dave Dwelley**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_bu\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_bu_open_report.pdf).

### **IEEE 802.3 400 Gb/s Ethernet Study Group – John D’Ambrosia**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_400g\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_400g_open_report.pdf).

### **IEEE 802.3 Industry Connections NG-EPON ad hoc – Howard Frazier**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_ngepon\\_open.pdf](http://ieee802.org/3/minutes/mar14/0314_ngepon_open.pdf)

## **CALL FOR INTEREST**

### **Gigabit Plastic Optical Fibre (POF) – Carlos Pardo**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_gpof\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_gpof_open_report.pdf)

### **100 Mb/s operation over a single twisted pair – Thomas Hogenmueller**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_100m\\_stp\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_100m_stp_open_report.pdf)



## **25 Gb/s Ethernet – Brad Booth**

Please see [http://iee802.org/3/minutes/mar14/0314\\_25g\\_open\\_report.pdf](http://iee802.org/3/minutes/mar14/0314_25g_open_report.pdf)

## **ROOM ASSIGNMENTS, AND SUBGROUP SCHEDULES**

Ms. Maguire reviewed the room assignments. Please see [http://iee802.org/3/minutes/mar14/0314\\_rooms.pdf](http://iee802.org/3/minutes/mar14/0314_rooms.pdf).

## **ADJOURN**

No other items of business were presented.

### **MOTION #3**

Move to adjourn.

M: G Thompson

S: D Remein

Procedural (> 50%)

Passed by voice vote without opposition 17-March 2014, 5:53 pm

Adjourned.

**Approved Minutes**  
**IEEE 802.3 Ethernet Working Group plenary**  
**Beijing, China**  
**March 17 to 20, 2014**

<http://www.ieee802.org/3/minutes/mar14/index.html>

**THURSDAY, MARCH 20, 2014**

**ADMINISTRATIVE MATTERS**

**Call to order**

Mr. David Law, Chair of the IEEE 802.3 Ethernet Working Group, called the meeting to order at 1:03 pm.

**Welcome, introductions, and general announcements**

Mr. Law introduced the officers of the IEEE 802.3 Working Group.

IEEE 802.3 Chair: David Law

IEEE 802.3 Vice-Chair: Adam Healey

IEEE 802.3 Secretary: Pete Anslow

IEEE 802.3 Treasurer: Valerie Maguire

IEEE 802.3 Task Force chairs

- IEEE P802.3bj 100 Gb/s Backplane and Copper Cable: Adam Healey
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- IEEE P802.3bt DTE Power via MDI over 4-Pair: Chad Jones
- IEEE P802.3bu 1-Pair Power over Data Lines (PoDL): Dave Dwelley

IEEE 802.3 Study Group chairs

- IEEE 802.3 400 Gb/s Ethernet: John D'Ambrosia

Mr. Law asked the attendees to introduce themselves and announce their affiliation.

**Working Group Decorum**

Mr. Law also introduced the Working Group decorum as described in his closing report. Please see [http://www.ieee802.org/3/minutes/mar14/0314\\_802\\_3\\_closing\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar14/0314_802_3_closing_plenary.pdf).

Mr. Law asked if anyone was attending from the press including those who would run a public blog on this meeting. Mr. D'Ambrosia responded that he will be reporting on the meeting in a blog but this will be limited to summarizing the meeting outcomes.

Mr. Law noted that there should be no recording or photography without permission.

Mr. Law noted that participants are required to register for this meeting and pay the meeting fee. Mr. Law also noted that participants must wear their badges in public areas at all times.

Mr. Law emphasized that attendees should observe proper decorum in meetings.

### **Approval of the Agenda**

Mr. Law asked if there were any additions to the draft agenda. No one responded.

#### **MOTION #1**

Motion to approve the agenda.

M: S. Trowbridge

S: A. Flatman

Passed by voice vote without opposition 20-March 2014, 1:18 pm

### **Call for patents**

Please see <http://standards.ieee.org/board/pat/pat-slideset.pdf>.

Mr. Law asked if anyone had not seen the patent slides during the meeting week. No one responded.

Mr. Law asked if anyone had or was aware of any essential IP or had a letter of assurance, and no one came forth. Mr. Law asked that Mr. Anslow record that:

- No letters of assurance were submitted
- Anyone wishing to submit a letter of assurance can do so at any time by contacting Mr. Law or the PatCom administrator

Mr. Law reminded the group of inappropriate topics that should not be discussed. These included territory, market share, price, ongoing litigation, threatened litigation, etc. and read the slides. Please see [http://www.ieee802.org/3/minutes/mar14/0314\\_802\\_3\\_closing\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar14/0314_802_3_closing_plenary.pdf).

### **GENERAL WG BUSINESS**

#### Membership and Attendance

Mr. Law reminded participants that attendance is being recorded by the IEEE-SA Meeting Attendance tool. Mr. Law noted that attendance must be logged for the afternoon closing plenary session to get credit for the Thursday meeting.

#### Review of voting membership

Please see [http://www.ieee802.org/3/minutes/mar14/0314\\_voters.pdf](http://www.ieee802.org/3/minutes/mar14/0314_voters.pdf).

#### Review of voters in peril

Please see [http://www.ieee802.org/3/minutes/mar14/0314\\_peril.pdf](http://www.ieee802.org/3/minutes/mar14/0314_peril.pdf).

### Request for membership

Please see [http://www.ieee802.org/3/minutes/mar14/0314\\_potential.pdf](http://www.ieee802.org/3/minutes/mar14/0314_potential.pdf).

Mr. Law went through the Potential Voters list. Mr. Anslow recorded the respondents.

Gong, Zhigang  
Ulrichs, Ed  
Unmehopa, Musa

### Reflectors and WG information

Mr. Law reviewed the reflector policy, the process for subscribing and unsubscribing to the reflector, and the web site.

Please see [http://www.ieee802.org/3/minutes/mar14/0314\\_802\\_3\\_closing\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar14/0314_802_3_closing_plenary.pdf).

### **IEEE 802 Executive Committee items**

Please see [http://www.ieee802.org/3/minutes/mar14/0314\\_802\\_3\\_closing\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar14/0314_802_3_closing_plenary.pdf).

Mr. Law noted that, since there was no input offered from the Working Group, he would vote on the PARs considered by the EC this week based on the discussion at the EC meeting.

### **IEEE 802.3 Chair and Vice-Chair elections**

Mr. Law explained that according to the IEEE 802 LMSC P&P elections of the Working Group Chair and Vice Chair occur the first plenary meeting of even numbered years. Mr. Law reviewed the election rules adopted in the November 2013 plenary. Please refer to slides 16 to 18 of

[http://www.ieee802.org/3/minutes/mar14/0314\\_802\\_3\\_closing\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar14/0314_802_3_closing_plenary.pdf)

Mr. Law noted that the only nomination received for IEEE 802.3 Working Group Chair was Mr. Law himself. Mr. Law noted that the only nomination received for IEEE 802.3 Working Group Vice-Chair was Mr. Healey.

Mr. Healey, acting as Election Chair, requested that Mr. Law leave the room for the discussion and the vote.

#### **802.3 Chair Election**

Elect Mr. David Law to Chair of 802.3

Y: 88, N: 0

Mr. Law elected as Chair of 802.3 20-March 2014, 1:53 pm

Mr. Law requested that Mr. Healey leave the room for the discussion and the vote.

### **802.3 Vice-Chair Election**

Elect Mr. Adam Healey to Vice-Chair of 802.3

Y: 89, N: 0

Mr. Healey elected as Vice-Chair of 802.3 20-March 2014, 2:00 pm

### **Appointment of liaison officers**

#### Appointment of liaison officer from IEEE 802.3 to ITU-T SG15

Mr. Law stated that he proposes to appoint Pete Anslow the IEEE 802.3 liaison officer to ITU-T SG15

### **Motion #2**

The IEEE 802.3 Working Group confirms the appointment of Peter Anslow as the IEEE 802.3 liaison officer to ITU-T SG15

M: H Barrass

S: G Thompson

> 50%

Passed by voice vote without opposition 20-March 2014, 2:07 pm

### **External liaison letters**

#### ISO/IEC SC25/WG3: Regarding higher levels of Power over Ethernet on balanced cabling channels liaison letter

Mr. Law noted that this item would be covered as part of the P802.3bt Task Force closing plenary report.

#### ITU SG15: SG15 OTNT Standardization Work Plan liaison letter

Mr. Abbas presented the proposed liaison response to ITU-T SG15. Please see:

[http://iee802.org/3/minutes/mar14/outgoing/IEEE\\_802d3\\_to\\_ITU-T\\_SG15\\_0314\\_draft.pdf](http://iee802.org/3/minutes/mar14/outgoing/IEEE_802d3_to_ITU-T_SG15_0314_draft.pdf)

**MOTION #3**

Move that IEEE 802.3 WG approve the text in IEEE\_802d3\_to\_ITU-T\_SG15\_0314.pdf with editorial license granted to the Chair (or his appointed agent) as a liaison communication by the Chair to ITU-T SG15.

M: G. Abbas

S: P. Stassar

Technical ( $\geq 75\%$ )

Y: 77, N: 0, A: 2

Passed 20-March 2014, 2:21 pm

**TIA TR-42: Regarding harmonization of single-mode connection return loss liaison letter**

Mr. Law noted that this item would be covered as part of the 400 Gb/s Study Group closing plenary report.

**Future meetings actions – Valerie Maguire**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_meetings\\_close.pdf](http://ieee802.org/3/minutes/mar14/0314_meetings_close.pdf).

There was some discussion on the location for the March 2015 Plenary for which options were Barcelona and Berlin followed by the location for the July 2017 Plenary for which options were Hawaii, Copenhagen, and Berlin.

A sense of the room was taken for support for the latter three options for July 2017 by a show of hands.

**MOTION #4**

Move to give the chair a directed position to support Berlin for the March 2015 Plenary.

M: S. Trowbridge

S: J. D'Ambrosia

>50%

Passed by voice vote without opposition 20-March 2014, 2:57 pm

**MOTION #5**

Move to give the chair a directed position to support Berlin for the July 2017 Plenary.

M: J. D'Ambrosia

S: B. Booth

>50%

Passed by voice vote without opposition 20-March 2014, 2:59 pm

## REPORTS

### IEEE 802.3 Operating Rules

Mr. Healey reviewed the revised set of proposed changes to the IEEE 802.3 Working Group operating rules. Please see

[http://iee802.org/3/minutes/mar14/0314\\_rules\\_close\\_report.pdf](http://iee802.org/3/minutes/mar14/0314_rules_close_report.pdf)

### IEEE 802.3 Maintenance – Adam Healey

Please see [http://iee802.org/3/minutes/mar14/0314\\_maint\\_close\\_report.pdf](http://iee802.org/3/minutes/mar14/0314_maint_close_report.pdf).

#### MOTION #6

Reject MR 1195 since it has not been progressed by the submitter.

M: A. Healey

S: H. Barrass

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 20-March 2014, 3:11 pm

### IEEE P802.3bj 100 Gb/s Backplane and Copper Cable Task Force – Adam Healey

Please see [http://iee802.org/3/minutes/mar14/0314\\_bj\\_close\\_report.pdf](http://iee802.org/3/minutes/mar14/0314_bj_close_report.pdf).

#### MOTION #7

Request conditional approval to submit IEEE P802.3bj to RevCom.

M: A. Healey on behalf of the Task Force

Technical ( $\geq 75\%$ )

Y: 72, N: 0, A: 2

Passed 20-March 2014, 3:21 pm

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Break at approximately 3:22 pm. Restarted at approximately 3:38 pm.

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**MOTION #8**

Working Group affirms the IEEE P802.3bj responses to the Criteria for Standards Development (grand-fathered as 5 Criteria).

M: A. Healey

S: M. Brown

Technical ( $\geq 75\%$ )

Y: 73, N: 0, A: 0

Passed 20-March 2014, 3:42 pm

**IEEE P802.3bm 40 Gb/s and 100 Gb/s Fiber Optic Task Force – Dan Dove**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_bm\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_bm_close_report.pdf).

Mr. Dove presented the 5 criteria responses for the IEEE P802.3bm project.

**MOTION #9**

Move that the IEEE 802.3 Working Group reaffirm the IEEE P802.3bm responses to the Criteria for Standards (grandfathered 5 Criteria Responses) as defined on pages 11 to 17 of 0314\_bm\_close\_report.pdf.

M: P. Anslow

S: D. Dove

Technical ( $\geq 75\%$ )

Y: 88, N: 0, A: 4

Passed 20-March 2014, 3:50 pm

Mr. Dove presented the unsatisfied negative comments on P802.3bm draft 2.1.

**MOTION #10**

Grant conditional approval to progress IEEE Draft P802.3bm to IEEE 802 LMSC sponsor ballot once the Working Group ballot process has been successfully completed.

M: D. Dove

S: P. Anslow

Technical ( $\geq 75\%$ )

Y: 89, N: 0, A: 0

Passed 20-March 2014, 3:56 pm

**IEEE P802.3bn EPON Protocol over Coax (EPoC) Task Force – Mark Laubach**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_bn\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_bn_close_report.pdf).



**IEEE P802.3bp Reduced Twisted Pair Gigabit Ethernet Task Force – John D’Ambrosia**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_bp\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_bp_close_report.pdf).

Acting Chair Mr. D’Ambrosia (who stood in for the P802.3bp Chair Steve Carlson for this meeting) presented the proposed changes to the P802.3bp PAR.

**MOTION #11**

Request that the 802.3 Working Group approve the PAR changes detailed in DRAFT Updated PAR: [www.ieee802.org/3/bp/public/jan14/P802\\_3\\_PAR\\_change\\_0114.pdf](http://www.ieee802.org/3/bp/public/jan14/P802_3_PAR_change_0114.pdf).

M: J. D’Ambrosia on behalf of the Task Force

Technical ( $\geq 75\%$ )

Y: 81, N: 0, A: 3

Passed 20-March 2014, 4:12 pm

Mr. D’Ambrosia presented the proposed changes to the P802.3bp objectives.

**MOTION #12**

Request that the 802.3 Working Group approve the Objective changes detailed in DRAFT Updated Objectives:

[www.ieee802.org/3/bp/public/jan14/Updated\\_Objectives\\_0114.pdf](http://www.ieee802.org/3/bp/public/jan14/Updated_Objectives_0114.pdf).

M: J. D’Ambrosia on behalf of the Task Force

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 20-March 2014, 4:15 pm

**MOTION #13**

Working Group affirms the IEEE P802.3bp responses to the Criteria for Standards Development (grand-fathered 5 Criteria).

M: J. D’Ambrosia

S: G. Zimmerman

Technical ( $\geq 75\%$ )

Y: 88, N: 0, A: 1

Passed 20-March 2014, 4:20 pm

**IEEE P802.3bq 40GBASE-T Task Force – Dave Chalupsky**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_bq\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_bq_close_report.pdf).

**IEEE P802.3br Interspersing Express Traffic Task Force – Ludwig Winkel**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_br\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_br_close_report.pdf).

**IEEE P802.3bt DTE Power via MDI over 4-Pair Task Force – Chad Jones**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_bt\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_bt_close_report.pdf).

Mr. Jones presented the proposed liaison response to ISO/IEC/JTC1 SC25 WG3. Please see:

[http://www.ieee802.org/3/minutes/mar14/outgoing/IEEE\\_802d3\\_to\\_SC25\\_0314\\_draft.pdf](http://www.ieee802.org/3/minutes/mar14/outgoing/IEEE_802d3_to_SC25_0314_draft.pdf)

**MOTION #14**

Move to adopt the liaison response in IEEE\_802d3\_to\_SC25\_0314.pdf and to grant the working group chair editorial privilege.

M: C. Jones

S: M. Wendt

Technical ( $\geq 75\%$ )

Y: 74, N: 0, A: 0

Passed 20-March 2014, 4:43 pm

Mr. Jones presented the proposed liaison response to TIA TR-42. Please see:

[http://www.ieee802.org/3/minutes/mar14/outgoing/IEEE\\_802d3\\_to\\_TR\\_42\\_PoE\\_0314\\_draft.pdf](http://www.ieee802.org/3/minutes/mar14/outgoing/IEEE_802d3_to_TR_42_PoE_0314_draft.pdf)

**MOTION #15**

Move to adopt the liaison response in IEEE\_802d3\_to\_TR\_42\_0314.pdf and to grant the working group chair editorial privilege.

M: C. Jones

S: F. Schindler

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 20-March 2014, 4:47 pm

**IEEE P802.3bu 1-Pair Power over Data Lines (PoDL) Task Force – David Dwelley**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_bu\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_bu_close_report.pdf).

**IEEE 802.3 400 Gb/s Ethernet Study Group – John D’Ambrosia**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_400g\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_400g_close_report.pdf).

Mr. D’Ambrosia presented the IEEE P802.3bs 400Gb/s Ethernet proposed objectives.

**MOTION #16**

Move that 802.3 approve the IEEE P802.3bs 400Gb/s Ethernet objectives, as per 0314\_400g\_closing\_report.pdf.

M: J. D’Ambrosia

S: P. Anslow

Technical ( $\geq 75\%$ )

Passed by voice without opposition 20-March 2014, 5:00 pm

Mr. D’Ambrosia presented the IEEE P802.3bs 400Gb/s Ethernet proposed PAR.

**MOTION #17**

Move that 802.3 approve the IEEE P802.3bs 400Gb/s Ethernet PAR, per PAR\_400\_14\_0121.pdf.

M: J. D’Ambrosia

S: P. Anslow

Technical ( $\geq 75\%$ )

Y: 85, N: 0, A: 0

Passed 20-March 2014, 5:06 pm

Mr. D’Ambrosia presented the IEEE P802.3bs 400Gb/s Ethernet proposed CSD “Managed Objects” response.

**MOTION #18**

Move that 802.3 approve the IEEE P802.3bs 400Gb/s Ethernet CSD “Managed Objects” per 0314\_400g\_closing\_report.pdf.

M: J. D’Ambrosia

S: H. Frazier

Technical ( $\geq 75\%$ )

Y: 92, N: 0, A: 1

Passed 20-March 2014, 5:09 pm

Mr. D’Ambrosia presented the IEEE P802.3bs 400Gb/s Ethernet proposed CSD “Broad Market Potential” response.

**MOTION #19**

Move that 802.3 approve the IEEE P802.3bs 400Gb/s Ethernet Broad Market Potential Criterion per 0314\_400g\_closing\_report.pdf.

M: J. D’Ambrosia

S: D. Ofelt

Technical ( $\geq 75\%$ )

Y: 88, N: 0, A: 1

Passed 20-March 2014, 5:12 pm

Mr. D’Ambrosia presented the IEEE P802.3bs 400Gb/s Ethernet proposed CSD “Compatibility” response.

**MOTION #20**

Move that 802.3 approve the IEEE P802.3bs 400Gb/s Ethernet Compatibility Criterion per 0314\_400g\_closing\_report.pdf.

M: J. D’Ambrosia

S: H. Barrass

Technical ( $\geq 75\%$ )

Y: 87, N: 0, A: 1

Passed 20-March 2014, 5:14 pm

Mr. D’Ambrosia presented the IEEE P802.3bs 400Gb/s Ethernet proposed CSD “Distinct Identity” response.

**MOTION #21**

Move that 802.3 approve the IEEE P802.3bs 400Gb/s Ethernet Distinct Identity Criterion per 0314\_400g\_closing\_report.pdf.

M: J. D’Ambrosia

S: H. Barrass

Technical ( $\geq 75\%$ )

Y: 83, N: 0, A: 0

Passed 20-March 2014, 5:15 pm

Mr. D’Ambrosia presented the IEEE P802.3bs 400Gb/s Ethernet proposed CSD “Technical Feasibility” response.

**MOTION #22**

Move that 802.3 approve the IEEE P802.3bs 400Gb/s Ethernet Technical Feasibility Criterion, per 0314\_400g\_closing\_report.pdf.

M: J. D’Ambrosia

S: S. Trowbridge

Technical ( $\geq 75\%$ )

Y: 79, N: 0, A: 3

Passed 20-March 2014, 5:19 pm

Mr. D’Ambrosia presented the IEEE P802.3bs 400Gb/s Ethernet proposed CSD “Economic Feasibility” response.

**MOTION #23**

Move that 802.3 approve the IEEE P802.3bs 400Gb/s Ethernet Economic Feasibility Criterion, per 0314\_400g\_closing\_report.pdf.

M: J. D’Ambrosia

S: S. Trowbridge

Technical ( $\geq 75\%$ )

Y: 83, N: 0, A: 5

Passed 20-March 2014, 5:22 pm

It was pointed out that this is the 3rd extension of the Study Group.

**MOTION #24**

Move that IEEE 802.3 Working Group extends the 400 Gb/s Ethernet Study Group.

M: J. D’Ambrosia on behalf of the Study Group.

> 50%

Y: 82, N: 0, A: 2

Passed 20-March 2014, 5:24 pm

Mr. D’Ambrosia presented a proposed liaison response to TIA TR-42. Please see [http://www.ieee802.org/3/minutes/mar14/outgoing/IEEE\\_802d3\\_to\\_TR\\_42\\_0314\\_draft.pdf](http://www.ieee802.org/3/minutes/mar14/outgoing/IEEE_802d3_to_TR_42_0314_draft.pdf).

**MOTION #25**

Move that IEEE 802.3 approve the text in IEEE\_802d3\_to\_TR\_42\_0314.pdf with editorial license granted to the Chair (or his appointed agent), as a liaison communication from the IEEE 802.3 Working Group to TIA TR-42.

M: J. D'Ambrosia

S: S. Trowbridge

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 20-March 2014, 5:28 pm

Mr. Law announced his intent to appoint Mr. John D'Ambrosia as Chair of the IEEE P802.3bs Task Force should it be approved.

**IEEE 802.3 Industry Connections NG-EPON ad hoc – Howard Frazier**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_ngepon\\_close.pdf](http://ieee802.org/3/minutes/mar14/0314_ngepon_close.pdf)

**CALL FOR INTEREST****Gigabit Plastic Optical Fibre (POF) – Carlos Pardo**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_gpof\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_gpof_close_report.pdf)

**MOTION #26**

Authorize formation of a Study Group to develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) document for Gigabit Ethernet over Plastic Optical Fibre.

M: C. Pardo

S: G. Thompson

> 50%

Y: 35, N 17:, A: 33

Passed 20-March 2014, 6:19 pm

Mr. Law announced that, should the Study Group be approved, he will appoint Mr. Grow to be chair of the Study Group.

**100 Mb/s operation over a single twisted pair – Thomas Hogenmueller**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_100m\\_stp\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_100m_stp_close_report.pdf)

**MOTION #27**

Request that IEEE 802.3 WG form a study group to develop a PAR and 5 Criteria for a:  
1 Twisted Pair 100 Mbit/s Ethernet (1TPCE) PHY

M: K. Matheus

S: M. Tazebay

> 50%

Y: 72, N: 0, A: 10

Passed 20-March 2014, 6:25 pm

Mr. Law announced that, should the Study Group be approved, he will appoint Mr. Hogenmueller to be chair of the Study Group.

**25 Gb/s Ethernet – Brad Booth**

Please see [http://ieee802.org/3/minutes/mar14/0314\\_25g\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar14/0314_25g_close_report.pdf)

**OTHER BUSINESS**

Mr. Flatman gave an update on cabling recommendations for 40GBASE-T.

**ADJOURN****MOTION #28**

Move to adjourn.

M: H. Barrass

S: J. D'Ambrosia

Procedural (> 50%)

Passed by voice without opposition 20-March 2014, 6:32 pm

Adjourned.

The list of participants for this meeting (including employers and affiliations) can be found at:

[http://ieee802.org/3/minutes/mar14/0314\\_attendance\\_beijing.pdf](http://ieee802.org/3/minutes/mar14/0314_attendance_beijing.pdf)