

# IEEE P802.3 WG Opening Report

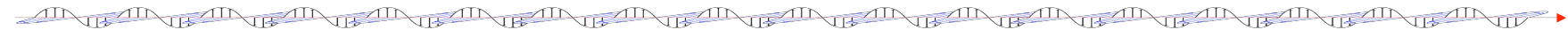
IEEE 802.3bm

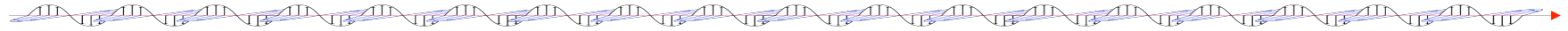
40 Gb/s and 100 Gb/s Fiber Optic Task Force

Dan Dove

Applied Micro

Geneva, CH – 15 July 2013





# IEEE P802.3bm Task Force Organization

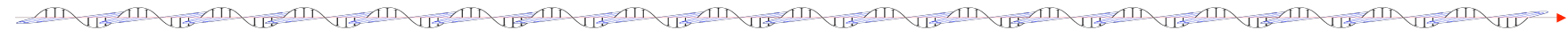
Dan Dove – Chair

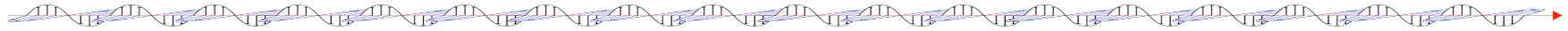
Kapil Shrikhande – Vice Chair

Pete Anslow – Chief Editor, SMF Editor

Jonathan King – MMF Editor

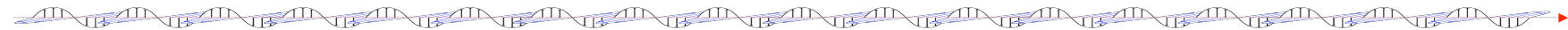
Ryan Latchman – CAUI-4 Editor

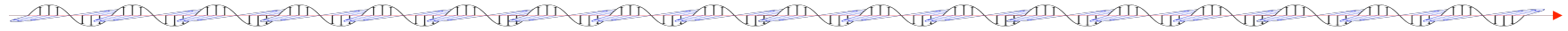




# Reflector & Web

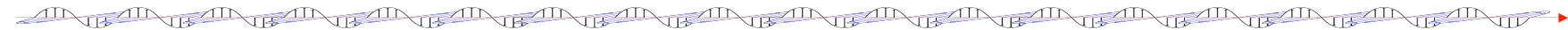
- To subscribe to the 40 Gb/s and 100 Gb/s Fiber Optic reflector send an email to: [Listserve.ieee.org](mailto:Listserve.ieee.org) with the following in the body of the message (do not include “<>”):  
subscribe stds-802-3-100GNGOPTX <yourfirstname> <yourlastname
- Send 40 Gb/s and 100 Gb/s Fiber Optic reflector messages to:  
[stds-802-3-100GNGOPTX-request@listserv.ieee.org](mailto:stds-802-3-100GNGOPTX-request@listserv.ieee.org)
- Task Force web page URL:  
<http://www.ieee802.org/3/bm/index.html>

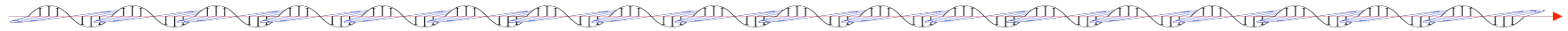




# Project Documentation

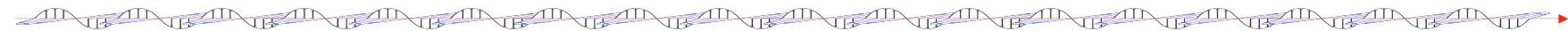
- **PAR** (as amended in Jan 2013)
  - [http://www.ieee802.org/3/bm/P802.3bm\\_May2013.pdf](http://www.ieee802.org/3/bm/P802.3bm_May2013.pdf)
- **5 Criteria**
  - [http://www.ieee802.org/3/bm/P8023bm\\_5Criteria\\_1112.pdf](http://www.ieee802.org/3/bm/P8023bm_5Criteria_1112.pdf)
- **Objectives**
  - [http://www.ieee802.org/3/bm/P8023bm\\_Objectives\\_1112.pdf](http://www.ieee802.org/3/bm/P8023bm_Objectives_1112.pdf)
- **Timeline**
  - [http://www.ieee802.org/3/bm/timeline\\_0912.pdf](http://www.ieee802.org/3/bm/timeline_0912.pdf)



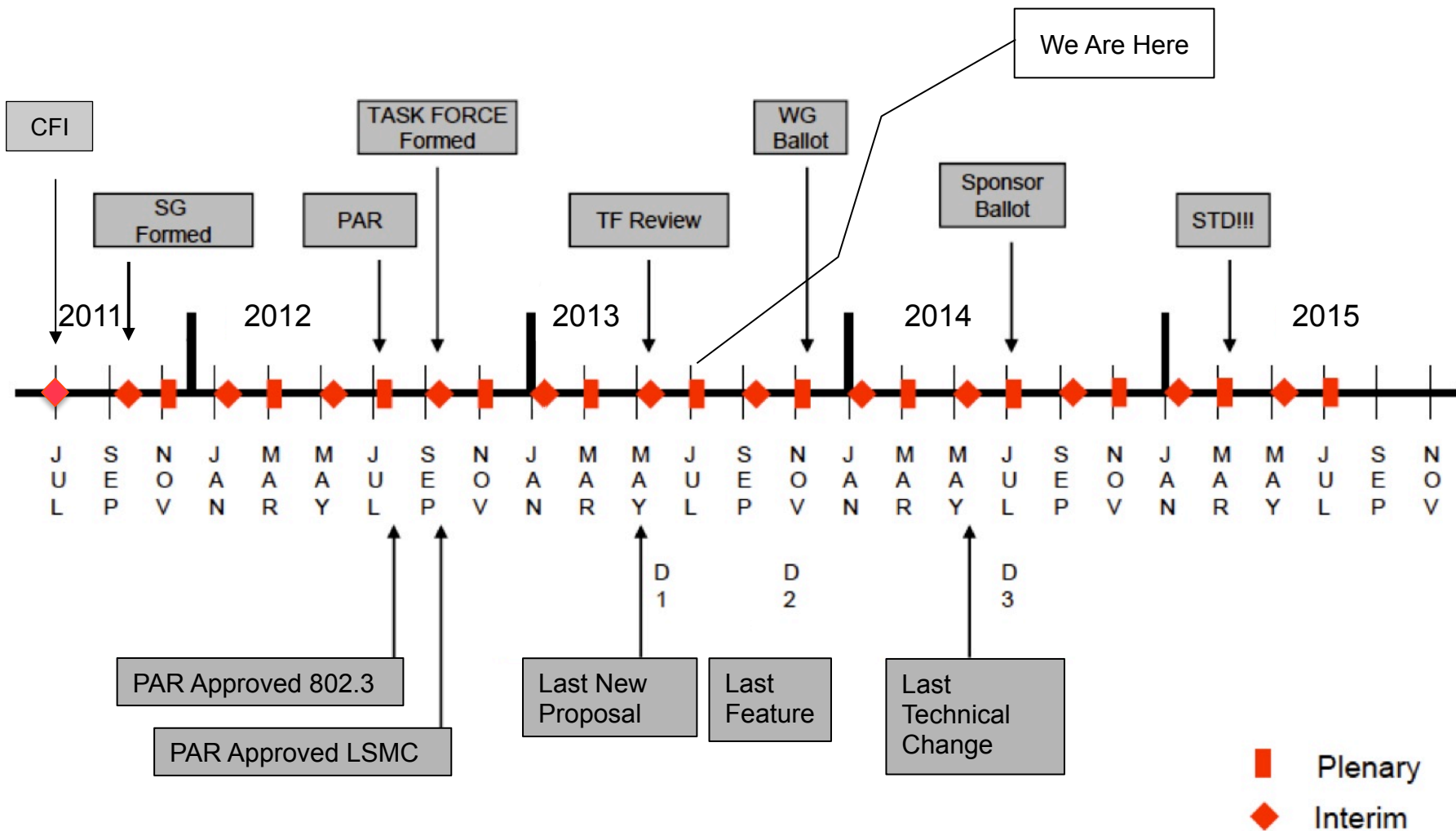


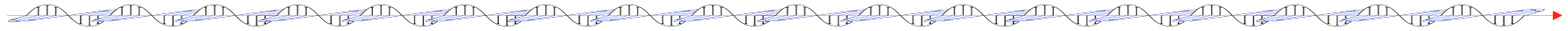
# IEEE P802.3bm Task Force Objectives

- ✧ Support full-duplex operation only
- ✧ Preserve the IEEE 802.3 / Ethernet frame format utilizing the IEEE 802.3 MAC
- ✧ Preserve minimum and maximum FrameSize of current IEEE 802.3 standard
- ✧ Support a BER better than or equal to  $10^{-12}$  at the MAC/PLS service interface
- ✧ Provide appropriate support for OTN
- ✧ Define re-timed 4-lane 100G PMA to PMA electrical interfaces for chip to chip and chip to module applications
- ✧ Define a 40 Gb/s PHY for operation over at least 40 km of SMF
- ✧ Define a 100 Gb/s PHY for operation up to at least 500 m of SMF
- ✧ Define a 100 Gb/s PHY for operation up to at least 100 m of MMF
- ✧ Define a 100 Gb/s PHY for operation up to at least 20 m of MMF
- Specify optional Energy Efficient Ethernet (EEE) for 40 Gb/s and 100 Gb/s operation over fiber optic cables.
  
- ✧ (approved by 802.3 July 2011)
- (approved by 802.3 November 2012)



# P802.3bm Adopted Timeline

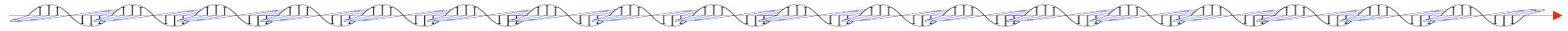




# Task Force Private Area

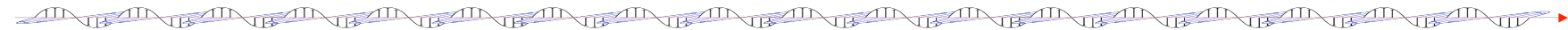
- URL: <http://www.ieee802.org/3/b/private/index.html>
  - Username:
  - Password: To be provided
- Write it down...
- Note - The documents within are posted for your review only, and neither the drafts nor access information should be copied or redistributed to others in violation of document copyrights.



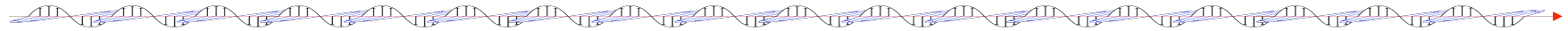


# Activities Since March 2013 Plenary

- May 2013, Victoria, BC
  - 27 Presentations
  - 9 Straw Polls performed to identify areas for work on SMF and CAUI-4
  - 16 Motions held – It was a busy Motion Madness process
  - Authorized generation of D1.0 & started Task Force Review
- Ad hoc meetings (Since March 2013)
  - SMF held 9 ad hoc calls and considered 21 presentations  
<http://www.ieee802.org/3/bm/public/smfadhoc/meetings/index.html>
  - MMF held 9 ad hoc calls and considered 14 presentations  
<http://www.ieee802.org/3/bm/public/mmfadhoc/meetings/index.html>
  - CAUI-4 held 5 ad hoc calls and considered 10 presentations  
<http://www.ieee802.org/3/bm/public/cuadhoc/meetings/index.html>
- A liaison letter from OIF came which included the OIF-28G-VSR and OIF-28G-MR drafts
- Task Force Review of D1.0 complete, comments and proposed resolutions ready for consideration in this meeting.



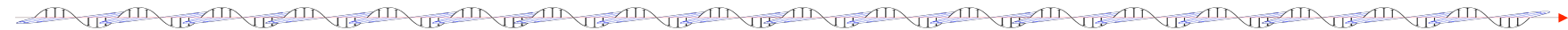




# Goals for this week's meeting

- Review Task Force Operation & Schedule
- Review ad hoc Activities & Reports
- Respond to OIF liaison letter
  - [http://www.ieee802.org/3/bm/public/Jul13/OIF\\_liaison\\_CEI28GVSR\\_and\\_MR\\_28May13.pdf](http://www.ieee802.org/3/bm/public/Jul13/OIF_liaison_CEI28GVSR_and_MR_28May13.pdf)
- Comment Resolution for TF review of D1.0
- Consider Motions & Discussions
  - Consider baseline proposals <sup>(1)</sup>
  - Lay the ground work for the next meeting
- Wrap Up & Future Meeting Discussion

<sup>(1)</sup> Task Force decided to allow an additional meeting for consensus building on SMF





# Meeting Info

We are meeting the following days/times/location

9:00am – 5:00pm Tuesday, **CICG 3** (may run to 7p)

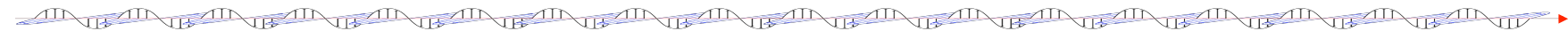
9:00am – 5:00pm Wednesday, **CICG 3** (may run to 7p)

9:00am – 12:00pm Thursday, **CICG 3**

See the website for presentations and minutes

<http://www.ieee802.org/3/bm/public/index.html> (Public Index)

<http://www.ieee802.org/3/bm/public/jul13/index.html> (July Index)





Thank you

