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# **IEEE 802.3 Working Group Opening Plenary 13 November 2006**

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Chair, IEEE 802.3 Working Group  
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# Introductions & Agenda (p.1)

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- Officers
    - 802.3 Chair: Bob Grow (bob.grow@ieee.org)
    - 802.3 Vice Chair: David Law (david\_law@3com.com)
    - 802.3 Exec. Secretary: Steve Carlson (scarlson@esta.org)
    - 802.3 Secretary: Wael Diab (wdiab@broadcom.com)
    - 802.3 Treasurer: Brad Booth (bbooth@ieee.org)
    - P802.3ap Backplane Ethernet: Adam Healey (ahealey@agere.com)
    - P802.3aq 10GMMF: David Cunningham (david\_cunningham@avagotech.com)
    - P802.3ar Congestion Mgt: Kevin Daines (kevin.daines@wwp.com)
    - P802.3as Frame Expansion SG: Kevin Daines (kevin.daines@wwp.com)
    - P802.3at DTE Power via the MDI Enhancements: Mike McCormack (mike\_mccormack@ti.com)
    - 10G EPON SG (proposed P802.3av) Glen Kramer (glen.kramer@tekновus.com)
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# Introductions & Agenda (p.2)

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- Attendee introductions

Each individual participant in IEEE Standards activities shall disclose his or her affiliations when requested. A person who knows, or reasonably should know, that a participant's disclosure is materially incomplete or incorrect should report that fact to the Secretary of the IEEE-SA Standards Board and the appropriate Sponsor(s). [IEEE-SA SB Bylaws, 5.2.1.1]

Timely and adequate notice of any action to create, revise reaffirm, or withdraw a standard, and the establishment of a new consensus body shall be provided to all known directly and materially affected interests. Notice should include a clear and meaningful description of the purpose of the proposed activity and shall identify a readily available source for further information. In addition, the name, affiliation and interest category of each member of the consensus body shall be made available to interested parties upon request.

“Affiliation” refers to the entity that the consensus body member\* represents (which may or may not be that person's employer). If the consensus body member is serving in an individual capacity, then the name of the individual, that person's employer, sponsor and interest category should be available. Contact information is not required. [ANSI Essential Requirements, 2.1]

\*For the purposes of this requirement, “member” is the equivalent of an 802 participant.”

- Approve agenda

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# WG Decorum

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- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (2006 Op Manual 5.3.15)
- Photography or recording by permission only (5.3.14)
- Cell phone ringers off
- Wear your badges at all times in meeting areas

# Published Standards

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- IEEE Std 802.3<sup>TM</sup>-2005 (12 Dec 2005)\*
  - IEEE Std 802.3-2005/Cor 1-2006 (26 Jun 2006)
  - IEEE Std 802.3an-2006 (1 Sep 2006)
  - IEEE Std 802.3aq-2006 (16 Oct 2006)
  - IEEE Std 802.3as-2006 (13 Nov 2006)
  
- IEEE Std 1802.3Rev-2001\*

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

# Reflectors and WG information

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- IEEE 802.3 Working Group ([stds-802-3@ieee.org](mailto:stds-802-3@ieee.org)) is a monitored reflector for announcements of WG business
  - Not a general discussion reflector
  - Subscription limited to members and observers
- IEEE 802 plenary meeting announcements ([stds-802-all@ieee.org](mailto:stds-802-all@ieee.org))
- IEEE 802.3 interim meetings are announced on the 802.3 and relevant TF/SG reflector
- IEEE 802.3 TF/SG reflectors are the location for appropriate project related discussion
- Reflector subscription
  - <http://listserv.ieee.org> or instructions on the 802.3 web pages
- Web site
  - [www.ieee802.org/3](http://www.ieee802.org/3)
  - Access information to private areas is announced by Vice Chair, TF/SG Chairs and in WG announcements

# WG documents for Nov business

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- P802.3ap/D3.1 (Backplane Ethernet)
  - 1<sup>st</sup> recirculation Sponsor ballot comments
- P802.3ar/D1.3 (Congestion Management)
  - Current and modified PAR, Five Criteria and Objectives
- P802.3at (DTE Power Enhancements)
  - PAR & Five Criteria are approved
  - No draft
- P802.3av (10G EPON)
  - PAR & Five Criteria are approved
  - No draft
- CFI material
- Posted maintenance, interpretation and rules requests
- 802.3 minutes
  - Approval of July minutes

## 802.3 Finances

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- Mr. Brad Booth appointed as Treasurer
- See separate report



# Attendance

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- 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 802.3 potential voter agenda item
  - Maintain valid contact information (update in “red” book)
  - Participate in 2 of last 3 WG ballots
- Attendance books
  - Sign in each day, only for that day, only for yourself, and not for any other Working Group (no parallel sign-ins)
  - Two books
    - Blue -- members and observers (i.e., signed in during last year)
    - Red -- new attendees & update contact information
- Review membership lists – potential voters

# 802.3 Members (voters) p.1

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Abaye, Ali	Beia, Christian	Busse, Robert
Abbott, John	*Beliaev, Alexei	Cain, Jeff
Abler, Joe	Bennett, Mike	Carlson, Steve
*Adriaennsens, Luc	*Bergmann, Ernest E.	Chalupsky, David
Ahmed, Taufique	Bhoja, Sudeep	Chang, Frank
Altman, Michael	*Bhugra, Harmeet	Chang, Luke
Anderson, Stephen D.	*Bonnamy, Jean-Michel	Chin, David
*Aronson, Lewis	Booth, Brad	Chopra, Rahul
Babanezhad, Joseph N	Braun, Ralf-Peter	Claseman, George
Barnette, Jim	Brearley, Dave	Cobb, Terry
Barrass, Hugh	Brown, Kevin	Cohen, Larry
Barrick, Scott	Brown, Matt	Collum, James
Baumer, Howard	Brownlee, Phillip	Crepin, J. Francois
Beaudoin, Denis	Brunn, Brian	Cunningham, David
Beck, Michaël	Brunner, Robert	Daines, Kevin

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## 802.3 Members (voters) p.2

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Dallesasse, John  
Dalmia, Kamal  
D'Ambrosia, John  
Darshan, Yair  
Dawe, Piers  
Delveaux, Bill  
DeNicholas, Joe  
DeSanti, Claudio  
Di Minico, Chris  
Diab, Wael  
Dineen, Thomas  
Dinh, Thuyen  
Dove, Dan  
Dudek, Mike  
Dupuis, Joseph E.

Eisler, George  
\*Esmailian, Tooraj  
Ewen, John F.  
Feldman, Daniel  
\*Feng, Feifei (Felix)  
Flatman, Alan  
Frazier, Howard  
Frosch, Richard  
Ganga, Ilango S.  
\*Gao, Xiao Ming  
\*Garner, Geoffrey M  
\*George, John  
Ghiasi, Ali  
Ghoshal, Sajol  
Goergen, Joel

Grow, Robert M.  
Gyurek, Russ  
Hammond, Bernie  
Hatab, Ziad  
Healey, Adam  
Hopwood, Keith  
Hurwitz, Walter K.  
\*Jaeger, John  
Jetzt, John  
Jimenez, Andrew C.  
\*Johas Teener, Michael  
D.  
Jones, Chad  
Jones, William W.  
Jørgensen, Thomas K.

# 802.3 Members (voters) p.3

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Jover, Juan

Kaku, Shinkyō

Kasturia, Sanjay

Katzenberg, Boris

Kawashimo, Tatsuya

Kim, Yong

\*King, Jonathan

Kish, Paul

Ko, Mike

Koeman, Henriecus

Koenen, David J.

Kolesar, Paul

Koonce, Derek

Kramer, Glen

Krellner, Jan

\*Kundu, Aniruddha

Lackner, Hans

Landry, D. Matthew

\*Langston, Daun

Lapak, Jeff

Lari, Ferdinando

Law, David

Lee, Dong-Soo

\*Lerer, Michael

Lertniphonphun,  
Worayot

Lindsay, Tom

Lingle, Jr., Robert

Lynch, Jeffrey

Lynskey, Eric R.

Marris, Arthur

Mathey, Thomas

\*McCarthy, Frank

McClellan, Brett

McConnell, Mike

McCormack, Michael S

McVey, James D.

Mei, Richard Y.

Mellitz, Richard

\*Mezer, Amir

Michaud, Sean

Mick, Colin

\*Monson, John

Moore, Charles

Mueller, Wayne A.

## 802.3 Members (voters) p.4

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Mukhopadhyay,  
Suvhasis (Asis)

Muller, Shimon

Nishimura, Shinji

Nordin, Ron

Noseworthy, Bob

Obara, Satoshi

Oganessyan, Gourgen

Oulundsen, III, George

Palkert, Tom

\*Panos, Bill

Parsons, Glenn

Patoka, Martin

\*Peeters Weem, Jan P.

Peker, Arkadiy

Pepeljugoski, Petar

Picard, John

\*Piede, David

\*Pimpinella, Rick

Plunkett, Timothy R.

Popescu, Petre

Powell, Scott R.

Rabinovich, Rick

Radhakrishnan, Prakash

Rao, Sailesh K.

\*Rausch, Dan

Rautenberg, Peter

Reintjes, Maurice

Robbins, Steve

Rybinski, Valerie

\*Ryu, Hyunsurk (Eric)

Sastry, Ramesh

Savi, Olindo

Sawyer, T. Shannon

Schindler, Fred

Schube, Scott

Schwarzenberg, David

Sendelbach, Lee

\*Shanbhag, Abhijit

Shorthill, Larry

Smith, Andrew

Spagna, Fulvio

Sparrowhawk, Bryan

Stanford, Clay

Swanson, Steve

# 802.3 Members (voters) p.4

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Swenson, Norman	van Doorn, Schelto
Szczepanek, Andre	*VanSchyndel, Andre
Telang, Vivek	*Von Herzen, Brian
Tellado, Jose	Wang, Chenxi
Thaler, Pat	Weiner, Nick
Thompson, Geoffrey	Woodruff, Bill
Thon, Lars E.	*Yagil, Ariel
Tomaszewski, Peter	Yang, Yinglin (Frank)
Toyoda, Hidehiro	Yoon, Bin Yeong
Trowbridge, Stephen J.	Zimmerman, George
Twu, Bor-long	
Ungerboeck, Gottfried	
Vaden, Sterling A.	
Valliappan, Magesh	
*Van Bavel, Nicholas	

**\*in peril of losing membership**

# Potential Members (voters) p.1

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◆Alping, Arne  
Anderson, Doug  
Balasubramonian,  
Venugopal  
Battaglia, Jim  
Belopolsky, Yakov  
Chadha, Mandeep  
Charny, Ben  
Conroy, Keith  
●Daido, Fumio  
Deutsch, Meir  
◆Dhamejani, Suveer  
◆Duelk, Marcus  
Dwelle, David  
Effenberger, Frank J

Fallahi, Siavash  
Galindo, Juan A.  
Golden, Glenn  
Gray, Carl Thomas  
◆Hajduczenia, Marek  
Hirth, Ryan  
Ho, Ricky Keang-Po  
Huang, Ching-Chao  
Huynh, Thong  
●Jiang, Wenbin  
◆Kimura, Mitsunobu  
Kondapalli, Raghu  
Langner, Paul  
Liu, Cathy  
Liu, Zhenyu

●Mandin, Jeff  
Merel, Roger  
Moorwood, Andy  
Morita, Itsuro  
●Mukojima, Toshiaki  
Murata, Hiroshi  
Nabili, Babak (Bobby)  
Nielsen, Allan  
O'Hara, Steven  
●Otaka, Akihiro  
Parker, Tim  
Patel, Gautam  
Perzow, John D.  
Puleo, Mario  
Quilici, Jim

# Potential Members (voters) p.2

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◆Remein, Duane  
◆Saeki, Naoto  
Savara, Raj  
◆Seno, Shoichiro  
Shariff, Masood  
Stetter, Claus  
◆Takahashi, Akira  
Takahashi, Seigo  
●Takizawa, Motoyuki  
◆Tanaka, Keiji  
●Tatsuta, Tsutomu  
Thomas, Stephen  
Tolley, Bruce  
Tsukahara, Tomo  
(Tom)

Umnov, Alexander  
◆Vetteth, Anoop  
Wada, Hirotaka  
Wallace, Dean  
Walling, Ing. J.-H (Jo)  
◆Yamashita, Hajime  
Zivny, Pavel

◆ *Requested to become member (Monday)*  
● *Requested to become member (Thursday)*



# Interim TF & SG meetings held

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- Knoxville, TN, USA 18-21 Sep 2006
  - P802.3ap, Backplane Ethernet
  - P802.3at, DTE Power Enhancements
  - P802.3av, 10G EPON
  - Higher Speed SG
  - Maintenance

# 802.3 ballots since July

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- Working Group Ballots:
  - Interpretation 1-07/06, D1.0, initial
  - Interpretation 1-07/06, D1.1, recirculation
- Sponsor Ballots:
  - P802.3ap/D3.0, initial
  - P802.3ap/D3.1, recirculation
  - P802.3as/D3.3, recirculation
  - 1802.1 reaffirmation, initial

# IEEE-SA Standards Board Bylaws on Patents in Standards

## 6. Patents

IEEE standards may include the known use of essential patents and patent applications provided the IEEE receives assurance from the patent holder or applicant with respect to patents whose infringement is, or in the case of patent applications, potential future infringement the applicant asserts will be, unavoidable in a compliant implementation of either mandatory or optional portions of the standard [essential patents]. This assurance shall be provided without coercion. The patent holder or applicant should provide this assurance as soon as reasonably feasible in the standards development process. This assurance shall be provided no later than the approval of the standard (or reaffirmation when a patent or patent application becomes known after initial approval of the standard). This assurance shall be either:

- a) A general disclaimer to the effect that the patentee will not enforce any of its present or future patent(s) whose use would be required to implement either mandatory or optional portions of the proposed IEEE standard against any person or entity complying with the standard; or
- b) A statement that a license for such implementation will be made available without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination.

This assurance is irrevocable once submitted and accepted and shall apply, at a minimum, from the date of the standard's approval to the date of the standard's withdrawal.

# Inappropriate Topics for IEEE WG Meetings

- Don't discuss the validity/essentiality of patents/patent claims
- Don't discuss the cost of specific patent use
- Don't discuss licensing terms or conditions
- Don't discuss product pricing, territorial restrictions, or market share
- Don't discuss ongoing litigation or threatened litigation
- Don't be silent if inappropriate topics are discussed... do formally object.

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at [patcom@ieee.org](mailto:patcom@ieee.org) or visit <http://standards.ieee.org/board/pat/index.html>

This slide set is available at  
<http://standards.ieee.org/board/pat/pat-slideset.ppt>



# The WG is advised

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- The IEEE's patent policy is consistent with the ANSI patent policy and is described in Clause 6 of the *IEEE-SA Standards Board Bylaws*;
- Early disclosure of patents which may be essential for the use of standards under development is encouraged;
- Disclosures made of such patents may not be exhaustive of all patents that may be essential for the use of standards under development, and that neither the IEEE, the WG, nor the WG Chairman ensure the accuracy or completeness of any disclosure or whether any disclosure is of a patent that, in fact, may be essential for the use of standards under development.

# June Standards Board (p. 1)

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- Standards board
  - All LMSC RevCom and NesCom projects approved
  - Patent policy changes approved for ballot
  - Open meeting on 802.20
  - Executive sessions
  - Electronic voting rules exceptions still in process
  - Scope and purpose of PAR and document alignment ongoing
  - CAG to be focusing on international strategy
- ProCom recommendations
  - Annual financial reporting changes – approved
  - Affiliation changes – approved
  - Dominance changes -- approved
  - Location of official P&P – approved
  - Dominance/Openness/Affiliation ad hoc to continue work – address Sponsor ballot process and Code of Ethics changes

# June Standards Board (p. 2)

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- ProCom discussion items
  - Ad hocs on conformance and ambiguous use of “working group” formed
  - Post meeting – review of proposed 2007 style manual
- NesCom discussion items
  - Revision of PAR forms, instructions and conventions for 2007
  - New “adoption of standard” project defined
  - Health and safety items of PAR form
- RevCom discussion items
  - Recommend changes to Style Manual
- PatCom
  - Changes to patent policy approved for higher committee action
    - Bylaws
    - Operations Manual
    - LOA form

# LMSC EC Report p.1

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- Anonymous letter investigation is complete will be reviewed by IEEE BoD 19 November
- New Chair of 802.20 introduced, Vice Chair positions remain vacant, web site and reflector active, appeals are ongoing
- LMSC oversight and SASB oversight committees have been appointed
- 802 TF – continuing business, EPO access, myBallot/myProject, Get IEEE 802 budget
- Nothing of substance through the 802 ombudsman, but remains available for confidential communication channel (802ombudsman@ieee.org)
- The Get IEEE 802 program remains in financial jeopardy.



# LMSC EC Report p.2

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- SC6 report – No US TAG meeting this week, G. Thompson will be the 802 contact for the future.
- China liaison – If any WGs have issues bring them to the liaison's (Marks) attention. IEEE has opened an office in Beijing.
- LMSC P&P
  - Our P&P were not approved by AudCom, proposed changes generated in response to comments
  - P&P updates will be limited by no more than annual review by AudCom
  - WG Voting procedures (driven by 802.11) fell between the cracks

# LMSC EC Report p.3

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- 802 architecture group
  - Wireless architecture subgroup will be dissolved
  - Regular 802 architecture meeting will not be held
  - Use of 802.1 joint technical plenary encouraged
- Meeting planner contract will go out to RFQ to six planners
  - Full service required
  - Additions to RFQ list via EC members
- Network services contract RFQ basically agreed with IEEE, but some changes requested
  - This meeting covered
  - Work this week to get agreement for bidding before March

# LMSC EC Report p.4

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- Tutorials
  - Mon. 6:00 – 802.11s WLAN Mesh Networking
  - Mon. 8:00 – 802.16 and IMT Advanced
  - Tue. 6:00 – 802.15.5 WPAN Mesh
  - Tue. 8:30 – Overview of CALM-related projects and standards activities in Europe and their synergies with IEEE 802 efforts

# LMSC Chair's Meetings

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- Tuesday 12-1pm Coexistence assurance document policy (Nikolich)
- Wed 9-10am Get IEEE 802 budget review (Hawkins)
- Wed 1-3:00pm 802 Task Force (Nikolich)
- Wed 3-4pm Affiliation and attendance SW (Rigsbee)
- Wed 4-5pm Network Services Contract (Rigsbee)
- Wed 5-6pm Open office hours (Nikolich, Mills, Kenney)

# Project Authorization Requests

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- P802.1AB Stream reservation protocol
- P802.1Qav Time sensitive streams
- P802.1Qaw Management of data driven and data dependent connectivity faults
- P802.15.4d 950 MHz PHY for Japan
- P802.16m Advanced air interface

# Continuing Agenda

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- Liaison Reports
- 802.3 State of the Standard (Mr. Law)
- 802.3 Operating Rules (Mr. Law)
- Task Force & Study Group Reports
  - Interpretations (Mr. Law)
  - Maintenance (Mr. Law)
  - 802.3ap (Mr. Healey)
  - 802.3aq (Mr. Cunningham)
  - 802.3ar (Mr. Daines)
  - 802.3as (Mr. Daines)
  - 802.3at (Mr. McCormack)
  - 802.3av (Mr. Krammer)
  - Higher Speed SG (Mr. D'Ambrosia)
  - Call for Interest (Mr. Bennett)