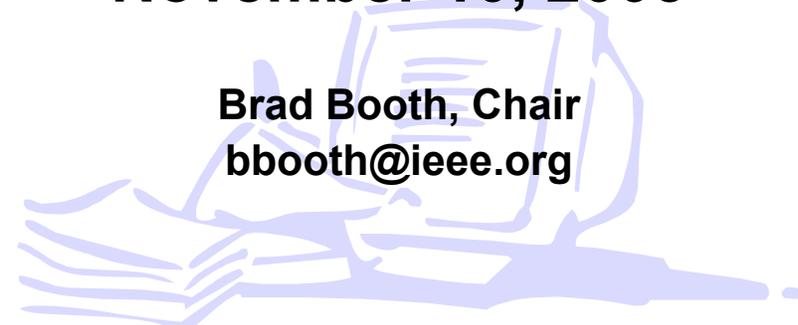


IEEE 802.3 10GBASE-T

Study Group

Opening Plenary Meeting Report

Albuquerque, NM
November 10, 2003



Brad Booth, Chair
bbooth@ieee.org

Reflector and Web

- To subscribe to any of the 10GBASE-T reflectors send an email to:

majordomo@ieee.org

with the following in the body of the message:

[subscribe stds-802-3-10GBT <your email address>](#)

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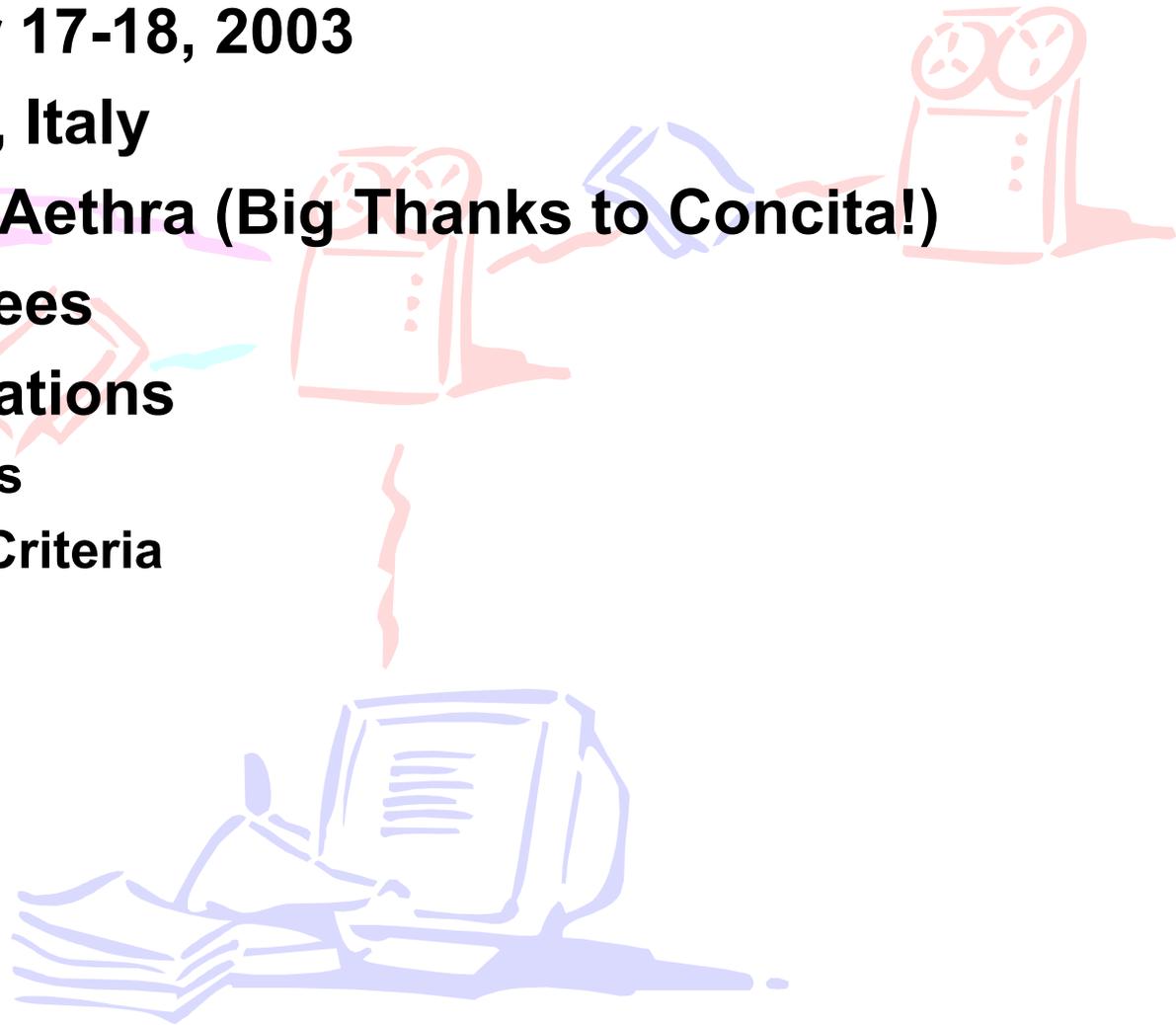
- 10GBASE-T Study Group web page URL:

<http://www.ieee802.org/3/10GBT/>



Interim Meeting

- **September 17-18, 2003**
- **Portonovo, Italy**
- **Hosted by Aethra (Big Thanks to Concita!)**
- **~40 attendees**
- **11 presentations**
 - Objectives
 - PAR & 5 Criteria



Results from Interim

- **We have a draft PAR**
 - http://www.ieee802.org/3/10GBT/public/sep03/par_1_0903.pdf
- **We have a draft 5 Criteria**
 - http://www.ieee802.org/3/10GBT/public/sep03/5Criteria_1_0903.pdf
- **We have a set of Objectives**
 - http://www.ieee802.org/3/10GBT/public/sep03/objectives_1_0903.pdf

Objectives

- **Preserve the 802.3/Ethernet frame format at the MAC Client service interface**
- **Preserve min. and max. frame size of current 802.3 Std.**
- **Support full duplex operation only**
- **Support star-wired local area networks using point-to-point links and structured cabling topologies**
- **Support a speed of 10.000 Gb/s at the MAC/PLS service interface**
- **Select copper media from ISO/IEC 11801:2002, with any appropriate augmentation to be developed through work of 802.3 in conjunction with SC25/WG3**
- **Support Clause 28 auto-negotiation**
- **Support coexistence with 802.3af**
- **To not support 802.3ah (EFM) OAM unidirectional operation**
- **Meet CISPR/FCC Class A**

Objectives

- **Support operation over 4-connector structured 4-pair, twisted-pair copper cabling for all supported distances and Classes**
- **Define a single 10 Gb/s PHY that would support links of:**
 - **At least 100 m on four-pair Class F balanced copper cabling**
 - **At least 55 m to 100 m on four-pair Class E balanced copper cabling**
- **Support a BER of 10^{-12} on all supported distances and Classes**



Plans for the Week

- **10GBASE-T Tutorial**
 - Tonight, 6:30pm in Ballroom A
- **Address comments on PAR, 5 Criteria and Objectives**
 - Primarily focused on clarification
 - PAR Scope
 - Compatibility with 802.1
- **Have 6 presentations**
- **Formulate responses to ISO/IEC and TIA liaison letters**
- **Seek 802.3 approval of PAR, 5 Criteria & Objectives**

