

To: T10 Technical Committee  
From: Rob Elliott, HP (elliott@hp.com)  
Date: 27 May 2005  
Subject: 05-196r3 SAS-2 Physical WG agenda May 25-26

**Hotel**

**Hilton Garden Inn**

7979 Willow Chase Boulevard, Houston, Texas, United States 77070  
Tel: 1-832-912-1000 Fax: 1-832-912-1025  
Tel: 1-877-STAYHGI (1-877-782-9444)  
<http://www.houstonnorthwest.gardeninn.com>

Group Name: HP T10 Ad Hoc 6G  
Room: \$99.00  
Reservation Cut off Date: May 18, 2005  
Extra Person Charge: \$10.00

All reservations must be guaranteed to a credit card or to company (if approved for billing). Those reservations not canceled by 6:00PM (24 hours prior to arrival) will be billed accordingly.

**Driving Directions**

Exit Bush IAH Airport on JFK Blvd (3.4 miles)  
Turn right on Beltway 8/Sam Houston Parkway (westbound, toward I-45)(4.5 miles)  
Sam Houston Parkway becomes Sam Houston Tollway (\$1.25 for toll, or use the feeder/frontage road) (5.7 miles)  
Take Highway 249 North  
Exit F.M. 1960  
Proceed north on Highway 249 feeder/frontage road  
Hilton Garden Inn is on the right (East) behind Sam's Club across the street from Methodist Hospital

**References**

<http://www.ieee802.org/3> - **Ethernet**  
<http://www.ieee802.org/3/ab> - Gigabit Ethernet over Cat-5 (1000BASE-T)  
<http://www.ieee802.org/3/ae> - 10 Gigabit Ethernet (10GBASE-SR, -SW, -LR, -LW, -ER, -EW, -LX4)  
<http://www.ieee802.org/3/ak> - Gigabit Ethernet over InfiniBand cables (10GBASE-CX4)  
<http://www.ieee802.org/3/an> - 10 Gigabit Ethernet over Cat-6 (10GBASE-T)  
<http://www.ieee802.org/3/ap> - Backplane Ethernet (1000BASE-KX, 10GBASE-KX4, -KR)  
<http://www.ieee802.org/3/aq> - 10 Gigabit Ethernet over long reach multimode fiber (10GBASE-LRM)

<http://www.oiforum.com/public/link-layer.html> - **Optical Interconnect Forum (OIF) Common Electrical I/O (CEI) Physical and Link Layer (PLL) Working Group**. See OIF-CEI-6G-LR and OIF-CEI-11G-LR.

<http://www.t11.org> - INCITS T11 **Fibre Channel**. See FC-PI-2, FC-PI-3, FC-PI-4, and FC-MJSQ.  
<http://www.rapidio.org> - **Rapid I/O Trade Association**  
<http://www.stateye.org> - **StatEye**  
<http://www.sata-io.org> - **Serial ATA International Organization**  
<http://www.sffcommittee.org> - **SFF Committee**

<http://www.eecg.toronto.edu/~johns/nobots/courses/ece1392/equalization2.pdf> - Prof. David Johns (Univ Toronto) Slides on Equalization, including DFE  
[http://bwrc.eecs.berkeley.edu/Courses/EE290C\\_S04/](http://bwrc.eecs.berkeley.edu/Courses/EE290C_S04/) - Borivoje Nikolic Jared Zerbe course on high-speed electrical interfaces, including DFE background  
<http://www.edn.com/article/CA468426.html> and <http://www.sigcon.com/Pubs/edn/ThePerfectProbe.htm> - Howard Johnson article on digital sampling scope logic in a receiver  
[http://www.xilinx.com/publications/xcellonline/xcell\\_53/xc\\_equalizer53.htm](http://www.xilinx.com/publications/xcellonline/xcell_53/xc_equalizer53.htm) - Howard Johnson article on Xilinx transceivers with DFE

Table 1 — Agenda for SAS-2 physical WG - Wednesday 25 May 2005

| Time  | Topic  |
|---|--|
| <b>Background on other high-speed serial technologies</b> |  |
| 9:00 am   | 05-219r0 Survey of high-speed serial technologies [Yuriy Greshishev, PMC-Sierra]   |
| 10:00 am  | 05-215r0 IEEE 802.3ab (Gigabit Ethernet: 1000BASE-T) and IEEE 802.3an (10 Gigabit Ethernet: 10GBASE-T) [Nick Van Bavel, Vitesse] |
| 10:30 am  | 05-202r0 IEEE 802.3aq Overview (10 Gigabit Ethernet on FDDI-grade MMF cable: 10GBASE-LRM) [Kevin Witt, Vitesse]                  |
| 11:00 am  | 05-214r1 IEEE 802.3ap (Backplane Ethernet) 1 Gbps/10 Gbps [Ali Ghiasi, Broadcom]   |
| 11:45 am  | Lunch  |
| 12:45 pm  | 05-208r0 INCITS T11 Fibre Channel Signal Specification Architecture - application to higher speeds [Bill Ham, HP]                |
| 1:45 pm   | 05-200r0 Overview of OIF CEI [Mike Lerer, Rapid Prototypes]<br>05-210r0 OIF-CEI-6G overview [Yuriy Greshishev, PMC-Sierra]       |
| 3:45 pm   | 05-199r0 Next Gen Serial Rapid I/O (SRIO) PHY Preliminary 5.0/6.25 Gbps Electrical Spec Status [Mike Lerer, Rapid Prototypes]    |
| <b>Tutorials</b>  |  |
| 4:30 pm   | 05-198r0 Channel Compliance Testing Utilizing Novel Statistical Eye Methodology (StatEye) [Harvey Newman, Infineon]              |
| 6:00 pm   | Adjourn  |

Table 2 — Agenda for SAS-2 physical WG - Thursday 26 May 2005

| Time                            | Topic  |
|---------------------------------|--|
| <b>6 Gbps test chip results</b> |  |
| 8:00 am                         | 05-204r0 SAS-2 6Gbps Test Results [Kevin Witt, Vitesse]  |
| 8:30 am                         | 05-211r0 PMC-Sierra QuadPHY 6G device [Yuriy Greshishev, PMC-Sierra]   |
| 9:15 am                         | 05-221r0 6G Data over Legacy Backplanes [Mike Jenkins, LSI Logic]  |
| 10:00 am                        | 05-217r0 GbX Reference Backplane for OIF 6G [Galen Fromm, Molex]<br>05-216r0 10 Gbps Data Transmission in FR408 and Nelco 4000-13SI GbX Reference Backplane [Galen Fromm, Molex] |
| <b>Proposals</b>                |  |
| 10:45 am                        | 05-220r0 SAS 6 Gbps proposal based on OIF CEI 6G [Mike Jenkins, LSI Logic]   |
| 11:45 am                        | 05-204r0 Towards a SAS-2 Physical Layer Specification [Kevin Witt, Vitesse]  |
| 12:00 pm                        | Lunch  |
| <b>Considerations</b>           |  |
| 1:00 pm                         | 05-218r0 Molex iPass 6G (Mini SAS 4i/4x connector) Electrical Testing [Galen Fromm, Molex]   |
| 2:00 pm                         | 05-212r0 SAS-2 System design considerations [Barry Olawsky and Rob Elliott, HP]  |
| 3:00 pm                         | 05-209r0 SAS OOB challenges: scale or not to scale [Yuriy Greshishev and Bill Lye, PMC-Sierra]   |
| 3:30 pm                         | 05-222r0 Overview of Signaling & Equalization Methods Considered in OIF and IEEE 802.3ap [Joe Caroselli and Mike Jenkins, LSI Logic]   |
| 5:00 pm                         | Adjourn  |

The map is not at all to scale, but shows the restaurants and major stores near the hotel.

