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# **IEEE P802.3bp Task Force Closing Report**

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**IEEE 802.3 Ethernet Working Group  
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Orlando, FL**

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# Progress this week

- Met Tuesday and Wednesday morning
- ~40 people in the room
- Heard 12 presentations from link segment and EMC ad hocs
- Link segment (testing 1-pair CAT6A-like link segment)
  - Analyzed IL for 23-32 AWG stranded wire
  - 26-27 AWG reported as desirable by survey respondents
  - Analyzed IL as a function of temperature at 15 and 40m up to 125C
  - Further test fixture reports including UNH-IOL correlation
  - Focus on real-work topologies as reported in January by BMW
  - Presentations on industrial cable and EMC

# Progress this week

- EMC ad hoc
  - Common mode noise on automotive data line test results from Daimler
    - An excellent start---but we need much more data from automotive OEMS!
    - Simulation work on EMC susceptibility
  - EMC road map
    - Color-coded
      - Green (OK, have information)
      - Yellow (need information, possible problem)
      - Red (need information, problem)
      - Doing better—less red than before, but still too much yellow!

# Progress this week

- Current work is on 1-pair UTP “CAT6A-like” channel
- May 2013-Victoria BC Interim
  - Refine customer requirements for
    - Electro-Magnetic Emissions and Susceptibility
    - Length, insertion loss
    - 26 AWG stranded (target)
    - 125 C (target)
  - BMW has committed to gathering this information from the OEMS for May
- July 2013-Geneva Plenary
  - Determine if there is a modulation scheme on 1-pair UTP that will meet the performance target
  - If not, move to 1-pair STP investigation and 2-pair UTP investigation
  - STP will likely solve EMC problems, but is not the optimum customer solution
  - May have a mix of UTP and STP deployments in vehicle—this is done now

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**Thank you!**