



A TMetrix "Day with the expert" Seminar  
Presented in person by a Real, Live Expert !



## "Troubleshooting embedded circuit designs using modern oscilloscopes"

- |               |           |                      |      |
|---------------|-----------|----------------------|------|
| • Mississauga | Tuesday   | May 17 <sup>th</sup> | 2011 |
| • Ottawa      | Wednesday | May 18 <sup>th</sup> | 2011 |
| • Montreal    | Thursday  | May 19 <sup>th</sup> | 2011 |

From 10am until 12 noon.

### What will be covered

Modern embedded designs frequently call for debugging commands that are transmitted using serial data busses between devices on the board or between boards.

Understanding the tools available and how they work is essential to reduce debug time.

This seminar discusses the standard and tools and includes many tips and techniques for dealing with common challenges.

- Overview of Serial Standards used at a board level.
- I2C/SPI protocol overview,
- Decoding, triggering techniques and a Practical Demonstration for I2C, and SPI
- Higher speed busses and their demands with a particular emphasis on PCI Express Gen1 through 3 and USB 3.0.
- Protocol-aware bit error rate testing.
- CAN, LIN, and Flexray Protocol overview.
- Decoding and Triggering techniques for Automotive Busses including a practical demonstration.
- Multibus Decoding
- Incorporating Mixed Signal Testing in debugging Embedded Designs.

### Who should attend

Creators of products that use high-speed or low-speed serial data technologies will learn at this event. It is most especially aimed at people concerned about serial data timing and decoding, embedded clocks, and differential signaling,

### The Presenter



**Mike Hertz** has been an Applications Engineer with LeCroy Corporation for ten years. Prior to LeCroy Mike was an AE with Agilent Technologies and Hewlett-Packard. Mike received his B.S.E.E. from Iowa State University and an M.S.E.E. from the University of Arizona.

Mike has published more than 40 papers about test and measurement techniques and holds seven patents in oscilloscope measurement design.

The LeCroy Corporation manufactures the oscilloscopes and protocol analyzers that are used by the world's best design engineers.

This event is sponsored by ACA  
TMetrix.

There is no cost to registered  
attendees.

### To register

Please go to

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