

A TMetrix “Day with the Expert” Technical Seminar

“Getting the Power Right in Your Lab”

“All you need to know about DC lab power supplies in less than an hour”

Dates and Times

- Mississauga Thursday October 20th 2:30 pm to 3:45 pm



At the Eptech show !

What will be covered?

Since nearly every design engineer has a DC lab power supply on their bench wouldn't it be wise to spend an hour learning about how they work, what application issues can occur and how to get the best use from them?

This seminar covers common challenges that are experienced when people use Lab Power Supplies. **This knowledge could save you hours of trouble shooting in your lab.**

Topics will include:

- A basic block diagram of how a linear vs. switching lab power supply works. Basic performance characteristics.
- Modes of operation and how they work – current limiting, remote sensing, programmable rise and fall times.
- Common problems using a DC supply to drive switching loads: audio amplifiers, DC/DC converters, inductive loads such as solenoids and motors; response time to load changes: inrush current, back EMF, damping.
- Using lab power supplies to power sensors – especially when these are distant from the source.
- The “Analog bandwidth” of a DC supply. Single-quadrant vs. 2- and 4- quadrant power supplies.
- What to expect when you move your product from using a lab-grade supply to a low-cost OEM DC supply.
- “Green” (PFC) power supplies and why you should care (or not). Power supplies and regulatory approval (e.g. CSA, UL and CE).
- Key issues when integrating systems (such as ATE systems), thermal management in ATE systems design.

This event is sponsored by ACA TMetrix. There is no cost to registered attendees.

Please register at

www.TMetrix.com

under “seminars”

Who should attend?

This is a technical education session, not a sales pitch. Designers or Test Engineers who use **any brand** of DC lab power supply will benefit from this session.

Our expert

Our presenter, George Scherma has over 25 years experience with lab equipment, instrumentation and helping users overcome problems and misconceptions. He currently works for TDK-Lambda Americas' High Power Division and has experience from IOtech and National Instruments. George holds a BSEE and is an expert in the electro-mechanical lab test environment.

