

JANUARY  
13-14, 2015

# WORLD-CLASS EMC/EMI TRAINING COMES TO CHICAGO

***Electronic Product Design & Retrofit for EMC***  
***Taught by Lee Hill, MSEE, SILENT Solutions LLC***  
***Member of Adjunct Faculty, Worcester Polytechnic Institute***

**January 13 + 14, 2015**

**2 full days of interactive and intensive classroom  
instruction and hardware demonstrations**

ELECTRONIC INSTRUMENT ASSOCIATES

Web: <http://www.electronicinstrument.com>



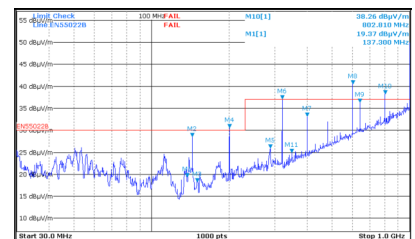
Are you frustrated with high frequency noise problems? Tired of failing radiated emissions requirements at EMI test labs? Looking for a logical, systematic way of analyzing and solving electrical noise problems that is based on the latest academic research? Sign up now for North America's premier EMC design & troubleshooting educational event!

This class presents a unique blend of applications, hardware demonstrations, and supporting theory to help design engineers and EMC engineers master key electrical noise reduction techniques. The underlying theory and techniques are equally applicable during

## After attending this class, you will be able to:

- Systematically analyze and solve noise problems by using the noise model to create and analyze a noise circuit schematic
- Minimize radiated EMI by designing low inductance signal interconnects
- Understand ground loops, how to represent them in an equivalent circuit, and how to eliminate them
- Clearly identify and manage the three different types of "ground" in schematics and physical circuits
- Identify "accidental antennas" in new designs
- Understand and measure common-mode current in emissions and immunity problems
- Improve the quality of sensor and instrumentation signals in the presence of noise

**SILENT** provides  
**EMC Education Worldwide**  
through **Worcester Polytechnic Institute (WPI)**, and  
**University of Oxford**



Course content is identical to that which is presented annually at the [University of Oxford, England](#). [Download the course syllabus](#).

**SILENT**

Solutions for your noisy world.

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## TESTIMONIALS

*"Lee effectively penetrates those impenetrable greek equations with simple insights, and de-funking many common EMC myths – converting magic to practice."*

*"Good teacher, good tech chops, good passion, loved it!"*

*"Hardware Demos were very, very helpful"*

*"Everything you didn't learn about EMC in college but wish you had! Never heard such a complex subject spoken about in such a clear way"*

*"Give him longer. Would have stayed 2 more hours. Wonderful summary to Global University. Very Clear. Clearly in control of his material"*

*"If your company designs electrical products, you need your engineers to take this course. For all those EMC topics and solutions never covered in school, this course hits them all"*

SILENT Solutions LLC,  
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(603) 578-1842  
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## ABOUT THE COURSE INSTRUCTOR:



**Lee Hill** is Founding Partner of SILENT, an independent EMC and RF design firm established in 1992 that specializes in EMC and RF design, troubleshooting, and training. Lee received his MSEE from the University of Missouri-Rolla EMC Laboratory, (now MS&T) [emclab.mst.edu](http://emclab.mst.edu). He is a member of the adjunct faculty at Worcester Polytechnic Institute (WPI), and an EMC course instructor for the University of Oxford (England) and the IEEE EMC Society's Global University. He is a past EMC instructor for UC Berkeley, Agilent, and Hewlett Packard.

With over 25 years of EMC design and troubleshooting experience, Lee consults and teaches worldwide, and has presented classes in Taiwan, Singapore, Mexico, Norway, Canada, South Korea, France, and United Kingdom. Lee is a past member of the IEEE EMC Society's Board of Directors (2004-2007).

## TO REGISTER:

### ONLINE:

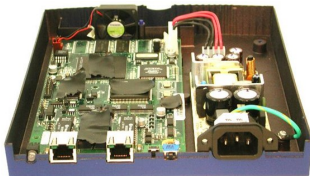
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OR

EMAIL YOUR CONTACT INFORMATION TO:  
COURSES@SILENT-SOLUTIONS.COM

OR

CALL SILENT SOLUTIONS AT  
+1 603-578-1842



## CLASS LOCATION:

HOLIDAY INN CHICAGO WEST-ITASCA  
1860 WEST IRVING PARK ROAD  
ITASCA, ILLINOIS 60143

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