



The Pacific Northwest Chapter of Designers Council presents  
**The Northwest Designers Symposium**  
Friday - September 17, 2010

**Agenda:**

8:00 AM - 8:30 AM Registration, Networking and Snacks

9:00 AM- Noon ***Making the Most of Your Design Time***

Noon – 1:00 PM Lunch

1:00 PM - 5:00 PM ***Designing Complex Boards***

**Location:** Tektronix Conference Center in the East Training room  
Building 38, 3025 SW Zworkin Ave, Beaverton, OR 97005

**Who Should Attend?**

The Designers Symposium will benefit not only the board designer, but also those involved in the electronics manufacturing supply chain. Whether you are in engineering, manufacturing, fabrication or design, come learn how successful products result from successful design. Stay in tune with the latest technology and continue *your* professional development.

**Making the Most of Your Design Time .... ½ day [Morning session]**

Layout time is often one of the last things to be considered in the project cycle, so designers need to manage their time wisely in order to get the job done on time. This course will show ways to do that through many sides of the design process. We will discuss streamlining the input and output processes, fully utilizing the software including using macros and scripts; optimizing the design preparation and layout, and making the checking and saving processes more manageable.

**Designing Complex Boards ..... ½ day [Afternoon session]**

When beginning a complex board design, we are faced with a unique set of needs and questions. Where do I start the process? How do I organize the information on all those schematic pages? What is the best way for these parts and sections to fit together electronically? What is a good stackup for this particular board? How do I place everything and route it so that it all fits within the board outline and has good signal integrity and no EMI problems? This presentation will address these kinds of questions and more with some laws of physics, information about why some practices might work better than others, and lots of examples.



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“Continuing development of knowledge in the expanding world of electronics is crucial for professional proficiency. In general, more education means more money, greater employment options and better job security. IPC workshops are a learning forum which combines education at an affordable price while also providing opportunities to network with your colleagues.”

**Donna Green, SR. Designer and President PNW Chapter**



To all our event sponsors:

**Polar Instruments**

**Protingent Staffing**

**Prototron Circuits**

**Tektronix**

“Getting to see how others solve the problems we each face in our work every day broadens our ability to reach successful solutions faster. Being able to attend workshops and seminars exposes us to these other avenues of thought and helps us become more valuable, not only to our present employer, but future ones, also.”

**Ken Lake, SR. Designer and Treasurer of PNW Chapter**



**REGISTRATION FORM PNW DESIGNERS COUNCIL LEARNING SYMPOSIUM**  
September 17<sup>th</sup>, 2010 - Friday - Portland, Oregon

	IPC/DESIGNERS COUNCIL MEMBER	NONMEMBER
<b>IPC Designers Learning Symposium – September 17<sup>th</sup>, 2010</b>	<b>\$ 50.00</b>	<b>\$ 75.00</b>
<b>Total</b>		
<b>*Buy 5, Get 1 Free (sixth person) – PNW Designers Learning Symposium</b>	<b>\$250.00</b>	<b>\$375.00</b>
<b>*Separate registration form required for each attendee. All attendees must be from the same company and all registration forms must be submitted and received by PNW Chapter at the same time.</b>		
<b>Total</b>		

Registrant's Name: \_\_\_\_\_

Job Title / Mail Stop: \_\_\_\_\_

Company: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone (Area Code): \_\_\_\_\_ Ext: \_\_\_\_\_

Email: \_\_\_\_\_

My total cost is \$ \_\_\_\_\_

**METHOD OF PAYMENT:**

**Payment by Mail:**  
To register by mail: Send check made payable to **PNW CHAPTER PO BOX 233 Sherwood OR 97140-0233**  
**MUST** be mailed prior to Wednesday, September 8<sup>th</sup>.

Or fax your this registration to 503-617-6550 Attention: Ruth  
and bring payment in cash or check to event

***Cancellation Policy:** Cancellations received before Wednesday, September 1, 2010 will be refunded in full if paid by cash or check OR refunded via PayPal if paid online.*

*Refunds will not be issued after Thursday, September 2.*  
*Individuals failing to cancel will be billed for the registration fee. If the event is cancelled, participants will receive a full refund.*

*If you are unable to attend the symposium you may send a co-worker in your place IF PNW Chapter is advised prior to this event.*

\* Please e-mail [radservices24@aol.com](mailto:radservices24@aol.com) with "Cancel for Symposium" in the subject line or phone Ruth at 503-819-4895 if you have questions.

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**About the Instructor:**

**SUSY WEBB** is a senior PCB designer with 30 years of design experience. She has worked in a variety of fields, including point-to-point microwave network systems, oceanographic oil exploration equipment, and CPCI and ATX computer motherboards. She has set up standards, ISO procedures and library conventions for departmental use. She is CID certified, and is an active member of the IPC Designers Council, currently working as a member of its national executive board, high-speed and education committees.

**Making the Most of Your Design Time .... ½ day**

Layout time is often one of the last things to be considered in the project cycle, so designers need to manage their time wisely in order to get the job done *on time*.

**Designing Complex Boards ..... ½ day**

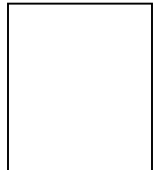
When beginning a complex board design, we are faced with a unique set of needs and questions. Where do I start the process?

**How Will You Benefit?**

Your desire to be more efficient in design is shared by many of your colleagues. This Designers Symposium will give you the hands-on skills that you can bring back to the workplace and apply immediately. Stay on top of emerging technologies, complexities and skills to make your job flow. It's the best way to remain committed to your career and to be of greater value to your employer.



PNW CHAPTER PO BOX 233  
Sherwood OR 97140-0233



**Save this date &  
RSVP Today!**