



RF/Microwave Systems Technology Seminar

Wednesday, November 12, 2003
The Toll House Hotel – Los Gatos, CA

Attend this one-day **RF/Microwave Systems Technology Seminar** to enhance your practical knowledge and ability to apply the latest technology to your RF system requirements.

WHAT YOU'LL LEARN

You will gain invaluable insights into antennas, coaxial cable, lightning protection, and spectrum utilization from the industry leaders of Smiths Interconnect. Technical presentations will be made by experts from these leading companies who will also be available to answer your questions and address application issues.

Antennas	<i>Radio Waves, Inc.</i>	www.radiowavesinc.com
Coaxial Cable Transmission Lines	<i>Times Microwave Systems</i>	www.timesmicrowave.com
Lightning Protection	<i>PolyPhaser Corporation</i>	www.polyphaser.com
Spectrum Utilization	<i>Summitek Instruments</i>	www.summitekinstruments.com

HOW YOU'LL BENEFIT

Antennas:

- **Learn** about the many types of antenna available
- **Gain** knowledge of common antenna specifications including frequency, gain, size, beamwidth & windload
- **Find out** how to choose the best antenna for your system requirements
- **Understand** how to solve perplexing installation issues

Coaxial Cables:

- **Learn** how to select coaxial cables based on insertion loss, VSWR and electrical length considerations
- **Understand** the importance of phase stability and phase matching
- **Develop** a practical understanding of transmission line test data
- **Become skilled at** proper cable termination and learn its influence on transmission line performance

Lightning Protection:

- **Develop** a working knowledge of lightning strike theory and surge currents
- **Understand** how coaxial surge protection really works
- **Learn** how to properly ground RF transmission lines to protect your valuable equipment
- **Discover** how to deal with problem sites

Spectrum Utilization:

- **Learn** how to determine the potential impact of collocating with existing wireless services
- **Understand** how other RF emissions can adversely impact you
- **Discover** the sources of base station interference and techniques for mitigation
- **Find out** how to transform a spectrum analyzer (which really doesn't analyze anything) into a powerful tool for optimizing network performance

As an added bonus, "hands-on" workshops will be provided to give the attendees an opportunity to deepen their technical skills and knowledge in each area. You will be able to learn how to properly terminate a cable for optimum performance, learn how to use an *OASIS II* for spectrum monitoring and interference identification/mitigation, design a grounding system and calculate the link budget for an RF path.

WHO SHOULD ATTEND

This seminar is targeted to engineers, supervisors, managers, technical team leaders, installation personnel and purchasing personnel involved with microwave and RF systems.



This one-day seminar is *free* to all qualified attendees. For those individuals requiring overnight accommodations, a special discounted room rate has been arranged with the Toll House hotel.



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Schedule for Wednesday, November 12, 2003

7:30 AM	- 8:15 AM	Registration & Buffet Breakfast
8:15	- 8:30	Introduction of Smiths Interconnect Group
8:30	- 9:30	1st Session - Radio Waves
9:30	- 9:45	Break
9:45	-10:45	2nd Session - Times Microwave Systems
10:45	-11:00	Break
11:00	- Noon	3rd Sessions - PolyPhaser
Noon	- 1:00 PM	Lunch & Technical Exhibits
1:00 PM	- 2:00	4th Session - Summitek
2:00	- 3:00	"Hands-On" Workshops

→ **Important:** Attendance is limited - RSVP as soon as possible to secure a reservation:

- Call: Stephanie Wnek at either 1-800-TMS-COAX or 203-949-8429, or
- Email: stephwnek@timesmicro.com, or
- Register On-line at: www.timesmicrowave.com/register-sis.htm

The Toll House Hotel
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A Special Discounted Rate of \$115.00 per night (plus tax) is available for overnight guests. Please mention the **Smiths Technology Seminar** when making your reservations to obtain this special rate.

Driving Directions: (Hotel also provides complimentary shuttle service by appointment to/from San Jose Int'l Airport)

From north of Los Gatos (San Jose/San Francisco)

- Take 880 South (towards Santa Cruz), which becomes 17, exit at Hwy 9 (Los Gatos/Saratoga), then make left at 2nd stop light (S. Santa Cruz Ave.), continue for 5 blocks, after the traffic light at Main Street you have arrived at the Toll House Hotel on the right side.

From south of Los Gatos (Santa Cruz)

- Take 17 North, exit left at Santa Cruz Avenue in Los Gatos, continue 1 block and you have arrived at the Toll House Hotel on the left side.

