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The Puget Sound Chapter of AESS presents *Antennas for Mobile Communications*

Dr Ming Chen—The Boeing Company
6pm (light refreshments) for 6:30-7:30pm, Wednesday, October 29, 2008
(venue details over)

<http://www.engadget.com/media/2006/06/connexion.jpg>

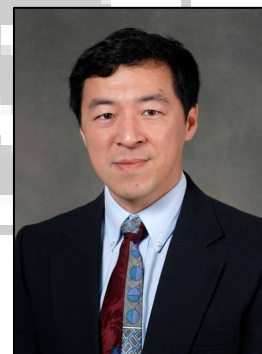
Modern phased array antenna has been a technology enabler for mobile high-speed communications via satellites, aircraft, ships and land vehicles. The RF phased array antenna concept has been around for a long time since the 1920s, but real progress was only made in the 1950s thanks to the inventions of ferrite delay line devices. Technology advances seen in recent decades in the areas of semiconductor, microelectronics packaging, and high frequency printed circuit board have contributed to the success of making phased array antennas affordable, agile, and versatile for advanced communications applications.



This tutorial will focus on such subjects such as electromagnetic wave propagation, array beam forming and steering. Some examples of phased array antennas will also be shown.

To attend, **please RSVP no later than 28 October 2008** to Reece Lumsden at reece.h.lumsden@boeing.com

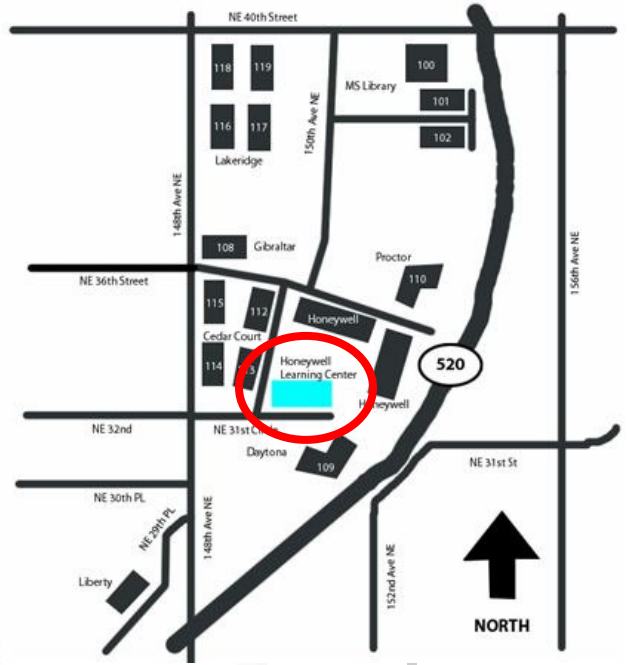
Speaker Bio: Dr. Ming Chen has been with Boeing Phantom Works for more than 12 years and is currently an Associate Technical Fellow. He has been a lead RF engineer developing phased array antenna technology for satellite communications on mobile platforms. Prior to joining Boeing, he was a postdoctoral researcher at Colorado State University working on nonlinear electromagnetic wave propagations in magnetic materials. Dr. Chen holds two US patents and has published more than fifteen papers and one book chapter. He is a Senior Member of the IEEE.



View of South side:



View of North side, showing entrance as indicated on map:



14980 NE 31st Street
Redmond, WA 98052
(Street Address is NOT on the Building)

Driving Directions

- From Sea-Tac International Airport, take State Route 518 East
- Follow signs to I-405 North Bound, continue north on I-405 through Bellevue
- Take State Route 520 East to the 148th Avenue North Exit
- At the light, the road will veer to the right
- Turn right on NE 31st Street, just past Azteca Mexican Restaurant; you will see a sign the reads "Microsoft Cedar Court"
- Turn left at the Honeywell sign onto the side street
- Turn right at the second entrance into the parking lot
- The Learning Center is in the large 3 story glass building to your right as you enter the parking lot
- Please check in at the front desk to locate your training room

