



HAWAII CENTER FOR ADVANCED
COMMUNICATIONS

Presents:

RET HAWAII SEMINAR SERIES

Research Experiences for Teachers Middle School Outreach Program

By: Professor Cynthia Furse, Ph.D

Tuesday, March 18, 2008

8:00 – 9:00 a.m. Coffee Reception

9:00 – 10:00 a.m. Seminar

University of Hawaii at Manoa . 1680 East West Road
Pacific Ocean Science & Technology Bldg. Room 126

Have YOU Thought About Engineering?

I am an Engineer. I am an Engineer, because of my high school physics teacher who asked the very shy, quiet girl in the back of the class, 'Have you thought about engineering?' And because of my 7th grade shop teacher who accepted a girl into his shop class for the first time and challenged her to work hard. And because of a kind engineering professor who asked me to sit in the front row.

This talk is for Teachers and about Teachers. It is about how you, as a Teacher, can inspire our next generation of young engineers and scientists. It is about the things that are free – attitude, interest, caring, and teaching. It is about things that are challenging – projects that dare kids to think, that give them confidence, feed their curiosity, and (in real life) don't always go 'right'. It is about resources – materials, ideas, sources of funding that can bring tools for teaching into your classroom. And this talk is an opportunity where I want to know from YOU more about what you need and want in your classroom, what the greatest challenges are, and where the greatest opportunities lie.

Please come join me for some thoughts on Engineers and the Teachers who create them.



Dr. Furse received her B.S. in electrical engineering with a mathematics minor in 1985, M.S. degree in electrical engineering in 1988, and her Ph.D. in electrical engineering from the University of Utah in 1994. She is currently a professor at the University of Utah and has taught electromagnetics, wireless communication, computational electromagnetics, microwave engineering, antenna design, and introductory electrical engineering. Dr. Furse works to interest young students, particularly women and minorities in engineering and routinely volunteers in Utah's K-12 schools as an engineering mentor, science educator, and engineering career guidance counselor and is active with the Society of Women Engineers, Junior Engineering State, Expanding your Horizons, School-to-Careers, MESA, Girl Scouts and Boy Scouts. Dr. Furse was the Professor of the Year in the College of Engineering at Utah State University for the year 2000. She is the Director of the Center of Excellence for Smart Sensors, an active, funded research program including electromagnetics for biology and remote sensing. The Center focuses on imbedded antennas and sensors in complex environments, including sensors for location of faults on aging aircraft wiring and

telemetry systems in the human body. Dr. Furse has directed the Utah Smart Wiring program, sponsored by NAVAIR and USAF, since 1998. She is Chief Scientist for LiveWire Test Labs, Inc., a spin off company commercializing devices to locate intermittent faults on live wires.

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