

# **UNH Materials Science Seminar**

11:00-12:00, Thursday, September 22, 2005

DeMeritt Hall 209B

University of New Hampshire

## **How BiCMOS Semiconductor Devices are Made**

Dr. Steven Leibiger

Fairchild Semiconductor Corporation

South Portland, Maine

**The processing steps for making submicron BiCMOS devices will be presented from start to finish. The specific flow covered is an actual 0.8 micron process being run in production at the Fairchild Semiconductor manufacturing site in South Portland, Maine. The talk will include a general summary of critical unit processing steps such as diffusion, ion implantation, photolithography, thin film deposition, and chemical vapor deposition. The scope and expense of modern semiconductor fabrication will be shown via photos and details of processing tools and facilities.**

Steven Leibiger is a Member of the Technical Staff in the Process Technology Development Group of Fairchild Semiconductor Corporation in South Portland, Maine. He has worked in the areas of circuit modeling, design automation and semiconductor process development for 20 years. He holds BSEE and MSEE degrees from M.I.T.