Speaker: Professor Eugene Fitzgerald, *Merton C. Flemings-SMA Professor of Materials Engineering*

Biography

Eugene A. Fitzgerald is Professor of Materials Science and Engineering (MSE) at the Massachusetts Institute of Technology, and Founder and Chairman of Amberwave Systems Corporation. He received a BS and a PhD degree in MSE in 1985 from MIT and 1989 from Cornell, respectively. From 1989-1994, Prof. Fitzgerald performed research at AT&T Bell Laboratories in the area of lattice-mismatched semiconductors and devices, and in 1990 created the first high mobility strained Si using relaxed SiGe buffer layers. In 1994, Prof. Fitzgerald accepted a position in the Materials Science and Engineering Department at MIT. In 2000, he received a Lord Foundation Chair. At MIT, his group research activities include electronic materials, novel semiconductor heterostructures and devices, and heteromaterial integration. In 1998, he founded Amberwave LLC, which became Amberwave Systems Corporation in 1999. Amberwave is commercializing strained Si materials, processes, and devices that increase the performance of Si CMOS. In 1999, he became an SMA fellow in the Singapore-MIT Alliance. He established an AmberWave office in Singapore in 2001 for R&D and Asia support. He currently has 12 issued patents and 40 patents pending, and has been author and co-author of more than 100 technical papers.