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3G, 4G, 5G Wireless How Many G's Until Cellphones Work in Montana?



Kevin Negus
Electrical Engineering
Thursday, August 31, 2017
4 p.m. in ELC 202

For over 30 years, a key value proposition for cellular wireless communications has been the freedom to stay connected with telephony, text and more recently broadband Internet data service “anywhere, anytime”. Yet for those of us who live in Montana or elsewhere in the Rocky Mountain west, “coverage maps” are hopelessly inaccurate due to the widespread non-availability of cellular service. This talk will describe the evolution of cellular (and Wi-Fi) technology: coverage, capacity and capability. And it will project how current trends might lead, or might not lead, to finally bringing pervasive mobile wireless connectivity to all of Montana, all of the time.

Kevin Negus has a PhD in Engineering from the University of Waterloo. Since 1986, he has contributed to developing wireless communications systems deployed in the USA via roles, such as RFIC designer, wireless system architect, or Chief Technology Officer at large and small Silicon-Valley companies. Kevin has also been a General Partner in a venture-capital firm and a technology consultant to companies, such as Google, Apple, Cisco, Verizon, AT&T, Sprint, T-Mobile, HP, Dell, Motorola. He has over 50 US patents. He joined Montana Tech in 2015 as a Research Professor in Electrical Engineering.