Recent work at NIST to develop atomic clocks and sensors based on laser cooling, atomic spectroscopy, and micro-electro-mechanical systems (MEMS) will be presented. The design, fabrication and performance of these instruments will be described, with an emphasis on our work to develop a laser-cooled atom-interferometer gyroscope and an atomic clock based on dark resonances. Finally, we speculate on possible future directions for laser-cooled atomic instruments.

Please meet our guest speaker and share in refreshments, 3:45-4:10 p.m. in the foyer on floor G above the lecture hall

Host: Dr. Peter Engels