

October 20 Meeting Announcement
IEEE Central Montana Section

**Precision Laser Ranging and Gas Sensing
at Bridger Photonics**

Randy Reibel, VP & COO
Brant Kaylor

Bridger Photonics, Inc. was founded in 2006 and ranked 146 on Inc. magazine's list of the 500 fastest growing companies for 2011. This talk will provide a technical overview of Bridger Photonics' three business areas and describe some of the challenges associated with starting up and running a high-technology company. Bridger's core business areas include: precision ladar, precision lidar and advanced imaging. Bridger's precision ladar business area is based on our actively stabilized swept laser sources. Our customers use these laser sources for industrial length metrology applications, which is the precision measurement of distance. Using our sources, world record distance measurements have been achieved with precisions as low as 13 nm on meter length scales. Bridger's precision lidar business area is focused on gas sensing markets including methamphetamine detection and CO2 sensing. For these applications, we are currently developing a compact, pulsed laser source in the mid-infrared that can achieve > 1 mJ pulses at 20 Hz repetition rates. Finally, Bridger's advanced imaging business area combines a number of technologies including deformable MEMS mirrors and digital micromirror arrays to create 3D and other imagery for both our military and commercial customers.

Thursday, October 20, 2011

**Doors open at 5:15 pm
for Networking and Free Pizza**

The talk will start at 6:00 p.m.

American Computer Museum
2023 Stadium Drive, Suite 1-A

One block from the campus of Montana State University.

A map showing the location of the museum
can be found at <http://ewh.ieee.org/r6/montana/>.

Please sign up via the Section website, <http://ewh.ieee.org/r6/montana/>, by October 19 so that we will know how much pizza to order – Thanks!