

## WEBINAR ANNOUNCEMENT

### Laser Micromachining at GT-IEN

**Richard Shafer**

Manager

Laser Micromachining Lab.

Georgia Tech Institute for Electronics and  
Nanotechnology (GT-IEN)



**Date: May 21, 2020**

**Time: 11:00 AM – 12:00 PM (EDT)**

**Abstract:** The Institute of Electronics and Nanotechnology (IEN) Laser Micro-machining Laboratory has been in operation since 2014. The mission of the laser micro-machining laboratory is to provide the capability to laser machine parts to researchers from academic, industry and government agencies at an affordable rate. Come learn about what services the IEN micro-machining laboratory offers including, Nd:Ylf laser machining, deep ultraviolet (DUV) laser ablation, RF-excited CO2 laser machining and a new Femtosecond Laser Micromachining System . The lab houses laser cutting machines that operate at several wavelengths to allow machining on a broad spectrum of materials and also offers an Areosol Jet Printer that allows the printing of ink onto various substrates down to 10um line widths.

**Bio:** Richard Shafer was born in Bloomfield, New Jersey on August 6, 1952. He moved to Lexington, KY, in 1958 when his father took a position at the newly constructed IBM plant in Lexington. Richard studied Electrical Engineering at the University of Kentucky, and afterword's worked in various fields. Shafer came to Georgia Tech in 1999 to work in the MSE department on an improved electron emitter source for deep space ion engines. He worked along with the JPL on a part of an ion engine for the Jupiter Icy Moons Orbiter (JIMO) project. When Richard started working with Dr. Mark Allen in 2005 as a lab manager, part of his responsibilities were to run the laser micromachining operations that were commissioned to make MEMS devices. In 2015, the laser micromachining equipment became part of the shared facilities at the IEN. Mr. Shafer manages the Laser Micromachining Lab and external labs in room 148 of the Petit Building. Richard has his name on+ 12 published papers and over 50 acknowledgments of his work and assistance in other researcher's publications.

**Who should attend:** Faculty, scientists, engineers, researchers, and technical staff from university, company, or government labs who use, or are interested in learning about, laser micromachining, micro- and nano-scale fabrication and characterization as part of their research efforts.

Join the Online Event May 21<sup>st</sup> at this Link: <https://bluejeans.com/163726384>