



## INFRARED MICRO-PARTICLE IMAGE VELOCIMETRY (*IR mPIV*)

The **Electronics Cooling Laboratory** at Purdue University has capitalized on the tuning capability of the OPO Twin system to provide an optimal illumination source for the infrared micro- particle image velocimetry (*IR mPIV*) being developed in the Lab. The *IR mPIV* technique measures velocity fields in silicon-based micro-fluidic devices with micron-scale resolution, exploiting the transparency of silicon in the infrared wavelength.

Professor Suresh V. Garimella  
Cooling Technologies Research Center, an NSF  
I/UCRC  
School of Mechanical Engineering, Purdue University  
[sureshg@ecn.purdue.edu](mailto:sureshg@ecn.purdue.edu)

[http://me.www.ecn.purdue.edu/ME/  
Fac\\_Staff/garimella.whtml](http://me.www.ecn.purdue.edu/ME/Fac_Staff/garimella.whtml)

