

Build the world's **fastest** laser

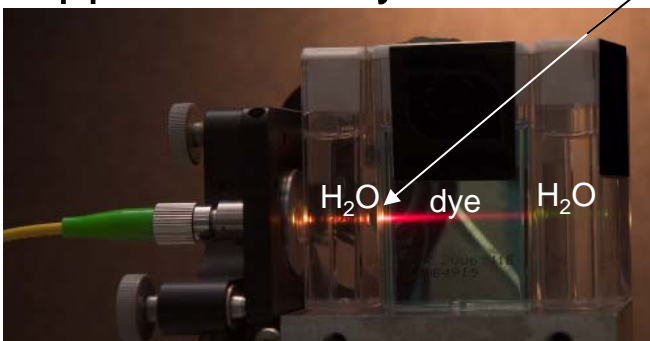
Research positions available

- undergraduate
- MS/PhD

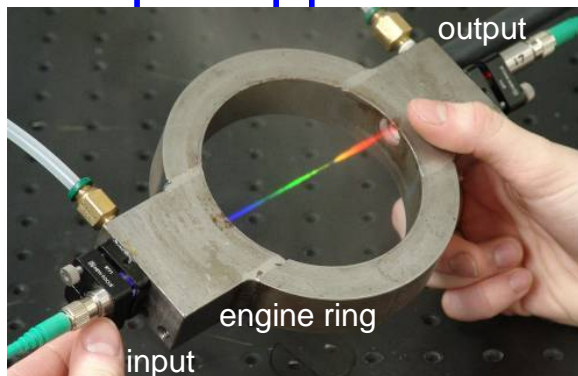
research is interdisciplinary,
so degrees in other departments
are possible

A laser we built recently

- scans 500 nm (green) to 1000 nm (IR) every 50 μs
- appears white/yellow



Example application



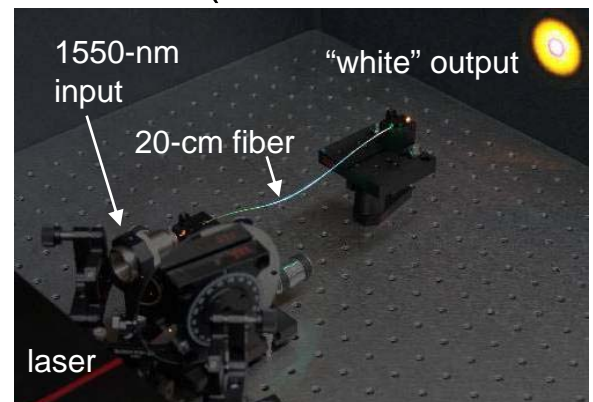
- ring forms part of engine cylinder
- monitor gas absorption spectra
- ultimately, improve fuel economy

Sanders group in Mechanical Engineering

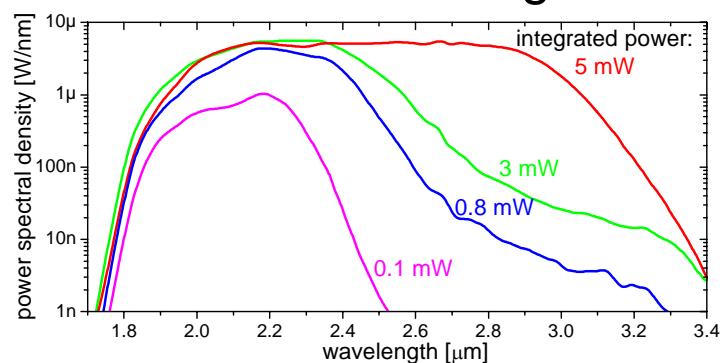


Sample research project

- understand supercontinuum generation (one color \rightarrow many)



- tailor to sensing needs, such as continuum reaching mid-IR



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