E6: Optoelectronics

Optoelectronics research area includes semiconductor based optoelectronic devices and materials as well as photonic devices. The research thrusts pursued by individual faculty includes semiconductor lasers, detectors (including focal plane arrays), photovoltaics, lithography, fiber optic technologies and nano-technology, to name a few. The area has strong ties with the optical science and engineering program as well as the Center for High Technology Materials (CHTM).

**Area Chair:** Prof. Daniel Feezel (http://www.feezellgroup.com/)

**Faculty Members:**

- Prof. Viktoria Babicheva (http://ece.unm.edu/faculty-staff/electrical-and-computer/viktoria-babicheva.html)
- Ganesh Balakrishnan (http://www.ece.unm.edu/faculty-staff/electrical-and-computer/ganesh-balakrishnan.html)
- Prof. Tito Busani, (http://www.ece.unm.edu/faculty-staff/electrical-and-computer/tito-busani.html)
- Prof. Francaesca Cavallo, (http://ece.unm.edu/faculty-staff/electrical-and-computer/francesca-cavallo.html)
- Prof. Ravi Jain (http://www.chtm.unm.edu/jain/)
- Prof. Marek Osinski (http://www.chtm.unm.edu/osinski/)

**Major core courses:**

ECE561 Electrodynamics (Spring),
ECE570 Optoelectronic Semiconductor Materials & Devices,
ECE572 Physics of Semiconductors (Spring).