



## The Directed Energy Center at the University of New Mexico

# FACT SHEET

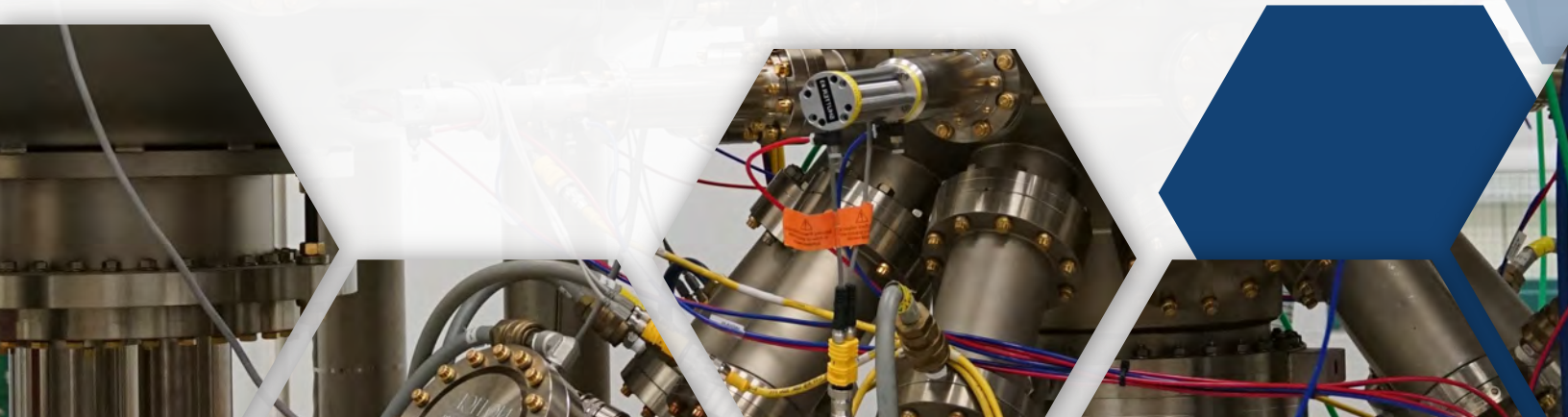
- UNM is the **only University in the Nation** with active research and education programs in both Directed Energy Lasers and Directed Energy Microwaves!
- Established October 2022 through a Congressional Mandate.

### Examples of Recent Laser Research

- Multidisciplinary Approaches to Radiation Balanced Lasers (MARBLE): Rare-Earths and Semiconductors in Disks, Fibers, and Microstructures
- Integrated Modal Control and Beam Combining of High-Power Diode Laser Arrays for the Next Generation HEL System
- Power Scalable Electrically Driven Monolithic IR Surface Emitting Lasers
- Novel Microstructured Fibers for Advanced High-Power and Hollow-Core Fiber Lasers

### Examples of Recent HPM Research

- Multi-stream TWT Amplifier
- HPM Antenna Development
- Effects of Frequency Agile Sources on Electronics and Systems
- HPM Source Development
  - X-Band to Ka-Band
- Nonlinear Transmission Lines (NLTs)
- EMP Effects on
  - Solid State Transformers





# DEC@UNM

## ADVISORY BOARD

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- Dr. David Stoudt (President, BOD, DEPS)
- Dr. Craig Robin (CEO and owner of EO Solutions)
- Mr. Wesley Green (Breakthrough Starshot)

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## FOR MORE INFORMATION

**Director:** Edl Schamiloglu, Distinguished Professor, ECE

 edls@unm.edu

**Associate Director:** Ganesh (Gunny) Balakrishnan; Director, NM EPSCoR; Professor, ECE

 gunny@unm.edu

**AFRL Program Officer:** Christopher Wilcox

 christopher.wilcox.12@us.af.mil

<https://dec.unm.edu/>