



The Directed Energy Center at the University of New Mexico  
(DEC@UNM)

# 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 an FY21 Congressional Mandate and supplemented in FY23.

## 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



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## ADVISORY BOARD

- Dr. Corry Cox (EO Solutions)
- Dr. Brad Hoff (AFRL/RDH)
- Dr. Nicholas Morley (AFRL/RDL)
- Dr. John Luginsland (AFRL)
- Dr. Charles Johnson-Bey (Booz Allen Hamilton)
- Dr. David Stoudt (Past-President, BOD, DEPS)
- Dr. Craig Robin (CEO and owner of EO Solutions)
- Dr. Shery L. Welsh (UTEP Aerospace Center)

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