

# NMSU College of Engineering

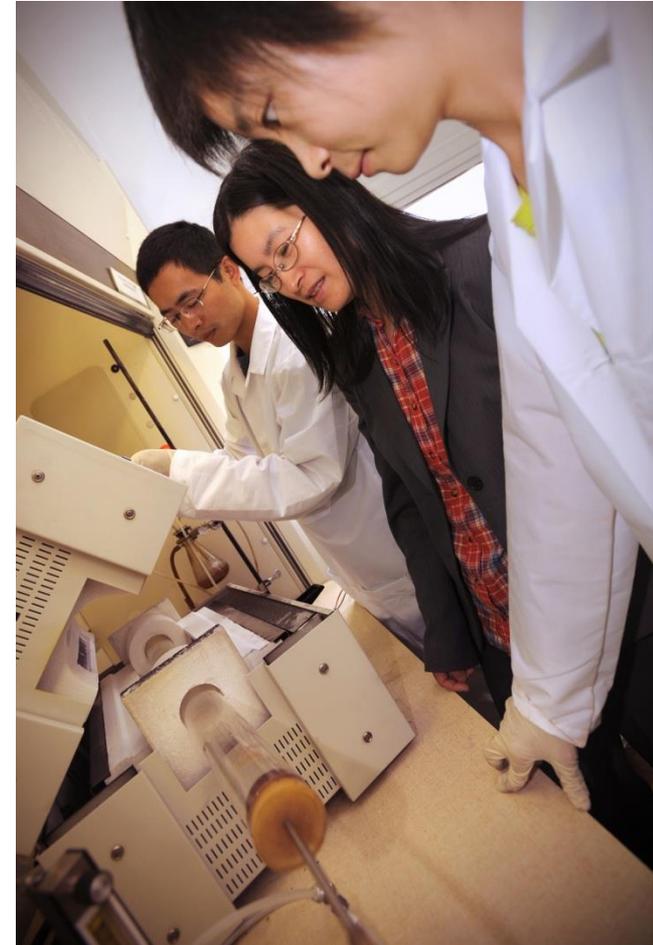
The logo for the NMSU College of Engineering, featuring the text "NMSU College of Engineering" in a bold, white, sans-serif font. The background of the logo is a blue and white geometric pattern.

Dean's Advisory  
Council

February 20-21, 2014  
NMSU PSL



# We're Celebrating Engineer's Week!



# College Update Outline

- AY 2013-14 Enrollment
- Legislative Update
- Student Technology Fee
- College Priorities
  - ✓ Undergraduate Education: increased graduation through retention and engagement
  - ✓ Graduate Education: increase doctoral student recruitment
  - ✓ Stabilize Externally Funded Research

# Enrollment: AY 2013-14

- NMSU Las Cruces Fall 2013
  - ✓ Head count: -6.5%
  - ✓ SCH: -3.5%
- CoEngr Fall 2013
  - ✓ Head Count: 0.2%
  - ✓ SCH: 4.5%
- NMSU Las Cruces Spring 2014
  - ✓ Head count: -6.5%
  - ✓ SCH: -5.4%
- CoEngr Spring 2014
  - ✓ Head Count: 1.9%
  - ✓ SCH: 2.9%

# Legislative Update

Session Ended 2/20/14 Noon

- Minority Student Services
  - ✓ Separated into STEM Alliance for Minority Participation (Engr) and CAMP (A&S)
  - ✓ STEM AMP recommended for \$326.5K
- Manufacturing Sector Technology Program
  - ✓ Serves: M-TEC, WERC, and Engineering NM
  - ✓ Recommended for \$546.8K
- Jett Hall Capital Outlay
  - ✓ \$19.2 million approved for Jett, Renfrow, and utilities



Perspective

January 2014



NEW MEXICO STATE UNIVERSITY • ENGINEERING CENTER

VAN H. GILBERT ARCHITECT PC



# Student Technology Fee

- Developed and presented to all constituents: students, faculty, administration, NMSU budget committee
- E-Council voted to support establishment of a college-level technology fee (33-4 in favor)
- Technology fee breakdown: grand total \$721,711
  - ✓ Materials and supplies \$ 86,000
  - ✓ Software 25,000
  - ✓ Data Acquisition 5,600
  - ✓ Staffing 459,070
- Cost: \$145/semester/full-time student, implement Fall 2014

# Undergraduate Education

- Goal: increase the 6-yr UG graduation rate from 33% to 50% (national average):
  - Update admission standards (Math 190 ready)
  - Increase retention of lower division students
  - Increase engagement of all students
- President Carruthers re-instated allocation of the “President’s Performance Funds”
- CoEngr awarded \$90K per year for three years to support peer mentoring for the Freshman Year Program (increased retention)
- CoEngr awarded a one time allocation of \$50K for purchase of equipment and materials for the Aggie Engineering Innovation Space (increased engagement)

# Graduate Education

- Goal: increase the enrollment of high achieving Ph.D. students
- CoEngr requested \$48K per year for three years from “President’s Performance Funds:”
  - \$48K match from ERC (base - department and faculty funds)
  - \$6K per year for stipend enhancements to recruit high achieving Ph.D. students, competitive awards to faculty and departments
  - Request to the university budget committee declined
- ERC has proceeded with implementing a reduced scale incentive using funds allocated from recovery of F&A returned to the College

# Externally Funded Research

- Goal: stabilize current level of research funding in the College
  - Raise the quality of graduate students engaged in research
  - Increase the engagement of faculty in the research enterprise
- Convened a faculty meeting in January to discuss research in the College
  - Nationally, less funding is available from federal funding agencies compared to historic highs
  - Nationally, more PI's requesting funds from federal agencies
  - "More competitive environment"
- ERC will develop and announce "seed money" incentives for faculty from F&A funds returned to the College

# Questions?

# Let's hear from our faculty panel

## “Examples, Best Practices in the Engineering Curriculum”

- Muhammad Dawood – ECE, Improving pass rates and retention
- David Rockstraw – ChemE, Safety in the curriculum
- Salim Bawazir – CE, Fountain design and undergraduate research
- Ed Pines – IE, Lucchese Boots project
- Young Ho Park – MAE, Interdisciplinary capstone design
- Luke Nogales – ETSE, Innovation and entrepreneurship
- Phillip DeLeon – ECE, App design