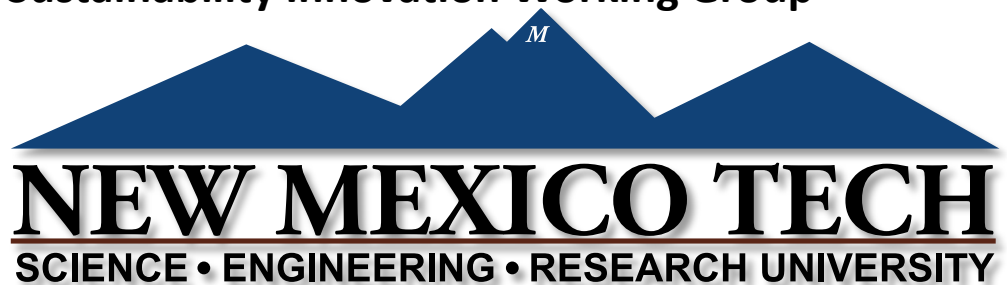




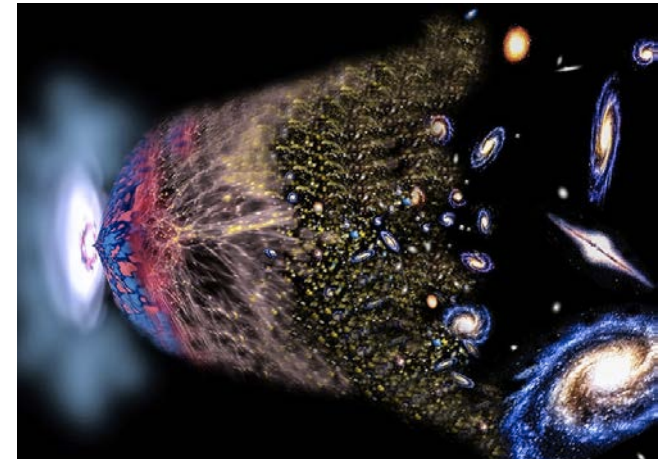
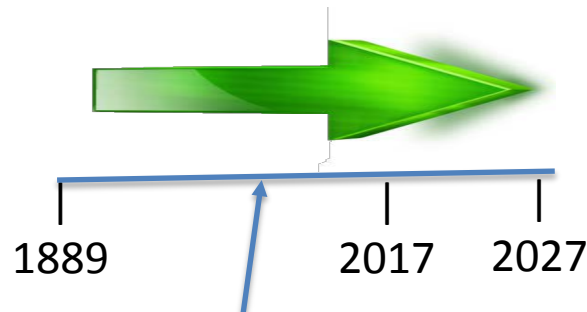
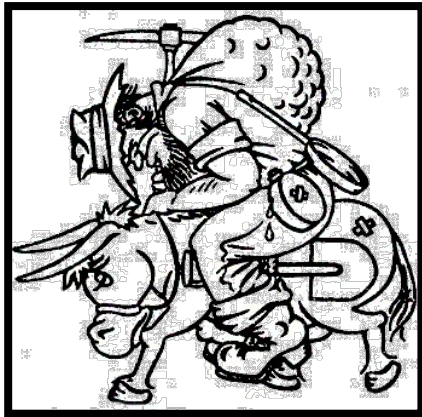
Welcome: NMT Overview
By President Stephen Wells

Presented to “Making Abandoned Mine Lands Profitable” Workshop
NM EPSCoR Sustainability Innovation Working Group



Voyage From Gold Dust to Star Dust

- Established in **1889** as the New Mexico School of Mines
- **Now** recognized as a premier educational institution in a number of areas of scientific & engineering study and research. New Mexico Tech awards degrees in 19 different academic and technical disciplines.



New Mexico Tech's Mission



2015-16 Mechanical Engineering Rocket Launch Team at Spaceport America

- Serving New Mexico and beyond through exceptional education, research, and service, focused in science, technology, engineering, and mathematics.
- Providing inquiry-based education to New Mexico's advanced workforce.
- Serving the public through applied research, professional development, and teacher education, benefitting the people of New Mexico.
- Serving New Mexico through innovation to commercialization, benefitting the economy of the state and creating opportunities for success.

RiskSense garners \$7M in venture investment

By ABQJournal News Staff
Wednesday, August 3rd, 2016 at 8:41 am



Chris Reisinger, left, is shown working in 2013 as a software developer at CAaNES, the company that has since changed its name to RiskSense to better reflect its premier product, the RiskSense cybersecurity platform. (JOURNAL FILE)

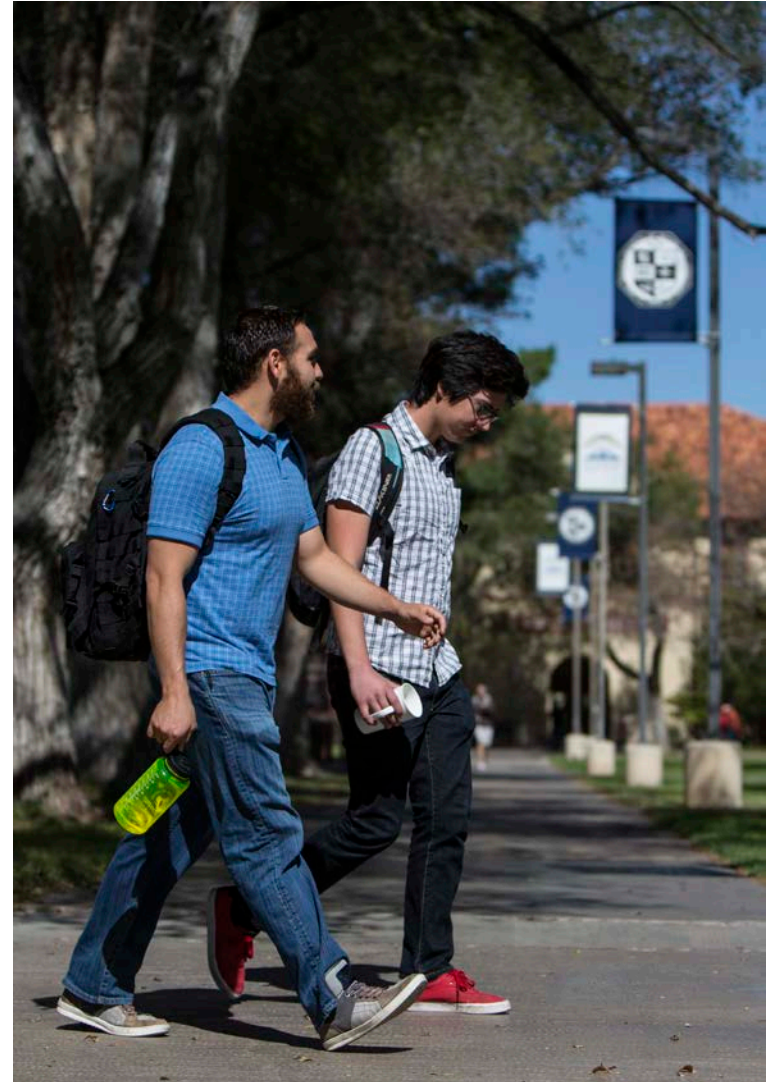
New Mexico Tech: A Snapshot

- Total Revenue = \$144M
- 35.1% of total revenue from state government (among the lowest in NM)
- Tuition & fees = 8.2% of total revenue
- 888 employees (665 Full-time), including faculty, researchers, staff
- 211 faculty (full- & part-time)
- 19 academic programs
- \$53.1M in External Awards



Our Students & Graduates

- Students Enrolled = 1525
undergrad; 610 grad
- 56% White, 28% Hispanic, 3%
American Native (undergrad)
- 64% majoring in Engineering
- 77% of entering freshman
retained following fall semester
- Graduating class of 2017 = largest
 - 72% from New Mexico
 - Ave. GPA 3.3%;
 - 74% GPAs of 3.0 and greater
- Average NMT Graduate Starting
Salary = **\$53,000**
- Average Harvard Graduate
Starting Salary = **\$48,000**



Where are our graduates?

- Employment at entities such as:
 - Sandia National Laboratories
 - Los Alamos National Laboratory
 - Google
 - Amazon Microsoft
 - Freeport-McMoRan
 - BHP
 - Motorola
 - Barrick
 - Intel
 - Lockheed-Martin
 - China Lake Naval Weapons Research
 - ARCO
 - Hewlett-Packard Raytheon
 - Boeing
 - Chevron
 - Exxon Mobil



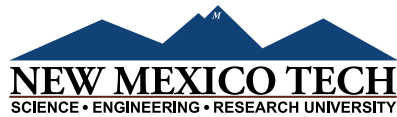
Ed Fries

- Vice President of Game Publishing at Microsoft
- Co-founder of the Xbox.
- Played instrumental role in development of Microsoft Word and Excel

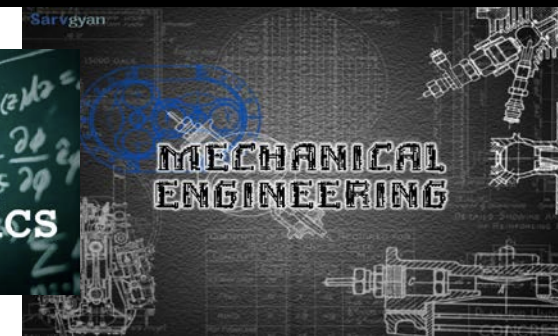
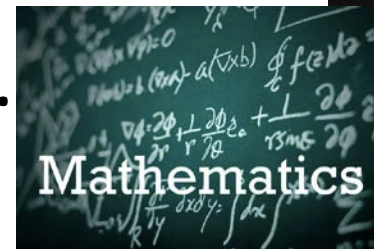


National Rankings

[from College Factual, Payscale, CollegeChoice]



- Tech is ranked No. 1 nationwide among all universities in Engineering and Physics in terms of best colleges for best value.
- Repeated No. 1 ranking in Chemical Engineering & Mechanical Engineering
- Top 2% among all universities in Computer Science and Top 2% in Physical Sciences.
- Top 1% nationally in Mathematics.
- Top ranking for best Petroleum Engineering Degree Programs.
- Overall, Tech ranks No. 1 in New Mexico, No. 2 in the Southwest, and 31st nationally among all public universities.



The top 50 Universities that produce PhD students

NATIONAL SCIENCE FOUNDATION Rankings

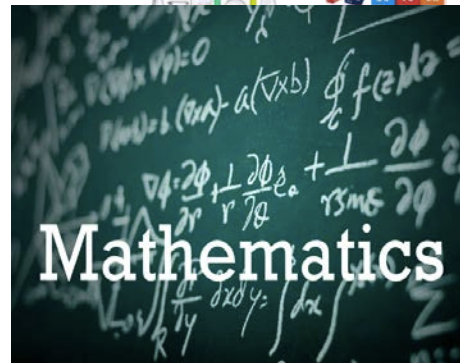
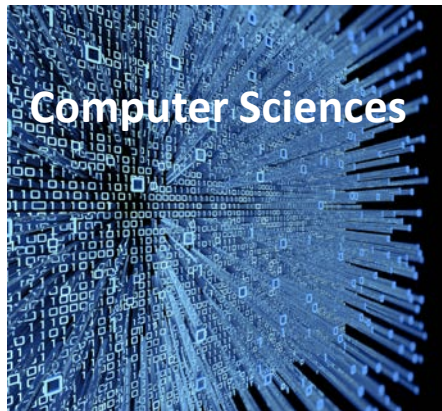
1. Cal Tech
2. Harvey Mudd College
3. MIT
4. Reed College
5. Swarthmore College
6. Carleton College
7. University of Chicago
8. Grinnell College
9. Rice University
10. Princeton University
11. Harvard University
12. Bryn Mawr College
13. Haverford College
- 14. New Mexico Tech**
15. Pomona College
16. Williams College
17. Yale University
18. Oberlin College
19. Stanford University
20. Johns Hopkins
21. Kalamazoo College
22. Cornell University
23. Case Western Reserve
24. Washington College
25. Brown University
26. Wesleyan University
27. Carnegie Mellon
28. Macalester College
29. Amherst College
30. Duke University
31. Beloit College
32. Bowdoin College
33. Wellesley College
34. RPI
35. Earlham College
36. Franklin and Marshall
37. Lawrence University
38. University of Rochester
- 39. Univ of Cal-Berkeley**
40. Dartmouth College
41. Occidental College
42. Hendrix College
43. Vassar College
44. Trinity University
- 45. College of William and Mary**
46. St. John College
47. Bates College
48. Whitman College
49. Brandeis University
50. Hampshire College

Blue = Public Universities

Black = Private

Transdisciplinary Doctoral Degree Programs at New Mexico Tech:

- *Biotechnology – lead department: Biology*
- *Intelligent Energetics – lead department: Mechanical Engineering*
- *Cyber Systems- lead department: Electrical Engineering*

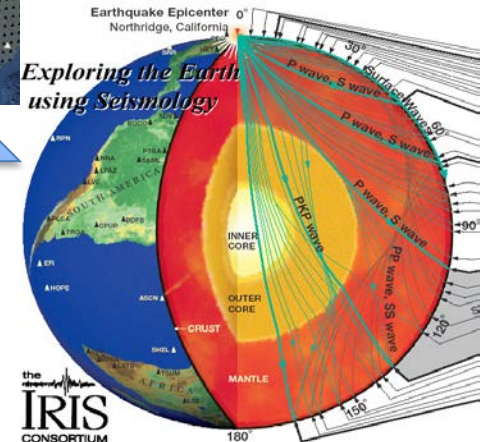
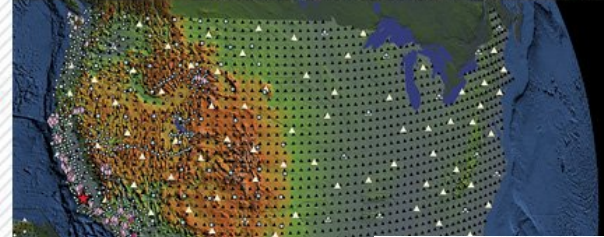




Annual budget: \$15,000,000
Construction cost: \$300,000,000
Staff: 280
Physical size: 27 antennas on 39 miles of track
Scientific utility: 8
WIIFY: 3
Wow factor: 6



Annual budget: \$25,000,000
Construction cost: \$197,000,000
Staff: 110
Physical size: 3.8 million square miles
Scientific utility: 10
WIIFY: 10
Wow factor: 10



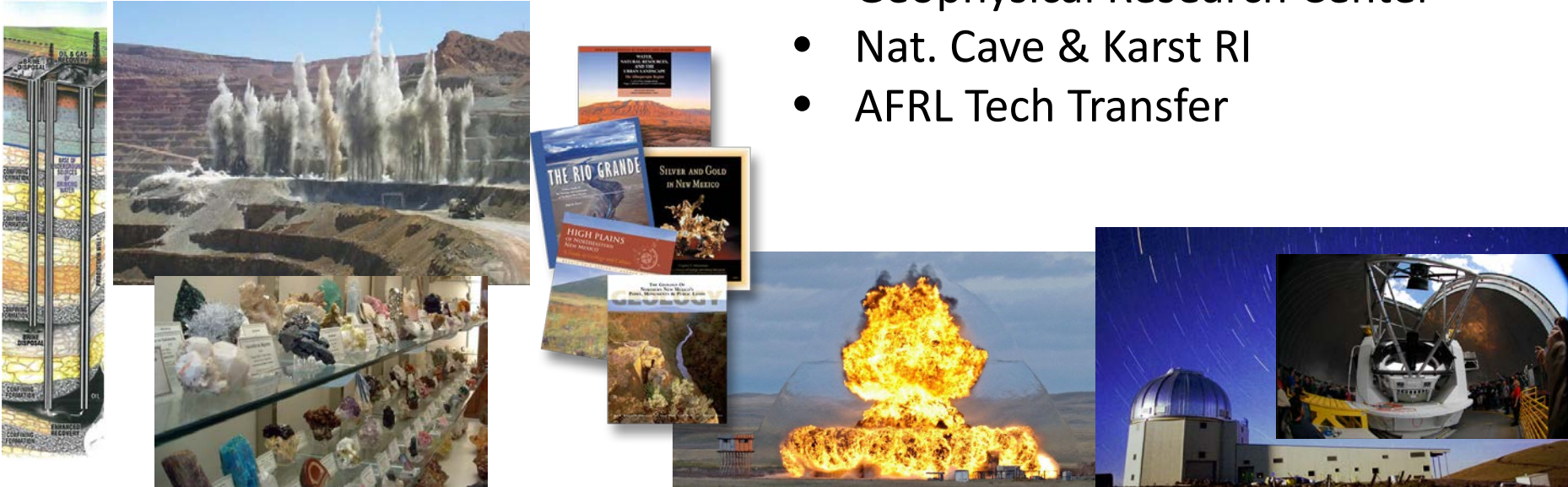
Breadth of Research Endeavors

NMT Academic & State Units

- College of Engineering
 - 9 Depts.
- College of Arts & Sciences
 - 8 Depts.
- NM Bureau of Geology & Mineral Resources
- Petroleum Recovery Research Center

Centers for Scientific and Engineering Research & Testing

- Playas TRC
- Energetic Material RTC
- IRIS/Passcal
- Magdalena Ridge Observatory
- ICASA
- Langmuir Lab
- Geophysical Research Center
- Nat. Cave & Karst RI
- AFRL Tech Transfer



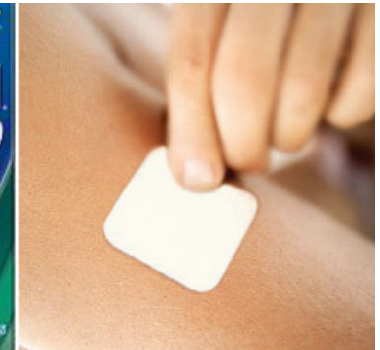
- Key elements of NMT 2027 Vision:
 - be an Entrepreneurial University, where innovations by students, faculty, and staff are encouraged, supported, and rewarded;
 - become a recognized Doctoral-granting Institution;
 - gradually increase research funding and outputs at all levels; and
 - leverage campus innovations and technologies (in addition to education resources) to support economic development efforts in New Mexico.





Dr. Frank Etscorn

- New Mexico Tech faculty member who invented the nicotine patch aiding people with nicotine addiction



Economic Development Vision

“New Mexico Tech will promote sustainable economic development in Socorro, Central New Mexico, and the State of New Mexico as a whole by:

- *leveraging market-driven commercialization of Institute technologies,*
 - *appropriate collaborations with the business community and State economic development entities, and*
 - *continued excellence in **STE²M** (Science, Technology, Engineering, Entrepreneurship, Math) education as an Entrepreneurship University at both undergraduate and graduate levels.”*
- ***STE²M**: in final stages of being trademark for NMT*

Office of Innovation Commercialization

- Be a leader in market-driven, organic approaches to university technology transfer and commercialization;
- Provide support and process information to NMT inventors throughout the development and commercialization process;
- Build on existing efforts and capabilities to promote economic development in New Mexico in ways that will optimize use of NMT’s unique capabilities; and
- Be a champion for the idea and development of NMT as an Entrepreneurship University.



Thank You.

