



BE BOLD. Shape the Future.
College of Engineering



Summer 2019



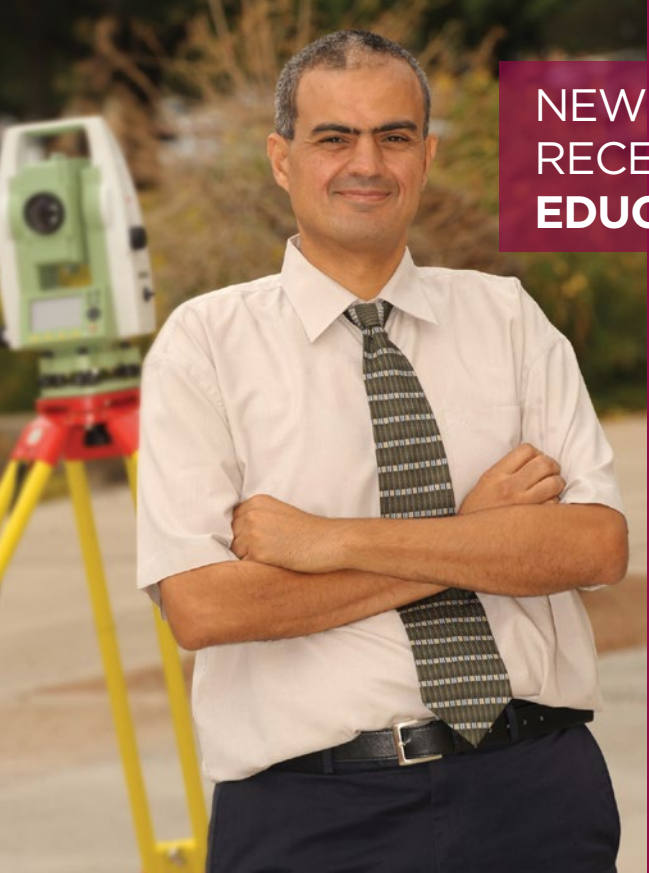
AGGIES WITHOUT LIMITS BUILDS WATER SYSTEM FOR GUATEMALAN TOWN

A community of 350 people in Guatemala now have secured access to water with the help of New Mexico State University Aggies Without Limits, which funded, designed and built a potable water system. Consisting of a reservoir tank, pipelines and tap stands, the system distributes water to 55 families in the Mayan village of San Jose Lote 19, in the northwestern part of the country.

Previously, families walked up to eight kilometers round trip in mountainous terrain to access water. Some springs are available only one hour a day, every other day.

Planning for the project began in September 2018 and the first trips to Guatemala began in January. In May, 24 students, two NMSU advisers and two community members traveled to Guatemala for the three-week-long project.

Read more: engr.nmsu.edu/awl/



NEW MEXICO STATE UNIVERSITY RECEIVES NATIONAL GEOMATICS/SURVEYING EDUCATION GRAND PRIZE

The National Council of Examiners for Engineering and Surveying recently awarded the New Mexico State University Geomatics/Surveying Engineering program the grand prize for the 2019 NCEES Surveying Education Award. This annual award recognizes surveying programs that best reflect the organization's mission to advance licensure for surveyors in order to safeguard the health, safety and welfare of the public.

The honor brings a \$25,000 grand prize to support the NMSU program's continued efforts to promote the importance and value of surveying licensure. The award jury considered criteria such as student outcomes and involvement, outreach and recruitment, and the promotion of licensure. Associate Professor Ahmed Elaksher and Engineering Technology and Surveying Engineering Department Head Ruinian Jiang traveled to Washington, D.C. in August to accept the award.

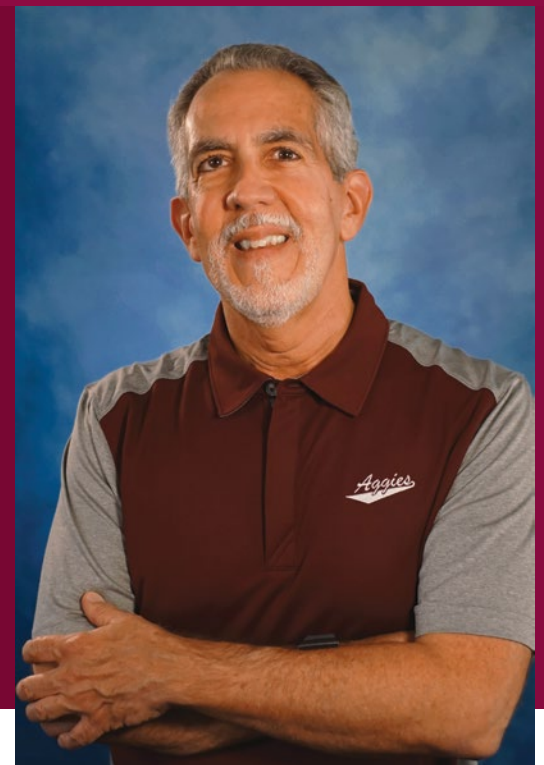
Read more: enr.nmsu.edu/geomatics-3/

NEW ENGINEERING ASSOCIATE DEAN OF ACADEMICS JOINS NMSU

Antonio García, newly appointed associate dean of academics for the College of Engineering, brings more than 30 years of experience in academia with him, and the desire to do something to benefit the greater good.

García comes from Arizona State University where he launched his academic career as an assistant professor in chemical and bioengineering in 1989. Following his graduation with a bachelor's degree in chemical engineering from Rutgers University, he worked for Exxon Research Engineering Company and developed a passion for research. He then went on to earn his Ph.D. at the University of California, Berkeley in 1988.

Read more enr.nmsu.edu/garcia/



NMSU ENGINEERING RESEARCH PROJECT AIMS TO IMPROVE FLIGHT TIME OF UNMANNED AERIAL SYSTEMS

Model aircraft, which are also referred to as UAS, or unmanned aerial systems, could be used for rangeland and forest monitoring, and a research project in the College of Engineering is focused on increasing the endurance of such aircraft.

Through a combination of solar power and the utilization of atmospheric updrafts called thermals, a UAS could fly for several hours as opposed to the 30-minute flight time that a battery-powered aircraft offers.

“The project was partially motivated by research at the Jornada Experimental Range about the use of UAVs for agricultural monitoring,” said Andreas Gross, mechanical engineering assistant professor and head of the Computational Fluid Dynamics Laboratory.

[Read more engr.nmsu.edu/uas/](http://engr.nmsu.edu/uas/)





THOMAS KLEIN TO LEAD CARLSBAD ENVIRONMENTAL MONITORING AND RESEARCH CENTER

Thomas M. Klein was recently named director of the Carlsbad Environmental Monitoring and Research Center, administered by the NMSU College of Engineering. Klein will lead collaboration among Los Alamos National Laboratory, the College of Engineering, the Nuclear Waste Partnership and Sandia National Laboratories in this internationally-recognized research facility.

Klein brings 31 years of experience in nuclear waste disposal, environmental remediation, industrial health and safety and has worked in regulatory compliance for national, state and local governments. Since 2002, he has worked in various capacities in relation to the Department of Energy Waste Isolation Pilot Plant, which is monitored by CEMRC. His most recent position as a member of the recertification team to obtain U.S. Environmental Protection Agency five-year recertification for WIPP.

Read more enr.nmsu.edu/cemrc/



ENGINEERING STRATEGIC ROADMAP SETS GOALS FOR 2025

This summer, the College of Engineering unveiled its 2025 Strategic Roadmap following nearly two years of gathering feedback from a wide network of stakeholders. The roadmap has been fine tuned to dovetail with the NMSU LEADS 2025 universitywide strategic plan, also officially released this summer.

“The 2025 roadmap is intended to be a continuous improvement plan to be embraced by all faculty and staff members of the college. Its goals and objectives provide guidance for the next steps toward fulfilling the mission and vision of NMSU,” said Lakshmi N. Reddi, dean of the College of Engineering.

“The College of Engineering administrative team will be intentional in assessment of progress toward fulfilling the goals in this plan. Annual evaluations, as well as promotion and tenure documentation, will be aligned with this document,” added Reddi.

The full document may be viewed at [/files/2019/08/Strategic-Roadmap.pdf](http://files/2019/08/Strategic-Roadmap.pdf)

NEW MEXICO STATE UNIVERSITY COLLEGE OF ENGINEERING 2025 STRATEGIC ROADMAP

Goal 1. Enhance student success and social mobility

- Objective 1.1: Provide innovative and relevant educational and research programs
- Objective 1.2: Promote student success (3Gs – Get the degree, Get a job and Give back)

Goal 2. Elevate research and creativity

- Objective 2.1: Support thematic areas of research and enhance extramural funding
- Objective 2.2: Increase postdoctoral fellows, research faculty and Ph.D. startup funds

Goal 3. Amplify extension and outreach

- Objective: Increase opportunities to engage alumni, engineering professionals, K-12 students and other groups

Goal 4. Build a robust college

- Objective 4.1: Promote faculty and staff excellence
- Objective 4.2 Develop and diversify gifts
- Objective 4.3: Advance access, diversity and internationalization

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“Goddard Broadcast” pays homage to wireless communication pioneer Ralph Willis Goddard, one of the founders of the engineering school in 1914, and former dean of engineering at NMSU, originally known as the New Mexico College of Agriculture and Mechanic Arts.

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