



**NM** College of  
**STATE** Engineering

**GODDARD**  
B R O A D C A S T

Summer 2018



## NMSU REGENTS SELECT ENGINEERING ALUM **DAN ARVIZU** **AS CHANCELLOR**

**NMSU's Board of Regents** announced the selection of Dan Arvizu, Ph.D., as the university system's next chancellor. They also selected John D. Floros, Ph.D., as president of NMSU.

Arvizu, an NMSU engineering alum, formerly served as senior adviser to the Emerson Elemental practice of Emerson Collective. In 2015, he retired as director of the U.S. Department of Energy's National Renewable Energy Laboratory.

"I am immensely proud as an Aggie to be coming home," Arvizu said.

Arvizu took his position on May 21. He succeeds current Chancellor Garrey Carruthers, who has led the university since 2013 and retired on July 1.

**Read More:** [enr.nmsu.edu/arvizu/](http://enr.nmsu.edu/arvizu/)

## **AGGIE INNOVATION SPACE** **INTEGRATION TO ENHANCE** EDUCATION, RESEARCH AND OUTREACH

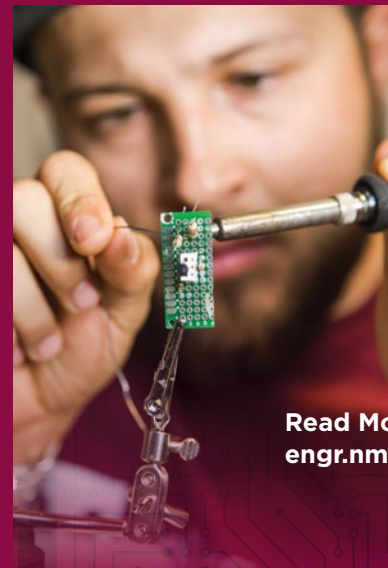
Students in the College of Engineering have access to three distinct spaces that enable creative problem solving. The college is now planning to integrate them, increasing their capabilities and better serving the student population and the community.

At the Aggie Innovation Space, students and the community have access to experienced mentors, new technologies, design software and tools. The Student Project Center is a fabrication lab where students build class projects. The Manufacturing and Engineering Technology Center provides engineering analysis and manufacturing support to entrepreneurs and businesses and also serves as a teaching lab.

To continue under the name Aggie Innovation Space, the new integrated facility will house modern equipment in open work spaces with expanded capabilities to provide new opportunities for experiential learning and student engagement.

"This move coincides in timing with the development and implementation of new manufacturing and systems engineering educational programs at both undergraduate and graduate levels," said College of Engineering Dean Lakshmi N. Reddi.

"These educational programs, along with new student-centric initiatives in the college, such as Learning Communities and college-wide capstone design projects based in industry partnerships, will uniquely leverage and modernize the new Aggie Innovation Space activities."



**Read More:**  
[enr.nmsu.edu/innovation/](http://enr.nmsu.edu/innovation/)



## NMSU MECHANICAL ENGINEERING DOCTORAL STUDENT **AWARDED** **NSF RESEARCH FELLOWSHIP**

**Ph.D. student** Samantha Ceballes received the 2018 National Science Foundation Graduate Research Fellowship Program award. The fellowship has an annual stipend of \$34,000 per year for three years and an additional \$12,000 per year for university tuition and fees. The fellowship can be used at any school and Ceballes will continue at NMSU.

She began her doctoral studies in mechanical engineering in January 2018, having earned a bachelor's degree in both aerospace engineering and mechanical engineering with a minor in mathematics in December 2017. She was the Highest Honors Graduate for the College of Engineering at the fall commencement ceremony, completing her studies with a 4.0 GPA.

An Alamogordo, New Mexico, native, Ceballes said, "I've always found success here, so I wanted to apply for the fellowship and if I could stay at NMSU that would be all-around great."

**Read More:**  
[enr.nmsu.edu/ceballes/](http://enr.nmsu.edu/ceballes/)



## CIVIL ENGINEERING PROFESSOR **PRODUCES RIVER OF RESEARCH**

Nagamany Nirmalakhandan, professor of civil engineering, was named as the first holder of the Ed and Harold Foreman Endowed Chair in Civil Engineering in 2011. In 2016, this prolific researcher and esteemed teacher received a renewal of the five-year honor, making him the only holder of the chair.

Khandan, a member of the NMSU faculty since 1989, has a substantial portfolio of research in environmental engineering to his credit. Most notable are his efforts connected with the Engineering Research Center for Re-Inventing

the Nation's Urban Water Infrastructure (ReNUWIt), a National Science Foundation-funded effort with the goal of reinventing America's aging water infrastructure.

Khandan coordinates NMSU research projects funded by ReNUWIt. The collaborative effort garnered this group of ReNUWIt researchers the NMSU University Research Council Team Award for Exceptional Achievements in Creative Scholarly Activity in 2017.

**Read more:** [enr.nmsu.edu/khandan/](http://enr.nmsu.edu/khandan/)



## RETIRED REGIONAL BUSINESSMAN BRIDGES COMMUNITIES WITH ENDOWED SCHOLARSHIP

Retired Las Cruces businessman and engineer Orlando Cervantes recently made a donation of \$50,000 to create the Orlando Cervantes Endowed Scholarship. The scholarship specifically bridges El Paso and Las Cruces by awarding graduates of El Paso High School with scholarships to complete a degree in engineering from NMSU.

**Cervantes proudly explained his idea behind the scholarship, “I’m an Aggie,” he said. “And, I’m a Tiger.”**

A native El Pasoan and graduate of El Paso High School, Cervantes’ life is a culmination of opportunity, perseverance and hard work. He earned a football

scholarship to play at NMSU and after his freshman year, Cervantes voluntarily joined the military. Stationed in Korea for two years, he honed his engineering skills working on building and engineering projects for the army.

Following his service, Cervantes returned to El Paso, completed his degree in engineering from NMSU in 1960 and worked as an engineer for nine years before he took on his wife’s family farm.

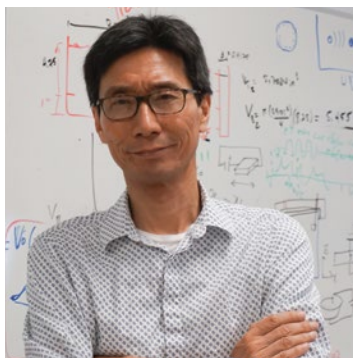
Cervantes hopes his scholarship opens doors for new generations of fellow Tigers and Aggies.

**Read More:**  
[engr.nmsu.edu/cervantes/](http://engr.nmsu.edu/cervantes/)

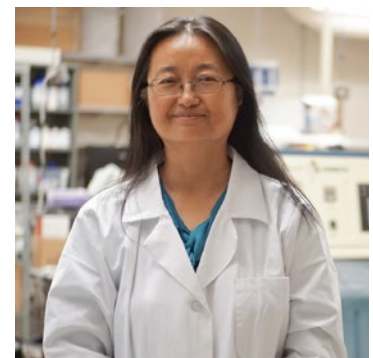
## PROFESSORSHIPS AWARDED TO ENGINEERING FACULTY MEMBERS



**Dr. Catherine Brewer**  
**Department of Chemical  
and Materials Engineering**  
John Kaichiro Nakayama and  
Tome Miyaguchi Nakayama  
Endowed Professor



**Dr. Young-Ho Park**  
**Department of Mechanical  
and Aerospace Engineering**  
John Kaichiro Nakayama and  
Tome Miyaguchi Nakayama  
Endowed Professor



**Dr. Pei Xu**  
**Department of  
Civil Engineering**  
PESCO Endowed Professorship  
in Industrial Water Quality and  
Reclamation Research



## CUMMINS-NMSU ENGINEERING PARTNERSHIP A “WIN-WIN”

Cummins Inc. and the Engineering Technology and Surveying Engineering Department have entered a unique partnership that will enrich the engineering educational experience of current and future students. Cummins is providing funding for projects that will give students hands-on experience refurbishing old and outdated, but much needed laboratory equipment.

Cummins has a long history of supporting NMSU engineering, dating back to at least the mid-1980s. Alonso Navarrete, a 2011 NMSU mechanical engineering technology graduate and now current product service group leader at Cummins, acted on the suggestion of an NMSU co-op student this past fall that the company might support student projects.

Navarrete sought and received that support and connected with Luke Nogales, associate professor and program coordinator of mechanical engineering technology. Nogales and fellow faculty members proposed four projects that focus on the refurbishment of laboratory equipment that no longer works, but which would be useful for teaching.

**Read More:**  
[enr.nmsu.edu/cummins/](http://enr.nmsu.edu/cummins/)



## ALUMNI AND FRIENDS INVITED TO JOIN **HOMEcoming 2018** **CELEBRATIONS** **OCTOBER 4-6**

**A tradition since 1926**, this year's 130th anniversary Homecoming is a great opportunity for Aggies of all ages to reconnect with the university and their Aggie Pride.

Starting October 1, the NMSU alumni association will host reunions for the classes of 1958 and 1968, along with the Homecoming Bonfire, Game Day Parade, the Celebration of Traditions Memorial Ceremony event honoring fallen Aggie military veterans, the Golden A's luncheon, the Alumni Association Homecoming Tailgate, ending with the Homecoming football game Saturday, October 6, against the Liberty University Flames.

Follow the Alumni Association event details on social media at @NMSUAlumFriends on Facebook, Twitter, and Instagram for more announcements.

### COLLEGE OF ENGINEERING **HOMEcoming EVENTS**

#### **Thursday, October 4**

##### **Engineers' Council Cookout**

**Noon-1:30 pm** ▶ **Maggard Courtyard** (*All invited*)

Burgers, music, student group information tables and games

##### **Klipsch Museum Open House**

**1:00-2:00 pm** ▶ **Foreman Engineering Complex**

Tour and demonstrations of the original Klipsch speakers

#### **Friday, October 5**

##### **Scholarship Donors Breakfast**

**7:30-8:30 am** ▶ **Corbett Center Ballrooms**

*(By invitation only)*

**More information on College of Engineering events can be found at:** [enr.nmsu.edu/homecoming/](http://enr.nmsu.edu/homecoming/)

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**SUPPORT AGGIE ENGINEERING**

<https://enr.nmsu.edu/giving/make-a-gift/>

**NM** College of  
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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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