Welcome Back

Welcome Back

I am the "I" in Innovation

J.D. Rottweiler, Ph.D. 2019 Convocation August 12, 2019

- Convocation is derived from a Latin term that literally means, "to call together."
 - The original function of convocation was to assemble a group of scholars to hear, to express opinions, and to reach agreements through the exercise of free discussion.
- Today we need to begin a discussion:
 - about INNOVATION
 - and our MISSION, VISION, VALUES, and PURPOSE

Convocation:

- Innovation = introducing something new
- Innovation = improving an existing idea or process
- Innovation = problem solving
- Innovation = disruption of the Status Quo
 - Any attempt to maintain the status quo is certain to failure

I am the "I" in Innovation

2018-19 in Review

- Completed our 54th year of Educational Services in Cochise County
 - 1,596 Associate Degrees Awarded
- Expanded educational opportunities across the District:
 - Cochise County Senior Scholarship Guarantee
 - Enhanced Educational Partnerships
 - Navigators
 - Dual Credit initiatives with High Schools and Cochise Technology District
 - K-12 partnerships
 - University Transfer
- Faculty Support Center
- Student Completion Initiatives
 - "Game Changers"
 - Mandatory Advising
- New/Expanded Programming

Looking Back and Looking Forward

PTK CONTRIBUTES
TO COCHISE
SUCCESS

When you see Jennifer Wantz walking the High Desert Nature Teali and impecting bird boxes near the Cochine College Serra Vista campus, it's hard to remember her role as the Director of Events and Anolli ary Services for the Institution.

Went is responsible for organizing and scheduling all the classooners, meeting rooms and other facilities for Cachie Cellege. She also serves as an advisor for one of the two PED The En Supp. O'TEO Obstates at the college called Alpha Mar Zea. PET is a precise increasional honor society with more than 35 million emembers in the United States and both chapters at the college are 5 fast chapters, the highest rank a chapter can receive.

Although both roles are important, it's her service as an advisor that has recently brought necessition and impressive henors to several Cochine Cellege students. Wantz works with about 30 students who undertake projects that are both educational and heneficial to the community.

"There are lots of requirements to qualify as a five-star Phi Theta Kappa chapter and include a reason project called Honors in Action and the College Project, which must benefit the campus in some way," Wards said in a recent interview. Our students have been remarkable in what they have accomplished."

The success of the local chapter on the Sterra Vitta Campus has been confirmed by the achievements and averale sarred in occurit years. The Cachine College students have received Jack Kent Cock Foundation scholarshops, a greatigation national award that recognition the best scalemate performers who are making a difference in their community.

One of the projects for the acchapter is the reason Wantz can acsometimes be feeind walking the wanter path just outside her office on the Sterra Vista campus.

"I'm not a histologist, but I have to admit that I've learned a lot about native song birds and their austing behavious because of PI'K and the traderit's interest in a topic," also quipped.

Last year students erected five

cerer, w

Last year students erected five meeting "bosus" along the trail, them continuously monitored the activity of song binds that frequented the attes. The project earned an honors study topic regional award from the

"That was the first time we won





a regional award for an Honors in Action project since I have been an advisor, so it was postty exciting." Wantz said.

It was also one of the reasons that the student who took the lead on the project, Yassins Fouchal, earned a \$40,000 per year Jack Kent Cook scholarship for up to three years.

"Having that project on his application, along with his high academic record and other activities, made a difference," Wantz said.

Even though the school year ended and technically, the brid box project was completed, Wantz mail the activities of the song brids are still being mentioned. She credits the participation of a local credit-bologist. Kate Sout with the Madrean Architeghago. Wildlife Center, who traveled from the Sonotia rare and volunteemed better time and travel expenses to help with the project.

A second student, Maria Sckaff, was awarded the scholarship in 2018 in part for her work on a college project involving a peer-to-



year and at risk students
"To have two students, two year
in a rose, earn the Jack Kent Cook

in a row, earn the lack Kent Cook scholarship is enally arracing." Wants and. "It's a great reflection on Cochise College." This year, students in the Alpha.

Mu Zefa chapter are performing check results to identify potential bone marrow denore. Bather this year some 61 students, faculty, and staff participated in having the inside of their morals weathed, to collect a DNA sample for the denor program.

"We also have a group of students who are working an 'inflaencer' project, where they are preparing short videou that help in learning how to do some of the basic things that are involved with using the facilities at the college," Wante said.

Wantz said the interaction with students is always researching and after four years as the advisor for the Phi Theta Kappu chapter, she is looking forward to new initiatives.

"Working with PTK has been a great and it's been wonderful working with the students," she said.

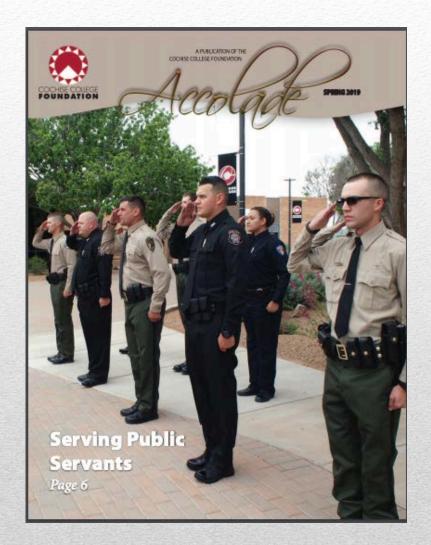


Student Success

- All-Arizona Academic Team (2019)
 - Paulette Iniguez: First Team
 - Yassine Fouchal: First Team/Coca-Cola Gold
 - Guillermo Gamez Cordova: Second Team
 - Joshua Novinger: Third Team
- Jack Kent Cooke Scholars
 - Maria Sckaff (2018)
 - University of California, San Diego
 - Biomedical Engineering (Genetics)
 - Yassine Fouchal (2019)
 - Purdue University
 - Aerospace Engineering (Astronaut)

Phi Theta Kappa

- Alpha Beta Zeta (Douglas)–5 Star Chapter
- Alpha Mu Zeta (Sierra Vista)–5 Star Chapter





Academy draws The Cochise College Southeast Arizona Law Enforcement Training Academy (SEALETA) issued its first certificates to nine recruits in May. The 17-week academy drew recruits spensored by five law enforcement agencies across Arizona. trainees to Students enrolling in the intensive course first passed the requirements to become award law enforcement officers. Sponsoring agencies prescreamed enrollens using a detailed background check, polygraph test and medical exam. Recruits

By Eva Dickerson

also passed a series of instructional block exams county and exhibited proficiency in skill-based exams, including finearm use, emergency which operations, subject control tactics, and other job-related skills. The rigorous, 680-hour course included completion of the Peace Officer Physical Aptitude Test (POPAT), and students earned 30 college

> Once the physical and cognitive tests are successfully completed, each recruit must also complete



EDUCATION IN ACTION



Beginning last August, the 12 students who completed the course built a 1,420-square foot single family home on North Second Street in Sterra Vista. The three-bedroom, two-bath home has already been sold and planning has already started for another project in the

arreary started for another project in coming achoel year. "This was our first house and we learned some things," said Dr. Rod Flanigan, Dean of Business and Technology at the college. "We anti making some changes to push back the completion date and allow the student to participate in the construction process through to the end."

Dr. Flungan credited the community's

help in making the project a reality. Local contractor Butherford Diversified Industries cleared the property, while real estate developer Castle and Cooke donated architectural plan. light fixtures and painting of the house. The Cochise College Foundation

sponsored the project, securing special financing for the construction from American Southwest Credit Union.

"It was impressive that the communit came together to make this happen," said Dr. Flamgan. "Building a new home on North Second Street is a great way to revitalize this neighborhood and contributes to higher property values for surrounding homeowners." Beginning last August, students

worked Monday through Thursday under the direction of tradesman and faculty member Doug Schlarbaum to complete the project. The class included four military veterans, and a woman who has a PhD in another uses of study. "She wanted to learn about

construction and everything that's involved with building a new home." Dr. Flanigin said. "She's been a great recruiter of new students for the

Graduates of the two semester course received a certificate in residential construction technology and are eligible o apply the credits earned toward an

issociate's Degree.
"The students learn just about verything there is to know about unbing, electrical and HVAC," Dr. inigin said. "They did the tile, the rish work, the framing, the concrete, and all the sheet rock among other

Seven students have already enrolled n the program for the upcoming school ear and planning has started for onstruction of a new home immediately diacent to the existing property. The next home will be a mirror image

of this one," Dr. Flanigan said.
Dr. Flanigan joined the Cochise
College staff earlier this year, after earning tenure during his seven years at the University of Nebraska, in Lincoln, Nebraska, Prior to that he had a 25-year areer in manufacturing, owning a mpany before selling the firm and getting into education.

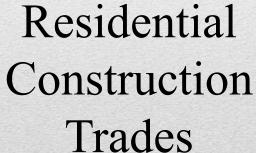
T believe in the community college system," he said. "For people of all ages, community colleges are providing a skill set they can actually use in life," Dr. Flantgan raid.



Construction instructor Doug Schlarbaum, stand in the kitchen at the nearly-complet-ed home built by students enrolled

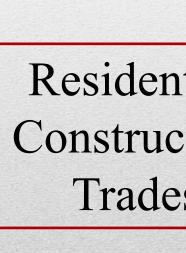


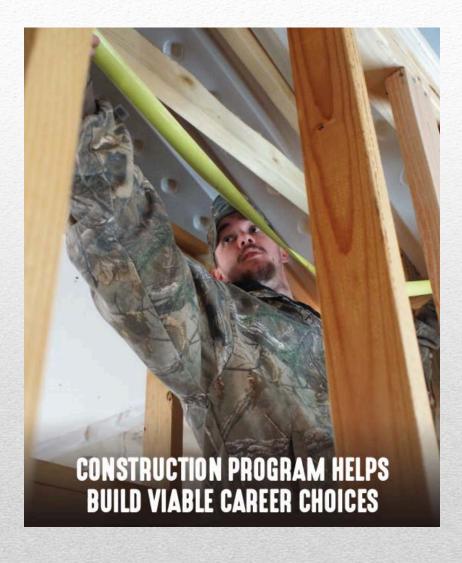




























SIGNS OF SUCCESS COCHISE COLLEGE PROGRAM FEEDS SKILLED STUDENTS TO LOCAL DEALERSHIPS

Cuccein in education has numerou Sefinitions.
When students find a future profession after investing years in their education, that's success.

When local beatnesses hire graduates and invest in new technology to keep pace with the industry, that's success. When a program needs more space and

plans for the construction of a new facility, that's another sign of success. By these measures, the Automotive

Technology program at Cochise College is a complete success.

Currently located at the southeast corner

of Highway 92 at Bushy Drive in Sierra Vista, the program has been training students at the facility stree 2012 in light truck and passenger vehicle repairs and maintenance.
But that's about to change.

"We're unticipating that a new facility

will be constructed on the Cochise College campus in Sierra Vista and we hope to move there by August of 2020," said Dr. Bad Flanigan, Dean of Business and Technology at the local community college.

James Krause, chairman of the Career Technical Education department, said the automotive technology program has already reached its student enrollment capacity for the 2019-2020 school year and has "run out of room" at the current facility.
"We offer five classes per semester and we

cap the classroom at 16 students," Krause said. "We also offer daytime and night. classes, but we're still running out of space at

Krause said graduates of the program are "working all over town," at local dealerships. in automotive parts stores and in repair

shops.
"This program has a diese working. relationship with local businesses." Knause said. "We get a lot of good, positive feedback on the program from the community," he

The property where the existing program is offered was provided by Sean and Kate Lawley, operators of numerous dealerships in Sierra Vista and other area





communities. Prior to their acquisition of the site, it was the location of the Ideal dealership. Dr. J.D. Battweiler, president of Cochise College, said use of the property was effectively "donated" and facilitated the development of the automotive

technology program.
"We can't say enough to appreciate the

wided by the Lawleys to the college," Dr. Rottweiler said. "Their goodwill has made a significent positive impact that has benefited the entire community. Dr. Bottweiler also praised the efforts of

State Sen. David Gowan, who worked to secure special funding in the 2019-2020. state budget for community colleges, and



specifically for Cochine College. "Sen. Govern was able to designate about \$3.1 million in the state budget for the college that we plan to use a portion of for the construction of the new facility on campus," Rottweiler said.

Krusse said the new facility will provide more space for more students and allow the program to continue growing. He added that much of the state-of the art equipment in the existing facility will be moved to the new facility when it's available.

"It will basically double our usable shop space and provide enough dissesses space we can offer the program all in the same building," he said. Students can earn a certificate when

complete one year of the Automotive chnology program, or they can earn on sociate degree when they finish the full. two seer curriculum

We have students who have graduated and started working at a local business, and then the owner of that business goes out and buys new equipment to capitalize on what the kids are learning here," Kruuse said. For Cochise College, that's another sign of

Automotive Technology Building



Student Success

- Jacob Staggs
 - DoD Cyber Scholarship
 - Tuition/fees + \$25,000 stipend
 - Guaranteed Internships + Job

Whiz kids show their cyber skills: CyberPatriot competition showcases cyber security

By Jamie Verwys jamie.verwys@myheraldreview.com Feb 2, 2019





COLLEGE INVESTS IN

Por Dan Guilmette, the Cochise College Cybersecurity Program Coordinator, defense is the best

offense. Now in his fourteenth year as the head of the two-year program, Guilmette started his career in computers at a junior college learning data processing on early iterations of a technology that today dominates daily life. He was hired by Cochise College in 2003 and one year later wrote the first degree program in information security. In 2013, the program was modified to a

cybersecurity degree.
"We focus on the defensive side," Guilmette said in a recent interview. "We teach how to defend a network or a computer sys tem and how these attacks happen."

Enrollment has steadily increased in the program, with 186 students declaring cy-bersecurity and networking as their major for the 2017-'18 school year, Guilmette said. Once general education requirements are met, a student has to complete 13 "core" courses to earn their Cybersecurity As-sociate of Applied Science degree from the

Those who successfully complete the pro-gram have a good chance of landing a job, Guilmette said.

have little problem getting a job, but it re-ally depends on what's available in the graduate."

Guilmette said he and other Cochise College officials meet every year with local employers to discuss what's happening in the private and public sectors.

"We're constantly tweaking the program to keep it relevant for employers," he said. "Here, with Fort Huachuca, we're going to be more government-focused, but with this degree, a student doesn't have to work here, the skills are transferrable." Guilmette said a number of graduates are

now working for area city governments, at the fort and for Cochise County. As the program continues to expand, Guilmette said Cochise College has made significant investments in hardware, soft-

ware and additional faculty to provide enough resources for students both in classrooms and online.

classrooms and online.

The three-room suite where the program is based from on the Sierra Vista campus is the first location where equipment doesn't have to be set up and torn down before and after each class, Guilmette said. A recent remodeling has added racks for computer hardware

Two new faculty members have been added to the program and will start this fall.

"Our classes are all 'hands-on,' which is online," Guilmette said. "The investment made the college has allowed us to improve our set up so students can now connect securely and practice and do their assignments using virtual machines."

The improvements put Cochise College

"... in the upper quarter" of schools offer-ing comparable programs, Guilmette said. "The college has put a lot of resources here and we've been frugal in stretching what we have so we can get the most out of

Interest in cybersecurity has grown beyond the college and now starts with kids getting involved in the CyberPatriot program at area middle schools. Guilmette credits the work of Sierra Vista resident Ross Lampert in growing the CyberPatriot program.
"He really got it started and when I got

involved there were three or four teams about five years ago," Guilmette said. "Now we have 25 teams between local middle

for students offered across the country and organized in part by the Air Force Asso ciation. The program features a national During the six years that the program has been organized in Cochise County, two Sierra Vista teams have qualified for the national finals

"It started with about 500 teams acros the country and now it's up to more than 5,000," Guilmette said.

Involvement in CyberPatriot has, in part, fueled more interest in the Cochise College program, Guilmette said. He said there is a genuine enthusiasm among older students

to help younger students.
"We could easily make our degree program 80 credits, increasing it from what it is now at 67 credits, by adding electives," he said. "It just comes down to time. Eventually, with the investment that's been made in online and having more servers, there will be greater flex-ibility for students and we will be able to











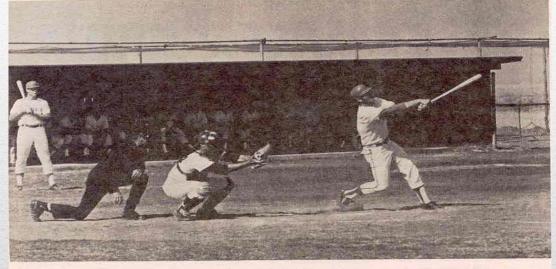






The PEOPLE

- An unwavering Faculty and Staff committed to putting "Students First"
 - Dedicated People
 - Diverse People
 - New People
 - Old People
 - Energetic People
 - Smart People
 - Creative People
 - Innovative People





While Dick Bradley and the CC bench look on, Bo Hall displays the type of talent that made the Roughrider Easter Tourney a successful one for the Apaches. CC placed second with a 4-1 record.



What I LOVE about working at Cochise College

- Innovation = introducing something new
- Innovation = improving an existing idea or process
- Innovation = problem solving
- Innovation = disruption of the Status Quo
 - Any attempt to maintain the status quo is certain to failure

I am the "I" in Innovation

The dogmas of the quiet past are inadequate to the stormy present. The occasion is piled high with difficulty, and we must rise with the occasion. As our case is new, so we must think anew and act anew.

Abraham Lincoln

I am the "I" in Innovation

How do we rethink

- what it means to be educated?
- our degrees and certificates?
- our use of technology?
- our classroom settings and structures?
- the role of the faculty?
- everything?

Innovation – starts with a question:

How do we design a 21st Century Learning Institution...

- that provides Individualized and Personalized Education?
- with no diminishment of Rigor?
- with no diminishment of Quality?
- with no diminishment of Impact Potential (individual and community)?
- built around a population that is **not** operating from a Single Cultural Model?
 - <u>not</u> a single socio-economic set of assumptions

Innovation – starts with a question:

How do we modernize fast enough....

- to capture the breadth of Student Energy?
- to capture the breadth of Learning Modalities?
- to capture the breadth of Intelligence Types?
- to capture the nature of Ubiquitous Information and Communications?
- to find ways to teach and educate in Adaptive and Active formats?
- to keep our County, State, and Region vibrant and economically healthy?

Innovation – starts with a question:







OPPORTUNITY YOUTH

Percent of 16-24 year olds in

Arizona that are NOT going to

school or working.

POST HIGH SCHOOL ENROLLMENT

Percent of Arizona high school graduates who enrolled in postsecondary education the semester after graduating from high school.

53% GOAL 70% | → GOAL 60% | >

ATTAINMENT

Percent of Arizona residents 25-64 years of age who have completed a 2- or 4-year degree or received a postsecondary certificate.

Innovation = Problem Solving:

- Mission
- Vision
- Values
- Purposes

Innovation = new/improved/reaffirmed

- I have to be willing to consider new ideas
- I have to be willing to act on those new ideas
- I have to recognize new possibilities
- I need to be willing to change.

In the End...I am the "I" in Innovation

Cochise College provides accessible educational opportunities that are responsive to a diverse population and lead to constructive citizenship, meaningful careers, and lifelong learning.

College Mission