An Abundance of Isotopes
New Instrumentation for Isotope Researchers

Research Development Strategies

faculty GRANTS program
2016 Grant Awardees

BUILDING entrepreneurship
Northern Arizona Center for Entrepreneurship and Technology

redefining HOME
Exploring the Navajo New Lands
Welcome to Outcomes, the newsletter of NAU’s Research Enterprise. Published by the Office of the Vice President for Research, Outcomes is dedicated to delivering the latest in exciting research and scholarly activity across campus.

**NAU Research:**
*Expanding the Boundaries of Knowledge*
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Research is a vital part of NAU’s mission. As many of you know, our research “performance” is measured by research metrics—both under the Arizona Board of Regents’ Higher Education Enterprise Plan as well as under the Carnegie Classification of Institutions of Higher Education™ system. Expectations for NAU are that we retain our designation as a “high research” university under the current system and as the next set of national research classifications are established. Accordingly, we are developing strategic approaches to ensure that our research enterprise can play a key role in NAU’s regional and statewide impact in the coming years.

Part of this strategy is to recruit “high research” scholars to Arizona and NAU. By doing this, we increase NAU’s research capacity in a number of ways. First, these individuals bring successful, extramurally-funded research programs to NAU, which, of course, automatically increases the volume of research activity at the university (as measured by research expenditures—the primary research metric used by research universities to measure research performance). Also, because we are recruiting scholars who bring complementary (and not duplicative) research programs to NAU, these “high research” recruitments increase opportunities for interdisciplinary and collaborative research between and among the new and existing NAU faculty. Moreover, these new faculty bring with them not just their labs and their grants, but also collaborators from their research network, which reach not just back to their previous institutions, but nationally and internationally as well. Of course, all of this generates new research training opportunities for undergraduate and graduate students.

Another approach we have taken to “grow research” at NAU is investing in research centers as a way to focus resources in promising areas. For example, recent investments in the Centers for Bioengineering Innovation (CBI) and Ecosystem Science and Society (Ecoss) have already generated significant returns in the form of extramural research funding, faculty recruitment and expanded research capacity in the sciences. In order to leverage these opportunities campus-wide, we have revised the NAU research centers policy so that departmental faculty can collaborate on—and departments can benefit from—interdisciplinary research projects with center-based personnel.

We are also looking at increasing the number of interdisciplinary PhD programs at NAU as a strategy for developing research capacity. With such programs in place, we will be more competitive in faculty, post-doc, and student recruiting as well as in attracting extramural support.

These and other strategic investments are key to NAU’s continued growth. In tight budget times, we still need to support research growth. We believe we are doing this wisely and in sustainable ways.

William Grable
Vice President for Research
An Abundance of Isotopes: New Instrumentation Open to Isotope Researchers Across Campus

Isotope researchers rejoice: Mary Reid, Professor of the School of Earth Sciences and Environmental Sustainability, was recently awarded funds by the National Science Foundation (NSF) for a multicollector-inductively coupled plasma mass spectrometer (MC-ICPMS). The instrument, acquired under the highly competitive Major Research Instrumentation Program (MRI) at NSF, will be housed in a multiuser facility open to all faculty in the summer of 2016.

“This is the instrument to have if you want to be able to look across the entire periodic table,” Reid says, explaining that the MC-ICPMS is unique in its ability to measure the abundance of isotopes across a wide range of elements. Also new is the ability to introduce samples with a laser, which allows for precise spatial control and essentially eliminates arduous (and, in the case of those who use hydrofluoric acid to dissolve and separate a specific element, often dangerous) sample preparation. Reid plans to hire a full-time technician to help researchers make the most of the new instrumentation.

Reid hopes that these features will make this technology more accessible for people across disciplines. “Geologists, foresters, biologists—it’s absolutely open to everyone,” she says. “It’s an opportunity to build new areas of research at NAU.”

The MC-ICPMS allows researchers to measure the different abundances of isotopes, which change through radioactive decay and other processes. For example, an archaeologist may measure the abundances of strontium isotopes in teeth or pottery to determine migration patterns because sources of nutrients or clay can differ isotopically. It’s not all radioactive decay, however; the relative abundances of some isotopes are temperature dependent, which can be useful for geologists studying climate change. Measuring isotope abundancies also informs researchers about biological pathways. Because some processes prefer one isotope over another, this allows researchers to learn about the nutrients taken up by different organisms.

“People are now starting to use this to look at things like cancer,” explains Reid. “Soon, they might be able to predict how well we’ll respond to cancer treatment based on the way our bodies separate between the isotopes of some of our nutrients.”

“With the new multiuser facility for the MC-ICPMS, I hope to get people talking to each other in ways they haven’t been talking to each other before,” Reid says. “NAU is in a really unique position. I look around at my colleagues here and I think, ‘This really is a gem.’ Collectively, we make this a better university and a better place to be.”

For more information about the MC-ICPMS, please contact Mary Reid at (928) 523-7200 or Mary.Reid@nau.edu.

Above: a multicollector-inductively coupled plasma mass spectrometer similar to the unit coming to NAU.
Left: Mary Reid
NAU students from minority, rural, and low socio-economic backgrounds now have the opportunity to travel to one of six foreign research sites under the NAU Minority Health and Health Disparities International Research Training (MHIRT) program, a $1.25 million grant awarded by the National Institutes of Health (NIH) to Leslie Schulz, Executive Dean of the College of Health and Human Services and Catherine Propper, Professor of Biological Sciences.

NAU was one of nineteen institutions awarded the MHIRT grant in 2014, a group that included Johns Hopkins and Harvard. “We’re in very good company with this award,” says Schulz, whose experience heading a MHIRT at the University of El Paso several years ago prompted her to explore the possibility at NAU with the help of Technology and Research Initiative Funds (TRIF) from the Office of the Vice President for Research.

The NAU MHIRT is unique in that it is one of the only programs nationally to focus on Native American students. “There are so few Native Americans involved in research in the sciences,” Schulz says, citing a gap that NAU is determined to bridge.

The numbers are troubling: though underrepresented in research, Native Americans and other indigenous populations throughout the world are disproportionately affected by diseases like diabetes and cancer. What’s more, these health disparities are strikingly similar no matter where you go. “Indigenous peoples throughout the world have a common profile of disease. Australian aborigines have exactly the same profile as Native Americans—right down to suicide, depression, alcoholism, the whole thing. That’s the case in South America, it’s the case for the Pacific Islanders, and it’s the case for the Maori in New Zealand,” says Schulz. “But no one knows why that’s the case.”

Schulz hopes that by bringing more Native Americans into health research, programs like MHIRT will catalyze a generation of scientists committed to tackling this global mystery. “Our goal is to educate our students on the fact that there are similar health disparities in other indigenous groups,” says Schulz. “We want to create a population of indigenous people throughout the world who are interested in examining what creates the kinds of health disparities they experience.”

Students have the chance to travel to research sites in Indonesia, Malaysia, New Zealand, the Philippines, Palau, and Myanmar. Shelby Delgai, a Biomedical Science major from the White Mountain Apache and Navajo tribes, was a sophomore when she traveled to New Zealand to study health disparities in the Maori tribe. She was amazed by similarities she found between the Maori culture and her own.

“I felt I could relate to them because their ceremonies and language reminded me of my own culture,” she says. “I was able to connect with the struggles their people face, because they are so similar to the struggles the Native American population faces.”

Delgai recalls feeling nervous before the start of the program because she had no previous research experience. However, the intensive two-week training classes on research methodology, statistics, ethical conduct, and Institutional Review Board (IRB) practices prepared her and her colleagues for a summer—and a lifetime—of research. “Everyone had different backgrounds and experience levels which allowed us to learn from each other and help one another succeed,” she says. “I would definitely recommend this program to any student interested in pursuing a science-related career, especially minority students.”

Shawn Clavell, a doctoral candidate in the Physical Therapy program, traveled to New Zealand to study the relationship between cortisol, insulin sensitivity,
clavell. “the mhirrt program has encouraged me to be an admirable representative of my community through service and scientific research.”

the intensive training is just as transformative to the young scientists as the international experience is. “they gain a lot of experience,” says schulz. “it’s a lot of effort that goes into those few students, but you see these huge changes: students who thought they had their plans for their future, and then came back and thought, ‘you know, that’s not really what i want to do—i want to go into public health.’ it’s an eye-opening experience.”

mhirrt is much more than a ten-week study abroad experience—schulz and her team strive to maintain a close mentorship with the students long after they return, encouraging them to participate in health disparity research. “we expect them to go to graduate school, or medical school, or some sort of research institution,” she says. “we plan to follow them for the rest of their lives.”

for more information, please contact kathleen freel at kathleen.freel@nau.edu or mhirrt@nau.edu.
The 2016 Faculty Grants Program awardees are:

**Jane Armstrong** *Aphasia: Neurological Disease in Text and Image* - In collaboration with nationally recognized painter Christopher Kane Taylor, this project will create a series of five text-based paintings that will attempt to express the effect of aphasia (a neurological condition in which an individual loses the ability to express or comprehend language).

**David Auty** *Nondestructive acoustic assessment of wood stiffness in small-diameter ponderosa pine* - This project will provide important information about the suitability of the small-diameter timber resource in northern Arizona for structural or nonstructural products using a portable acoustic tool to make a preliminary assessment of the variability in dynamic wood stiffness.

**Jaime J. Awe** *Lasers in the Jungle: Ground-Truthing LiDAR Data and Ancient Maya Landscape Modification in Belize* - This project will allow the researcher to ground-truth newly acquired LiDAR data on prehistoric settlements in the Belize River Valley by physically confirming apparent archaeological sites and other features in the region.

**Stephen Brown** *Interval Pairing and the Tonnetz in a Twelve-Tone Context: Webern’s Variations for Orchestra, Op. 30* - An innovative use of the Tonnetz model will investigate interval pairing in Webern’s Variations, shedding new light on one of the most significant composers of the twentieth century.

**Paul Donnelly** *Reconstruction and Translation, with Philosophical Commentary, of Nietzsche’s Original Will to Power* - This collaborative project (PI Paul Donnelly, co-investigators Astrid Klocke and Jason BeDuhn) reconstructs and makes available in a new English translation everything that Nietzsche had composed and intended for inclusion in “The Will to Power.”

**Frederick Gooding** *Black Federal Workers in the Nation’s Capital* - This study will examine the work-lives of black federal employees and their efforts to improve their status over several decades, completing archival research for a book manuscript project.

**Robert Goodman** *Protecting the past with presence: Mindfulness* - Preliminary evidence suggests that mindfulness -- an open, receptive attention to present experiences -- may facilitate memory performance. This project will extend current research to further examine the effects and possible mechanisms of mindfulness on memory performance.

**Zsuzsanna Gulacsi** *Diagrams, Analytical Line drawings, and Digital Reconstructions for a Book on Ancient Religious Art* - This grant will facilitate the publication of MANI’S PICTURES: The Canonical Paintings of the Manichaean from 3rd-century Mesopotamia to 17th-century China, published by Brill.

**Ricardo Guthrie** *The digital future of black journalism: a survey of African American newspapers in the west* - This project will update survey research on Black newspapers from the 1970s-1990s, focusing primarily on 18 West coast papers, and evaluate their strategies for survival compared to larger regional papers.

**Edward Hood** *English Translation of “los gallos de san esteban”* - This grant will allow for the completion of an
program


James Leve Of [Sound] Mind, Voice, and Body: Disabilities in Musical Theater - The culmination of this research will result in the first booklength study of disability as it is manifested, negotiated, and constructed in American musical theater.

Gerrick Lindberg Computational optimization of polymer electrolyte - This project will comprise fundamental chemical studies to reveal how fuel cell performance depends on the molecular composition of systems utilizing fuel cell technology.

Luke Maring What’s the Problem with Political Authority? - This research will use speech act theory to juxtapose the unproblematic ways that ordinary people give duties to one another with the way that governments purport to give duties to citizens.

Sharon Moses Archaeological Exploration of African Slave Beliefs and Magic Ritual Practices along a Plantation Slave Street in South Carolina - Based in the Yawkey Wildlife Center in South Carolina, this project investigates slave activities in and around the slave cabin sites and along the slave street that involve indigenous rituals and magic practices.

Ryan Porter Seismic Insights into the Basaltic Volcanism of the San Francisco Volcanic Field - To improve our understanding of the eruptive processes and the geodynamics driving large basaltic volcanic eruptions, this project will utilize previously-collected seismic data from the San Francisco Volcanic Field to analyze its subsurface structure.

Mary Anne Reynolds Palliative care needs of adults (20-59) diagnosed with advanced heart disease: a pilot study - This pilot study will use a descriptive exploratory research design to generate quantitative and qualitative descriptions of the unique needs of young and middle aged adults with advanced heart disease.

Donelle Ruwe The gendering of romantic aesthetics in books for children - Forming the basis for a new monograph, “The Gendering of Romantic Aesthetics in Books for Children,” this project intends to anatomize different modes and genres of Romantic children’s literature and reveal them to be sites of engaged aesthetic debate.

Melissa Santana An Investigation into Where BIM technology is - The purpose of this study is to survey undergraduate interior design and interior architectural programs to evaluate where in the degree cycle this technology is being taught.

Aaron Smith Climate change over the last 40,000 years: Stenomorpha darkling beetles and desertification - Preliminary research on the diversity, relationships, biogeography, and Quaternary record of Stenomorpha will be conducted that will have implications for understanding the effects of the desertification of western North America on its endemic insect fauna.

Michael Smith Multibeam sonar mapping of a submarine canyon to track gravel from the mountains to the deep sea - The goal of this project is to acquire a high resolution map of the bathymetry of the Delgada submarine canyon, which lies offshore of the King Range in northern California.
When Bob Marley and the Wailers laid down the opening track on Burnin’ in a Kingston recording studio some four decades ago, they likely had little idea how far their simple, straightforward tune would resonate, becoming an enduring international anthem for human rights.

Such is the power of music. Since the earliest rhythms emerged and evolved into this most universal of creative expressions, music has moved us. From Beijing opera to the Vienna Philharmonic, from Bamako blues to Chicago house, from raga to raï to township to dubstep, music transcends borders and connects with some primal beat within all of us. Even when we are not listening, music is often playing over in our minds – a soundtrack to our thoughts.

The music we enjoy today comes from the inspiration and hard work of thousands of creative people around the world – singers and songwriters; musicians and publishers; producers, arrangers, engineers and many others. Its breadth and variety results from an unprecedented accessibility to musical genres and styles – all at the tap of a screen – that brings us new hybrid forms almost daily. And the technologies through which we access music change almost as quickly – as do the business models that support them. Downloading or streaming, purchase or subscription, direct sale from creator to consumer – all options are on the table.

What is the future of our relationship with music? How will it be created and disseminated? How will we listen to it? And how will we ensure that all those involved in bringing us this universal pleasure can make a living from their craft? Join us on Facebook to explore some of the changes shaping the music industry today, and hear from those intimately involved in the business of making music about how they see the future. Whether your tastes run to K-pop or hip hop or the late string quartets, join in the conversation. Get up, stand up. Stand up for your music!

April 26 is World IP Day 2015

April is World Intellectual Property Month at NAU!

Featured School of Music Events in April, 2015

(For a complete list of events featuring the faculty and students of the NAU School of Music, visit nau.edu/music/events.)

Friday-Sunday, Apr. 3, 4, and 5, NAU Opera Theater and Symphony Orchestra performs the Marriage of Figaro, Ardrey Memorial Auditorium, times TBA, $ Admission.

Wednesday, Apr. 8, the School of Music Faculty Artist Series presents an Elden Brass and Organ Recital, Ardrey Memorial Auditorium, 7:30 p.m., Free.

Sunday, Apr. 19, the School of Music Student Artist Series presents a composition recital by Caleb Westby, Ardrey Memorial Auditorium, 11:30 a.m., Free.

Sunday, Apr. 19, NAU Chamber Orchestra Concert, Nativity of the Blessed Virgin Mary Chapel, Flagstaff, 3:00 p.m., Free.

Tuesday, Apr. 21, The School of Music Honors Recital, Ardrey Memorial Auditorium, 11:15 a.m., Free.

Friday, Apr. 24, NAU Percussion Ensemble Concert, Ardrey Memorial Auditorium, 7:30 p.m., Free.

Saturday, Apr. 25, NAU Vocal Jazz Night, Ardrey Memorial Auditorium, 7:30 p.m., Free.

Sunday, Apr. 26, Spring Festival of Choirs, Ardrey Memorial Auditorium, 3:00 p.m., $ Admission.

Tuesday, Apr. 28, NAU Jazz Ensembles Concert, Ardrey Memorial Auditorium, 7:30 p.m., Free.

Wednesday, Apr. 29, NAU Wind Symphony Concert, Ardrey Memorial Auditorium, 7:30 p.m., $ Admission.
Among the factors challenging the status quo are:

- Expansion of overall research capabilities
- Novel bioscience, biomedical and genetics explorations
- Emphasis on undergraduate research programs
- Upsurge in Scholarship of Teaching and Learning (SoTL) research
- Distance learner research
- Growth in on-line and internet research

These positive trends are expected to continue as NAU strives to increase research expenditures to $43.6 million by 2020. To meet these new challenges, the IRB Office will continue to evaluate our tools and processes to improve the researcher experience and ensure protections for human research participants.

An ongoing program to update researcher templates resulted in the development of a simplified, more approachable Informed Consent document, an On-line Consent for internet-based methods, and a revised Amendment form. In addition, a robust IRB Application that accommodates a broader range of research endeavors and also offers researchers helpful guidance as they complete each section is being Beta tested.

The IRB Office is also tackling improvements to researcher training materials and outreach programs. An Application Completion Tutorial has been posted on the IRB website, and in-class training presentations have received a makeover. BBLearn is being explored as an alternate training delivery method.

Changes in NAU’s research environment have also demanded adjustments to the way the IRB reviews research proposals. To enhance compliance, a more thorough review process has been implemented that emphasizes comprehensive application content with an increased focus on informed consent and data security elements.

The IRB Office is committed to the advancement and expansion of human subjects research at NAU. To learn more about the coming changes, please call the IRB Office at (928) 523-9551.
With an adjustment to the name and new leadership, the Northern Arizona Center for Entrepreneurship and Technology (NACET) is rapidly evolving to support regional innovation. With Annette Zinky at the helm, the organization is focusing on entrepreneurs and growing companies with an end goal of job creation. A new business accelerator facility under construction, scheduled for completion in July, is a physical reminder of the organization’s focus.

NACET connects with entrepreneurs and businesses in four ways - through networking groups like the Women’s Innovation Network and soon-to-be-launched CEO peer roundtables; via the Small Business Development Center (co-managed with the Greater Flagstaff Chamber of Commerce); at the business incubator, which helps businesses grow through the start-up stage; and finally through the new accelerator facility. Annette Zinky, NACET’s President and CEO, explains how the accelerator will continue to move the goals of NACET forward. “The accelerator focuses on ‘stage two’ companies, which are usually already in revenue, but growth may be too fast, or revenue may not be predictable enough for them to be completely independent. These companies get strategic assistance to help them stabilize and take root in Northern Arizona, while growing beyond ‘local,’” she says. T. Paul Thomas, an experienced entrepreneur and NAU faculty member, heads up the new accelerator programs (sidebar).

While less than half of all business ventures remain viable after the first four years in operation, NACET clients and “graduates” succeed at a substantially higher rate; 78% of businesses working with NACET are still operating successfully at the four year mark. Zinky highlights Roots Composting, which grew out of the NAU Student Incubation program, LaunchBox, a graduate research project funded through TRIF. “They produced a fantastic product and immediately sold out of it and began plans for expansion. After their year in the student program they joined the main NACET incubator. They continued working with our mentors, executives in residence, and their main NACET business advisor, Trish Rensink, and through tenacity, resilience, hard work and an excellent product, they finalized a deal with Good Earth Power that keeps them working in the business they created, and creates more jobs for others as they grow. It’s a fantastic recent success story that shows how well our partnership with NAU works!”

Annette Zinky, NACET’s President and CEO
T. Paul Thomas came to NAU as a first generation college student. He quickly found himself overwhelmed, but the guidance and support of faculty set him on a path to success. He has returned to Flagstaff both as an Executive in Residence and Assistant Professor of Practice in the W.A. Franke College of Business, and as the Chief Entrepreneur for NACET’s new business accelerator. After spending years developing, guiding, and leading large organizations, Thomas is excited to pursue a different challenge in Flagstaff - helping students and businesses grow and succeed. After a career spanning from tech giants like Apple to the non-profit Komaza, which helps Kenyan families create a meaningful livelihood growing and harvesting trees, Thomas is fascinated by the work needed to promote success in Northern Arizona. “Being a teacher is a lot like being a parent. Helping companies grow can be the same - finding the right time and way to give guidance, then getting out of the way,” he explains.

While Flagstaff may seem distant from the entrepreneurial buzz Thomas left behind in Silicon Valley, he sees similarities and feels the differences can be used as an advantage. “Flagstaff has a special appeal. That means there are amazing people here with substantial experience, just keeping it quiet and enjoying the lifestyle. I want to connect those people to our growing population of entrepreneurs,” says Thomas.

The idea of being a hub for a network of seasoned and novice entrepreneurs is the driving force behind the development of the new business accelerator program at NACET. The accelerator will allow companies trying to move beyond the startup phase to tap into regional resources and receive guidance from those who have already achieved business success. Although the new building under construction will provide a physical location for such companies, Thomas feels the process is the key. “When it comes down to it, it’s not about the space. We want to create an experience that facilitates job growth and entrepreneurial success. The space simply creates breathing room for these ideas to happen.”

Thomas and Annette Zinky, head of NACET, agree that Flagstaff is the right location for promoting entrepreneurship. According to Zinky, “So many scientists, engineers, entrepreneurs, executives, and creative people who could live anywhere in the world, choose to live here. We have all of the necessary ingredients for a booming startup culture, and we’re all beginning to row in the same direction now. It’s fantastic to experience, and I’m excited that NACET can be part of driving that culture of innovation.”

More details on the programs offered and organizations within NACET can be found at NACET.org
In 1974, hundreds of Navajo families were ordered to relocate from contested land reallocated in a federal court settlement.

Over 400 families elected to move to an area in northeastern Arizona referred to as the “New Lands.” Thirty years later, led by independent journalist Shelley Smithson, a group of faculty and students from the NAU School of Communication developed a project to explore the journey and new lives of these families.

Over the course of six months and six trips to the New Lands area, teams of faculty and students collected stories and photographs from the families to document the move and long-term impacts of the change. This resulted in both a public display - “Dislocated: Stories from the Navajo New Lands” - as well as a website and video footage. The website, which highlights stories, images, and video from the project, may be viewed at navajonewlands.com. The public display, including video footage, was first housed in the NAU Native American Cultural Center and is now being moved to the Nahata Dziil chapter house before traveling to other venues.

The project created hands-on experiences for students in journalism, photography, and videography. Students were also closely involved in the development of the website and creation of public display materials. Peter Friederici, Associate Professor of Journalism and Principal Investigator on the project, noted that the project posed new challenges for faculty as well. Pursuing content in a remote area with a large team, developing local connections, and accurately documenting the experience of the rural, Navajo community required extensive background work and logistical oversight by the researchers.

Arizona Humanities provided financial support for the research and development of the project. For information about the project and display locations, contact Peter Friederici at peter.friederici@nau.edu.
Graduate Poster Symposium 2015
Thursday, April 9 at 3:00pm to 5:30pm
Du Bois Center, Ballroom 306 E Pine Knoll Dr, Flagstaff AZ 86011

Gioia Woods: “Reinvent America and the World: City Lights, Bookstore, and the Cultivation of Subversive Space”
Thursday, April 9 at 4:00pm to 5:30pm
Liberal Arts, 120 700 S Humphreys Dr, Flagstaff AZ 86011

NAU Landscape Conservation Initiative presents, “Kieran Suckling”
Wednesday, April 15 at 7:00pm to 9:00pm
Assembly Hall, 102 925 S Knoles Dr, Flagstaff AZ 86011

ASWI Women’s Leadership Conference 2015
Saturday, April 18 at 8:30am to 4:00pm
University Union Student Admin 1050 S Knoles Dr, Flagstaff AZ 86011

3rd Annual Eco Fashion Show
Monday, April 20 at 6:30pm to 8:30pm
Du Bois Center, Ballroom 306 E Pine Knoll Dr, Flagstaff AZ 86011

NAU Ethic Studies Department presents, “Samy Alim” lecture
Monday, April 20 at 7:00pm to 9:00pm
Assembly Hall, 102 925 S Knoles Dr, Flagstaff AZ 86011

Installation Ceremony for President Cheng
Thursday, April 23 at 2:30pm to 4:00pm
Ardrey Memorial Auditorium 1115 S Knoles Dr, Flagstaff AZ 86011

Undergraduate Symposium
Friday, April 24 at 9:00am to 4:00pm
Walkup Skydome 1701 S San Francisco St, Flagstaff AZ 86011

NAU School of Communication presents, “Flagstaff Youth Media Arts Short Films Screening- Filmmaking for Social Change”
Wednesday, April 29 at 6:00pm to 8:00pm
Cline Library Assembly Hall, 102

NAU Presents: “Because We Remember Them”
Saturday, May 2 at 8:00pm to 10:00pm
Ardrey Memorial Auditorium 1115 S Knoles Dr, Flagstaff AZ 86011
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