



NEWSLETTER

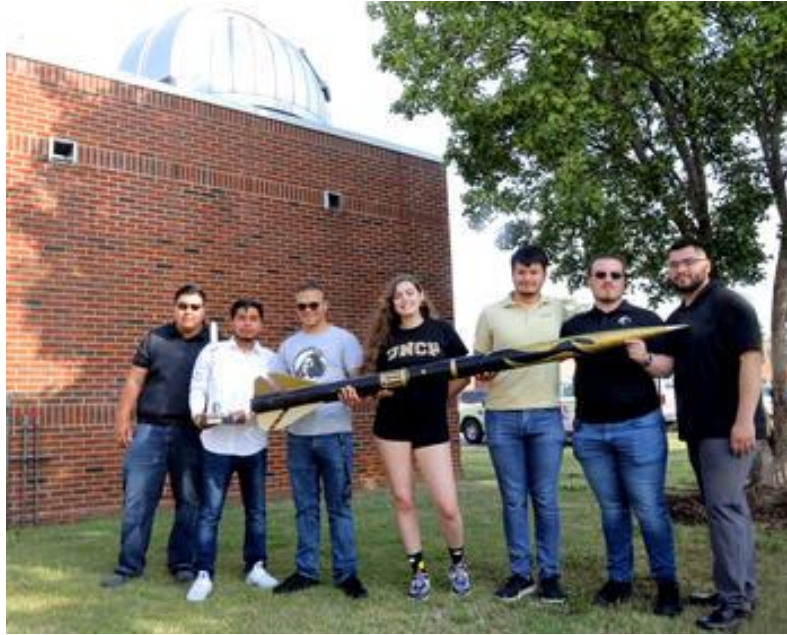
June 2022

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First Nations Launch Announcement: 2022 Champions

Wisconsin Space Grant Consortium is pleased to announce the 2022 NASA Artemis Student Challenge: First Nations Launch winning teams.

2022 FNL AWARD WINNERS								
MOON			MARS			OVERALL		
Written Report			Written Report			Outreach Award		
	1st Place	University of Colorado, Boulder		1st Place	Queens University			Northern Oklahoma College
	2nd Place	University of California, Davis		2nd Place	Northern Arizona University	Altitude Award		
	3rd Place	University of Hawai'i at Manoa		3rd Place	University of Washington, Seattle			University of North Carolina, Pembroke
Oral Presentation			Oral Presentation			Aesthetic Award		
	1st Place	University of Hawai'i at Manoa		1st Place	Northern Arizona University			University of Hawai'i at Manoa
	2nd Place	University of California, Davis		2nd Place	Queens University	Patch Award		
	3rd Place	Navajo Technical University		3rd Place	University of North Carolina, Pembroke			Evie Clark, University of Colorado, Boulder
Grand Prize Award			Grand Prize Award			Nobile Award		
	1st Place	University of California, Davis		1st Place	Northern Arizona University			Queens University
	2nd Place	University of Colorado, Boulder		2nd Place	University of Washington, Seattle	Next Step Award		
	3rd Place	University of Hawai'i at Manoa		3rd Place	University of North Carolina, Pembroke		Rock On!	Navajo Technical University
							Student Launch	Northern Arizona University
						Judge's Award		
								Queens University
						Spirit Award		
								University of Hawai'i at Manoa



The UNCP Rocket Team members are: Mace Velarde (left), Bryan Martinez, Caleb Locklear (co-captain), Sydney Allen, Alex Velarde (captain), Micah Ferguson, Benjamin Savage. Not pictured is Eric Schwartz.

More than 96 students participated in the program, representing thirteen colleges and universities from ten states and Canada. Many congratulations are extended to the teams that overcame challenges to complete this year's competition by traveling to Carthage College in Kenosha, Wisconsin April 22-24, 2022. We thank Carthage College and the amazing team on campus that helped make the launch weekend a huge success; NASA representatives from Headquarters, Office of STEM Engagement, Minority University Research and Education Project (MUREP), Kennedy Space Center, Goddard Space Flight Center, Glenn Research Center, and Jet Propulsion Laboratory; industry representatives from Blue Origin, The Boeing Company, Bonneville Power Administration, Molex, Raytheon Missile Systems, and Sierra Nevada Corporation; the Department of Natural Resources at Richard Bong Recreational Area who allows us to launch rockets; the AISES, Tripoli Rocketry Association, and the National Association of Rocketry Communities; as well as the Space Grant community for their support in making this opportunity available to so many undergraduate students across our great nation.

Congratulations to the winning teams! The Grand Prize award winners will each receive a cash prize. The first-place teams, the University of California-Davis and Northern Arizona University, will be invited to Kennedy Space Center for a VIP tour in August. The Overall Awards were announced at the First Nations Launch Banquet held on April 23, 2022, at the Stella Hotel in Kenosha, Wisconsin. University of Colorado, Boulder, Biomedical Engineering student, Evie Clark, designed the 2022 Mission Patch. She received \$100 plus a framed display of her design. Northern Oklahoma University hosted a Pre-Engineering Workshop, building Estes Alpha Rockets with 30 high school and undergraduate students. The team received a \$500 award to help them continue their outreach efforts in their community.



Congratulations, Dr. Steven Singletary. It is great news both for the University and to the department.

*Thank You for all
you do !!!* Job well done.

Green Card Approval Notice



Devang Upadhyay, M.S.

Biotechnology Research and Teaching Associate

Green card application has been approved.

Congratulations, Devang!!!

We are so happy for you.

Outreach Event – June 21, 2022

On June 21, 2022 Mrs. Felicia Scott worked with 12 Native American Red Springs High School students, who will attend UNCP in the Fall of 2022. She led a science activity in the biochemistry lab. The students performed an experiment titled “We Got Plastic-from Milk”, in which they used whole milk to extract plastic casein. The students were given background information of how casein was used as a plastic in the early 1900’s to 1950’s to produce plastic buttons, jewelry, decorative buckles, and other fine jewelry as well as fountain pens and fancy comb-and-brush sets.

Mrs. Scott gave an explanation that plastics come in all textures and looks. They differ by the molecules they are made of. Plastics were made of tiny, small units called monomers, repeating molecular units. Therefore, plastic was a polymer. Milk contains many molecules of a protein called casein. When we heat milk and add an acid, the casein molecules unfold and reorganize into a long chain. Each casein molecule is a monomer that can be collected and molded into plastic. She explained that this plastic is crumbly and fragile than that used in 1900’s. We would and could not wash it in formaldehyde as Gallatin and Erinoid did.

Students thorough enjoyed themselves, as well as their teachers. Ms. Mya Reeves - Director of India Education Center, supply the materials (milk and vinegar) for this workshop.

Thank you, Mrs. Felicia Scott, for the wonderful work with the students from Red Springs High School. Job well done!! We appreciate all you do for the department, Felicia.

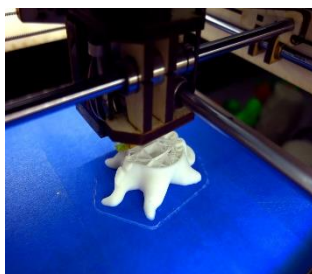
Special thanks to Carolyn Oxendine for assisting Mrs. Scott during this visitation, being available to ensure everything flowed smoothly. It was a success for our 12 new students in the Fall of 2022.



3D Summer Camp

Dr. Steven Singletary worked with ten students for a five-day 3D printing camp. During the camp, students learned to use CAD software, the iterative design process and Ender 3 3D printers. The students designed, printed, and built trebuchet capable of launching ping pong balls several meters. Everyone had a great and fun time.

We appreciate all you do for the University and the department.





at the Beach





Dr. Jose and Dottie D'Arruda, Dr. Tim and Marie Ritter and granddaughter