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Rocket hauls remains, wedding rings into space

New Mexico Education Launch also packs in experiments, home-grown chili



Bob Martin / KROE Television
A suborbital UP Aerospace rocket soars on its May 20 launch, pushing an eclectic mix of payloads to the edge of space on a suborbital trajectory. The rocket carried student experiments, cremated human remains and wedding rings on the short spaceflight.

By Leonard David



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SPACEPORT AMERICA, N.M.— A rocket packed with everything from wedding rings and science experiments to the cremated remains of the dearly departed— even New Mexico home-grown green chili — launched to the edge of space and returned safely on May 20.

The unmanned UP Aerospace SpaceLoft XL rocket roared off its launch pad with payloads-a-plenty from Spaceport America, the country's first purpose-built commercial spaceport under construction near the city of Truth or Consequences.

The New Mexico Space Grant Consortium paid UP Aerospace for their services. This is the 3rd Annual New Mexico Education Launch and is a New Mexico Space Grant funded launch though a NASA program. Spaceport America served

that enabled students to build the experiments that flew, were sponsored by NASA through the Summer of **Innovation** Program.

"It was a perfect flight ... an outstanding day," said Jerry Larson, president of UP Aerospace in Highlands Ranch, Colo. — the company that designed and operates the 20-foot-long rocket.

Record-setting suborbital launch

Altogether, the launch took about 15 minutes from liftoff to landing. Packed in the rocket's payload section were nearly 30 student experiments carried to the [edge of space](#) in canisters that then returned back to Earth via parachute.

"We actually set a record here at Spaceport America ... 73 1/2 miles. This is our highest flight that we've had to date," Larson told Space.com. "It was picture perfect ... everything functioned just beautifully."

The investigations included: a look into magnetic levitation, a sensor to measure radiation levels at high altitude, the measurement of sound propagation through a vacuum and a project to determine if temperature in space has an effect on electrical components.

Other student experiments also included what happens to marshmallows traveling on a rocket, gauging the ph level of yeast grown in microgravity, as well as finding out if AC current can heat up or roast a New Mexico home grown green chili.

Three high school experiments and one community college experiment were supported by New Mexico Gross Receipts Tax revenue, dedicated to supporting spaceport-related

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memorial spaceflight was labeled "the Goddard Flight," offered by the space entrepreneurial firm Celestis Inc. of Houston, Texas.

The flight was named after the father of American space exploration, Dr. Robert Goddard, who performed much of his pioneering aerospace work in New Mexico.

"We had flight capsules from 20 Memorial Spaceflight participants and digital 'star information' from more than 45,000 Name A Star Live customers aboard SL5," Charles Chafer, chief executive officer told Space.com. "All were successfully returned to us by UP Aerospace, marking the 10th Celestis mission to space."

The now recovered Celestis capsules and modules are being returned to family members and loved ones, providing them with a flown keepsake.

Dying wish

According to Celestis, among the remains of those flown into space were ashes of Leonard Majeske, a NASA aerospace engineer who worked for legendary rocket pioneer Wernher von Braun.

Also onboard were remains of Brenda Jean Sartor, a mechanical engineer who suffered from muscular dystrophy. Her physical limitations kept her from reaching a desire to become an astronaut. But as a dying wish, she wanted to send part of her cremated remains into space, according to a Celestis statement.

Celestis worked with the New Mexico Space Grant Consortium and provided matching funds that assisted students to launch their experiments into space.

A 30-year veteran of private sector space **business** development, Chafer said he is ready for "overnight success" status.

"It seems a lot closer than it ever has," Chafer said. "This is true commercial operations. You really see that in the efficiency. It's very impressive, with UP Aerospace, Spaceport America ... the cooperation between them all and White Sands Missile Range. It's the way things are supposed to work."

"This is the start of a commercial project named space wedding rings.com," Lauer said, adding that couples will be able to use a website ordering process to pick from rings crafted by boutique jewelry designers.

Each set of Space Wedding Rings will be assigned a unique serial number and engraved with the SpaceWed logo. The rings will be sold in custom-designed, space-themed packaging and will include a Certificate of Space Flight, as well as a DVD and photo album of the rocket launch.

"Government astronauts have for many years had a private tradition of flying their rings or their spouse's rings with them on their spaceflights," Lauer said. "While it will still be a few more years before private citizens can do this on commercial suborbital spaceflights, our Space Wedding Rings Initiative will give 50 couples planning their weddings right now the opportunity to have the symbols of their marriage fly to space this year and connecting their own wedding vows with the beauty of the Earth as seen from space."

Before the launch, couples will select their favorite set of rings from a catalog. The rings will then be custom sized, ensuring a perfect fit upon their return to Earth.

The cosmic wedding rings will then be flown on future UP Aerospace vehicles or suborbital rockets taking off from Spaceport Sweden, Lauer said.

The Space Wedding Rings Initiative is a project of SpaceWed, a company devoted to the pursuit of **innovative** ideas that combine the concepts of love and marriage with the intrigue and mystery of outer space. Space-flown rings are billed as "cosmic, timeless and unique."

The company's heavenly credo: "Bringing together ... the power of love and the power of the universe."

This story was corrected to reflect the correct sponsor for the SL-5 mission. Leonard David has been reporting on the space industry for more than five decades. He is a winner of this year's National Space Club Press Award and a past editor-in-chief of the National Space Society's Ad Astra and Space World magazines. He has written for SPACE.com since 1999.

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