



For Immediate Release

Contact for Astrobotic: Carolyn Pace

carolyn.pace@astrobotic.com

+1 (412) 682-3282

Contact for Dynetics: Kristina Hendrix

kristina.hendrix@dynetics.com

+1 (256) 713-5453

Astrobotic Selects Dynetics as Propulsion Provider for the Peregrine Lunar Lander

Dynetics will Provide Peregrine Propulsion System for Astrobotic in Multi-Mission Deal

July 17, 2018

Pittsburgh, PA – Astrobotic proudly announces today during the 49th anniversary week of the historic Apollo 11 Moon landing that the company has selected Dynetics of Huntsville, Alabama as the propulsion provider for its Peregrine Lunar Lander.

Peregrine will return America to the Moon for the first time since Apollo and begin delivering customer payloads once a year starting in 2020. Dynetics will integrate Peregrine's main engines and attitude control thrusters, controller electronics, tanks, and feed system into a single system that performs all propulsive maneuvers from cruise to soft landing on the Moon. The Dynetics-led system will feature a propellant with a next-generation oxidizer called MON-25, which has a higher nitric oxide content to provide better thermal capability to operate more efficiently in deep space environments than previous oxidizers. Dynetics will procure the engines from Simi Valley, CA-based Frontier Aerospace, which is under contract with NASA to qualify the engines for lunar missions.

In keeping with Astrobotic's product line philosophy for reliable lunar missions, the company intends to use the Dynetics propulsion system on ongoing Peregrine missions. With this agreement, Astrobotic further solidifies its supply chain for a dependable, low-cost manifest of missions that enables companies, governments, universities, and nonprofits to plan their campaigns of science, exploration, and commerce on the Moon.

"Astrobotic is thrilled to have Dynetics join our world-class team of partners, and this multi-mission agreement stands to propel Peregrine landers for years to come," said John Thornton, CEO of Astrobotic. "With a proven track record of successfully delivering

for NASA and other U.S. Government customers, Dynetics was the right choice for Astrobotic.”

“Dynetics is proud to be partnering with Astrobotic. We are located in the “Rocket City” and our city is known for our years of engineering accomplishments, including landing on the Moon in 1969. Dynetics is excited to build onto that legacy and provide access for commercial customers who want to explore. We stand ready to deliver for this exciting service and help forge a new path forward for America to the Moon,” said Dynetics CEO David King.

Congressman Mo Brooks of Alabama and Senator Bob Casey of Pennsylvania also weighed in on today’s announcement.

“As a child growing up in Huntsville, Alabama, I remember the great pride in America I felt the moment Neil Armstrong stepped from the lunar lander onto the moon in 1969. That was a defining moment in American history and to this day one of mankind’s greatest achievements. More recently, the renewed focus on commercial space exploration and a return to the moon has again sparked pride and excitement among the American people,” said U.S. Rep. Mo Brooks, R-Huntsville. “Like during the Apollo era, much of the work being done to take astronauts to the moon is happening in the Tennessee Valley. I’m very pleased Astrobotic and Dynetics, a homegrown Huntsville company, are partnering to produce the next generation of lunar lander. As Vice-Chair of the House Science, Space, and Technology Committee’s Space Subcommittee, I congratulate these two firms on their partnership, and I look forward to seeing the end result of their work together.”

“Pennsylvania businesses have a long history of leading innovation,” said Senator Bob Casey, D-Pennsylvania.” I’m pleased to see Astrobotic working with Dynetics to put the lunar lander back on the moon. When American companies come together to achieve a goal, they can outcompete any in the world.”



Astrobotic CEO John Thornton and Dynetics Space Division Manager Kim Doering sign the Peregrine Propulsion Teaming Agreement at Astrobotic’s Spacecraft High Bay in Pittsburgh, Pennsylvania.

[Click here for a video of Astrobotic’s Peregrine landing on the Moon with the Dynetics Propulsion System.](#)

###

**About Astrobotic:**

Astrobotic Technology Inc. is a lunar logistics company that delivers payloads to the Moon for companies, governments, universities, non-profits, and individuals. The company's spacecraft accommodates multiple customer payloads on a single flight, offering flexibility at an industry-defining low price of \$1.2 million per kilogram. Astrobotic is an official partner with NASA through the Lunar CATALYST program, has 26 prior and ongoing NASA contracts, a commercial partnership with Airbus DS, a corporate sponsorship with DHL, 12 deals for its first mission to the Moon, and 130 customer payloads in the pipeline for upcoming missions. Astrobotic was founded in 2007 and is headquartered in Pittsburgh, PA.

About Dynetics:

Dynetics provides responsive, cost-effective engineering, scientific, IT solutions to the national security, cybersecurity, space, and critical infrastructure sectors. Our portfolio features highly specialized technical services and a range of software and hardware products, including components, subsystems, and complex end-to-end systems. The company of 1,700 employee-owners is based in Huntsville, Ala., and has offices throughout the U.S. For more information, visit www.dynetics.com.