



COSMIC *Exploring the Universe of Opportunities in the Space Industries* CAREERS

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A PDF COMPANION TO THE AUDIOBOOK

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ONE

PROMISE WITHIN REACH



Photo courtesy of Alan Eustace, taken by Volker Kern on the morning of the successful completion of the highest-altitude skydive ever attempted. The combined weight of Eustace, the suit, chest pack, and parachutes was around 405 pounds.

A DECADES-OLD VIEW OF ASTEROID MINING: RELEVANT STEPS, SHORTER TIMELINE

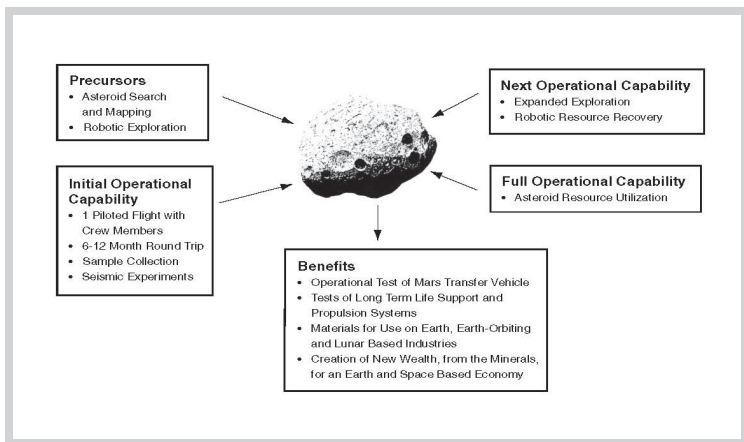
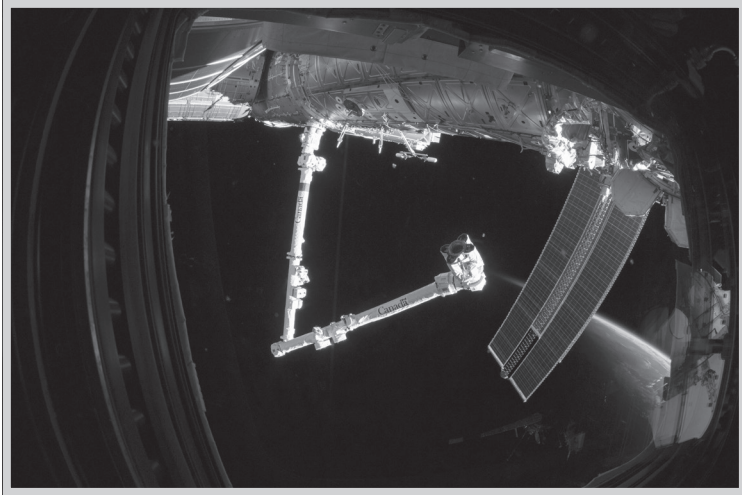


Illustration by Charlie Shaw. Based on data in "America at the Threshold: Report of the Synthesis Group on America's Space Exploration Initiative," US Government Printing Office, Washington, D.C., 1991, p. A-37.

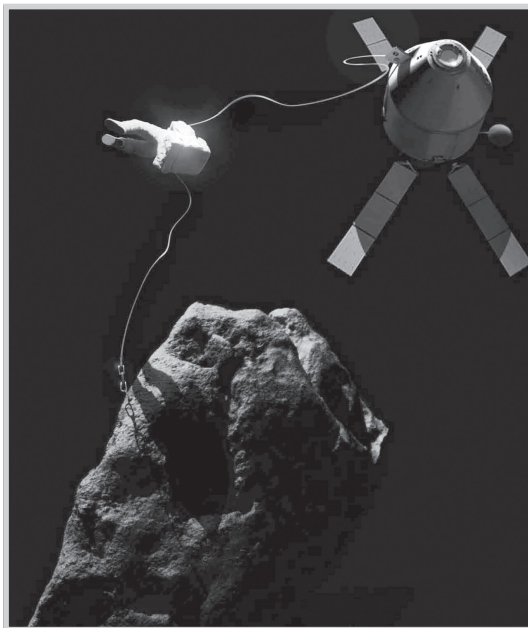
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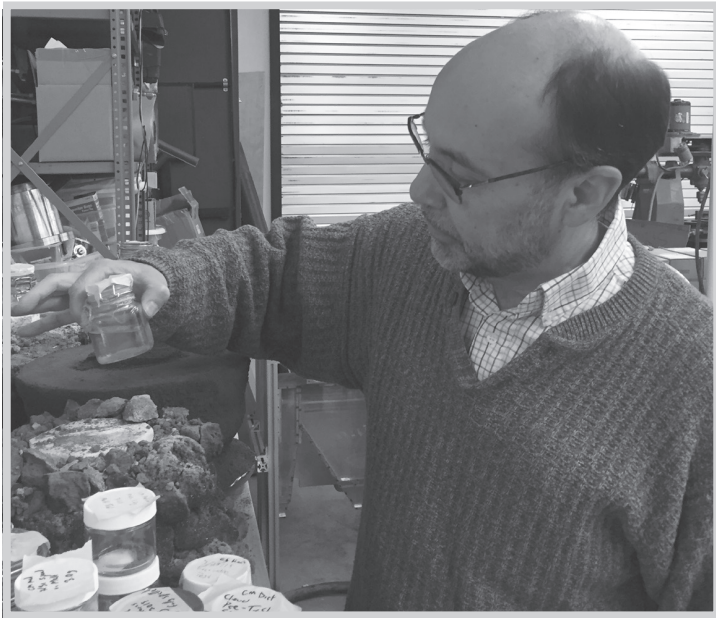
GOING TO WORK IN NEAR-EARTH SPACE



Canadarm2, the International Space Station's robotic arm, as seen by CSA astronaut David Saint-Jacques at sunset. (Photo courtesy of the Canadian Space Agency; credit CSA/NASA) © Canadian Space Agency.

INITIAL CONTACT WITH AN ASTEROID





Dr. Angel Abbud-Madrid, Director of the Space Resources Center, Colorado School of Mines, holding water extracted from a simulated asteroid rock through the process of optical mining.

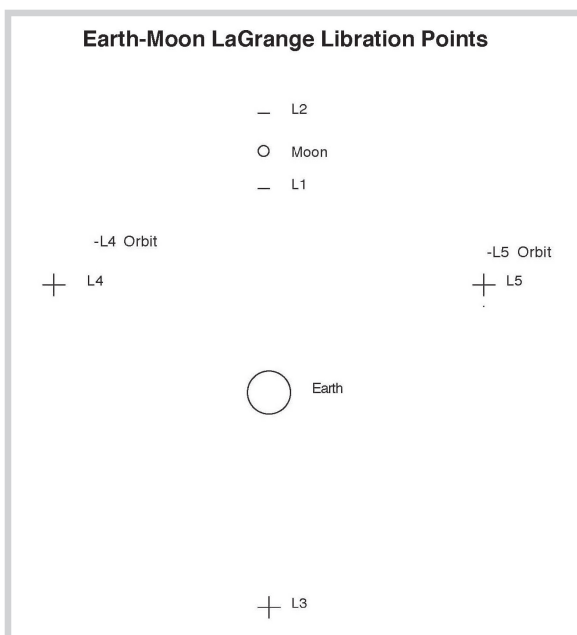


Figure 6.1: LaGrange Libration Points

SEVEN

CONSTRUCTING HABITATS

COLORADO SCHOOL OF MINES PICTURE
SHOWING CAVE-LIKE STRUCTURE CREATED
BY AN ICON 3D PRINTER



APPENDIX A

Sampling of Space-Related Jobs and Careers Referenced

Aerospace composite technician	Machine learning engineer
Aerospace engineer	Mechanical engineer
Archeologist	Metallurgist
Astronaut	Microbiologist
Avionics engineer	Nanotechnology engineer
Avionics technician	Nuclear physicist
Bear biologist	Organic chemist
Chemical engineer	Pharmacologist
Civil engineer	Physician
Computer scientist	Pilot
Conservationist	Public service professional
Cosmochemist	Radiologist
Curator	Remote sensing scientist
Energy manager	Robotics designer
Ergonomic designer	Robotics operator
Exhibit designer	Sewing professional
Geneticist	Software engineer
Geologist	Social scientist
Heavy equipment operator	Space debris collector
Horticulturist	Space suit assembler
	Telemedicine coordinator

Thousands of current positions open in the space industries worldwide are listed on the Space Talent website: <https://www.spacetalent.org/>.