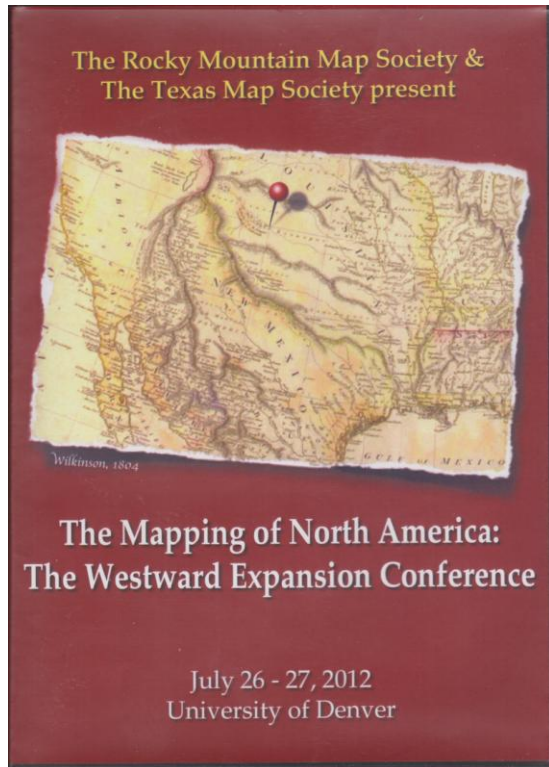


Dr. Angel Abbud-Madrid

Dr. Angel Abbud-Madrid is the Director of the Center for Space Resources at the Colorado School of Mines, where he is also an Associate Research Professor in the Chemical Engineering Department. He has more than 20 years of experience in space related projects, including conducting experiments on a variety of NASA's low-gravity facilities, such as drop towers, parabolic-flight aircraft, the Space Shuttle, and the International Space Station. His current research focuses on the robotic and human exploration of space and the utilization of its resources.



Angel holds a B.S.E. degree in Mechanical and Electrical Engineering from the Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM) in Monterrey, México, and Master's and Ph.D. degrees in Mechanical and Aerospace Engineering from Princeton University and the University of Colorado at Boulder.

His cartographic interests include celestial maps and the mapping of New Spain and Mexico, where he was born and raised a few miles from the US-Mexico border.

Angel was instrumental in developing the program for the Rocky Mountain Map Society's co-sponsored international conference in July 2012 and providing important technical assistance for all of the guest speakers.