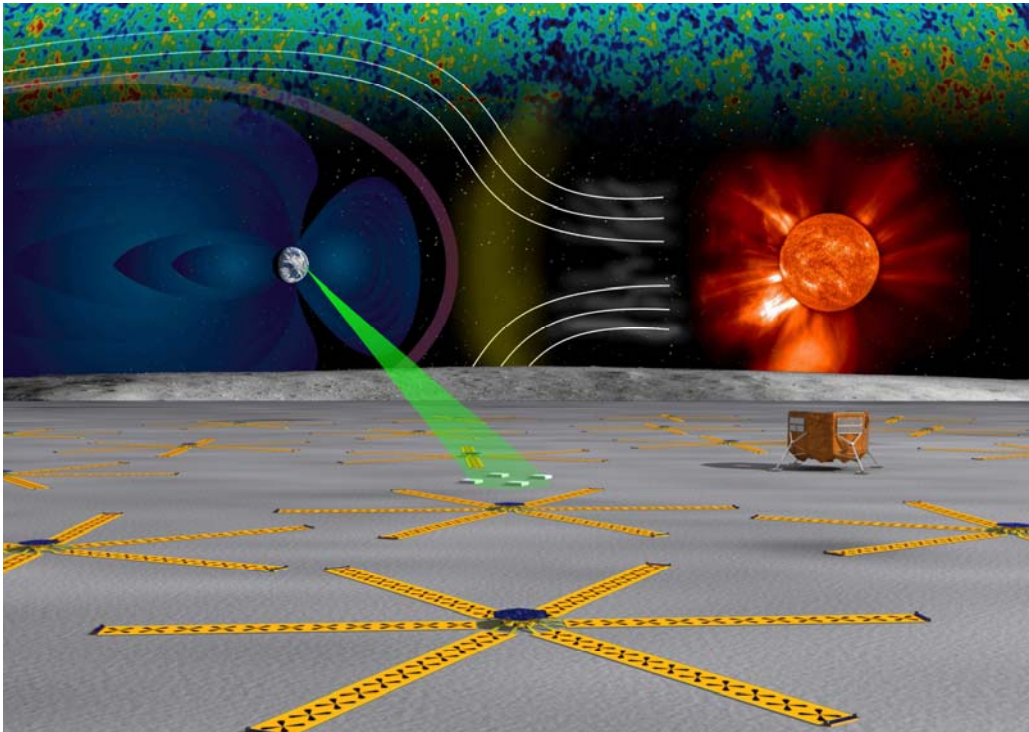


Department of Aerospace Engineering Sciences
K. D. Wood Colloquium

Professor Jack Burns

CASA
University of Colorado

Exploring the Cosmos from the Moon



The NASA Lunar Science Institute at Ames Research Center recently funded 7 new lunar science centers, three of which are in Boulder. One of these centers, LUNAR (Lunar University Network for Astrophysics Research), is dedicated to the study of Astrophysics from the Moon and is headquartered within CASA at the University of Colorado. LUNAR has defined four key projects: Gravitational Physics and Lunar Structure using Lunar Laser Ranging, Low Frequency Radio Heliophysics, a Lunar Radio Array for Cosmology, and the Assessment of Other Potential Astrophysics from the Moon. I will describe these 4 key projects along with an ambitious program of Education and Public Outreach that involves new Fiske Planetarium shows, teacher workshops, undergraduate classes and interdisciplinary graduate seminars.

Wednesday, September 23, 2009
DLC Bechtel Collaboratory
12:15 pm – small lunch served

Brief Biography

Jack Burns is a Professor in the Department of Astrophysical and Planetary Sciences at the University of Colorado (CU) in Boulder. He is also Vice President Emeritus for Academic Affairs and Research for the CU System.

Burns received his B.S. degree, magna cum laude, in Astrophysics from the University of Massachusetts in 1974. He was awarded an M.S. degree in 1976 and a Ph.D. in Astronomy in 1978 from Indiana University.

From December 2001 through 2005 Burns served as Vice President for Academic Affairs & Research for the University of Colorado System. Burns provided leadership in the University's efforts to promote teaching, research, creative work, technology transfer, and public service for CU and to champion ethnic and cultural diversity.

Burns has 345 publications in refereed journals, books, and in conference proceedings and abstracts (as listed in NASA's Astrophysics Data System). His research has been featured in articles and on the covers of *Scientific American*, *Nature*, and *Science*. His teaching and research focus on extragalactic astronomy and cosmology, supercomputer numerical simulations, astrophysics from the Moon, and public policy issues in higher education and science. Burns is director of the Lunar University Network for Astrophysics Research (LUNAR), a \$6.5 million center recently awarded by the NASA Lunar Science Institute. Burns is an elected Fellow of the American Physical Society and the American Association for the Advancement of Science.

Currently, Burns serves as Chair of the NASA Advisory Council's Science Committee and also chairs the American Astronomical Society's Committee on Science and Public Policy. He has served as Chair of the National Forum for System Chief Academic Officers, as a member of the Executive Committees for the NASULGC Council on Academic Affairs and the Council on Research Policy & Graduate Education, as a founding member of the Board of Directors of the National Center for Women and Information Technology, as Chair of the Board of Directors of the CU University Licensing Equity Holding Inc., as a founding member of the Board of Directors of the Colorado Science Forum, and as Chair of the Southwest Regional Space Task Force.

See <http://solo.colorado.edu/~jaburns/Bio.sketch.JB.pdf> for a full biography.