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NASA Ames and Future of Space Exploration, Science, and Aeronautics

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Abstract:

Pushing the frontiers of aeronautics and space exploration presents multiple challenges. NASA Ames Research Center is at the forefront of tackling these issues, conducting cutting edge research in the fields of air traffic management, entry systems, advanced information technology, intelligent human and robotic systems, astrobiology, aeronautics, space, earth and life sciences and small satellites. Knowledge gained from this research helps ensure the success of NASA's missions, leading us closer to a world that was only imagined as science fiction just decades ago.

Bio:

Dr. Jacob Cohen is currently the Chief Scientist at NASA Ames Research Center. In this capacity, Dr. Cohen provides advice and oversight for research programs and serves as the principal Center official in the administration of long term, high risk, and creative/inventive research programs. Dr. Cohen evaluates proposals for new programs, keeps abreast of ongoing work, and establishes priorities to assure that Center research programs contribute effectively to national aerospace and scientific objectives. Dr. Cohen serves as the chief advisor to the Center Director on all areas affecting the science at the Center. As part of his interest in the utilization of space and aeronautics for scientific and technology advancements, Dr. Cohen facilitates and develops international, inter agency, academic and commercial collaborations to sustain new research initiatives. Dr. Cohen serves as the Center representative to the Agency Chief Scientist and the NASA Research Council and is the conduit for the Agency Office of the Chief Scientist at the Center. Dr. Cohen received his Doctorate from New York University in the area of molecular evolution. He then completed a postdoctoral fellowship at Cedars-Sinai Medical Center's Ophthalmology Research Laboratories in the area of viral host relationships. Dr. Cohen has held various research and management positions both in industry and government. Mentoring, teaching and inspiring the next generation of scientists and managers are continuous roles Dr. Cohen pursues.