



Jay Apt's Orbit Experience

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Programs

Orbit: This View of Earth

Astronaut and author Dr. Jay Apt takes you on an exciting tour of Earth as viewed through the photography of NASA astronauts from Earth orbit. Geography, natural change, and change to the planet caused by people are all part of this unique view of Earth. Using many of the stunning photographs from his book *Orbit: NASA Astronauts Photograph the Earth*, Jay Apt shares the experience of looking at Earth in a poetic and emotional way.

Far Beyond the Blue Sky

A stunning visual presentation of the most recent two decades of human space flight. From the dazzling Hubble photographs to radar images of Earth and Venus, from John Glenn's return to space to the construction of the International Space Station, your audience will meet the crews and share the experience. If you want an up-to-the-minute report on the wonders being created in Earth orbit, this is the program for you!

Space Walking & What's it Really Like Up There?

What everyone in your audience wants to know! The human side of spaceflight: how astronauts are chosen, training, the night before launch, going to the launch pad, leaving Earth, working and living in space, overcoming problems, doing a spacewalk, and returning to Earth. Jay Apt has gone into orbit four times, done two spacewalks, worked a score of spaceflights from mission control, and seen crews meeting the challenges of training and flying in space. Perfect for both adult and school-age audiences. This is your personal trip into space!

Incredible Speeds, Incredible Heights, and Beyond – Safely

The rewards of spaceflight are many, and your audience will see the wonders of space and Earth, huge spacecraft outside our window, and life aboard the Shuttle and Mir. But the road to space has been a rugged and unforgiving one. Project Vanguard, the first spy satellites, Mariner 1, Gemini VII, Apollo, Shuttle, Titan, Mars probes and the Ariane 5 all have lessons to teach those who want to learn from failure to avoid repeating it. This program is geared toward any audience for whom the pursuit of excellence is a driving technical goal.

Launch Your Team into Orbit!

Jay Apt has led teams in universities, NASA's space program, non-profit organizations, a large research museum, and start-up technology companies. He weaves these experiences together with the joys of succeeding in challenging tasks in an outstanding talk to motivate all the leaders in your organization to do their best and enjoy the ride! He helps you and your team to realize your full potential when the economy changes by planning and hard work, selecting your team, keeping the details under control, and dealing with macro trends. Of course, he will show you great photographs taken from and in space...that's one of the rewards of building a great team.



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Brief Biographical Information, Dr. Jay Apt

Jay Apt graduated from Harvard in 1971 with a bachelor's degree in physics. He completed his Ph.D. in experimental atomic physics at MIT and in 1976 joined the Center for Earth and Planetary Physics at Harvard, studying the weather on Venus. He later directed the observatory at NASA's Jet Propulsion Lab in Pasadena, and worked in NASA's mission control center in Houston.

Dr. Apt has spent more than 847 hours in space, on four Space Shuttle missions, and performed two space walks. He has been to the Russian space station Mir, and is the recipient of NASA's highest honor, the Distinguished Service Medal.

He is a pilot and aircraft owner with 5,000 hours of experience in more than 25 types of aircraft, sailplanes, and human-powered aircraft. He has flown single-engine aircraft to Greenland, Iceland, Europe, Alaska, and Central America.

An award-winning photographer, Apt shares his images and knowledge of the Earth in *Orbit: NASA Astronauts Photograph the Earth*, published by the National Geographic Society in 1996, and in softcover in 2003. The book has been printed in eleven languages; more than 600,000 copies are in print.

After spending more than 35 days in space, Jay Apt became the Director of Carnegie Museum of Natural History, one of the six largest research museums in the world, where he led a turnaround of the museum's research and public programs. A decade-long decline in attendance was reversed, with solid growth. Modern exhibits and first-class scientific research became the hallmarks of the museum. The museum was named "best museum in Pittsburgh" in 1999. After leaving the museum, he became Managing Director and Chief Technology Officer at a venture capital firm.

Dr. Apt is now a Professor at Carnegie Mellon University's Tepper School of Business and in the CMU Department of Engineering and Public Policy. He is the Director of the Carnegie Mellon Electricity Industry Center and Director of the RenewElec (renewable electricity) project. He has authored over 100 papers in peer-reviewed scientific journals as well as two books and several book chapters. He has published op-ed pieces in the Wall Street Journal, the New York Times and the Washington Post. He is a Fellow of the American Association for the Advancement of Science. He received the Metcalf Lifetime Achievement Award for significant contributions to engineering in 2002.