First International Symposium on Personal Spaceflight (ISPS)

Thursday, October 6, 2005 8:00 am to 4:30 pm
Corbett Center –Third Floor Ballrooms
New Mexico State University
Las Cruces, New Mexico– USA

SPONSORED BY – ARIANESPACE -USA

07:00 REGISTRATION AND BADGES – Corbett Center Second Floor Lobby

07:45 SYMPOSIUM OPENING – Corbett Center Ballroom

CALL TO PERSONAL SPACEFLIGHT – NMSU PRIDE BAND

08:00 OPENING SESSION
President of X PRIZE Foundation – J. Roderick O’Connor

WELCOMING COMMENTS
President of New Mexico State University – Michael V. Martin
Mayor of Las Cruces – William Michael Mattiace
Dean of NMSU College of Engineering – Steven P. Castillo
President Arianespace, Inc.- USA- Clayton Mowry

08:30 PLENARY SESSION
From Aviation to Space — Erik Lindbergh, Aviator/Artist/Advocate
From Government Space to Personal Space — Rick Searfoss, Shuttle Pilot, XCOR EZ-Rocket Pilot

09:10 BREAK — Exhibition Area- Dona Ana Room

09:30 TRACK 1 — Creating the Personal Spaceflight Revolution
Chair Thomas D. Burton
New Mexico State University

Topics: X PRIZE CUP — Taking Dreams to Reality, Panel with Personal Spaceflight Industry

Panelists: Clayton Mowry, President, Arianespace- USA
Jeff Greason, President, XCOR Aerospace
Steven Bennett, CEO, Starchaser Commercial Space Access
Brian Feeney, President, da Vinci Aerospace
Chuck Lauer, Vice President Business Development, Rocketplane, Inc
Pablo de Leon, President, De Leon Technologies
Anhtuan Ngo, Project Manager, Air Force Research Laboratory (AFRL)
Winning of the Ansari X PRIZE by the SpaceShipOne Team provided proof, through multiple flights, that the technology is available in the private sector to support evolutionary development of safe, affordable spaceships, enabling routine flights to and from and through space by the general public. Such developments are underway by privately financed teams around the world and government agencies are continuing to fill the designer's shelves with new technology. These are incremental steps, starting with suborbital flights from single spaceports, progressing to suborbital flights between nearby spaceports and finally to orbital flights and flights between spaceports pairs located halfway around the world. The success of these new space businesses will be dependent on the abilities of the Personal Spaceflight Industry to use existing technology to achieve safe, maintainable, cost effective vehicles. The continued competitiveness of the industry will be dependent on the continued improvements and development of new technologies that will lead to increased safety and lower costs. This Track will explore current and planned activities by industry and in government laboratories supporting new Personal Spaceflight vehicles and technology advances.

10:45 BREAK — Exhibition Area· Dona Ana Room

11:00 TRACK 2 — The Personal Spaceflight Experience

Chair Janet Green
New Mexico State University

Topics:
The Changing Face of Tourism in New Mexico
Suborbital Tourism – Getting Ready for Passengers
Off World Tourism – Experiencing the LEOsphere (Low Earth Orbit)
Off World Tourism – Exploring the LUNAsphere and Beyond

Panelists:
Priscilla Bloomquist, Associate Professor, NMSU
Alex Tai, Vice President Operations, Virgin Galactic
Samuel M. Coniglio, Vice President, Space Tourism Society
David Gump, President & Co-Founder, Transformational Space Corporation, LLC
Timothy Franta, Spaceport Developer, Space Adventures

Humankind’s desire to explore has generated markets associated with adventure travel of which space travel represents the ultimate trip. An enormous public interest exists for space adventures as evidenced by the annual attendance of over 12,000,000 people at space museums, space camps and parks and by international surveys that show a 10 billion-dollar annual revenue potential for space rides, were they available. The trip to the International Space Station by Dennis Tito formally opened the era of Space Tourism and further heightened the desire for space travel by the general public. The flight of Spaceship One further reinforced the reality of the potential for Personal Spaceflight. This Track will address the exciting opportunities that await the Off World Traveler, from experiencing low earth orbit, exploring the surface of the moon, or visiting five star spas in space.

12:15 Luncheon – Corbett Center Ballroom

Introductions and Recognition of Sponsors and Key Personnel

Introductions: Peter Diamandis, CEO and Founder X PRIZE Foundation
Lunch
ISPS 2005 SYMPOSIUM KEY NOTE ADDRESS

Topic: New Mexico — Steward of Personal Space Flight Development
Panelists: Rick Homans, Secretary, New Mexico Economic Development Department

With the winning of the opportunity to host the annual X PRIZE CUP and Personal Spaceflight Exposition the State of New Mexico made the commitment to actively engage in the development of the new Personal Spaceflight Industry with the goal opening space to all people. The uniqueness of Space as a Place is that it is equally close to everyone. A key element of opening space to all people is the network of spaceports that must be developed and operated to service people around the nation and the world. Leading the development of these portals to space with safe, convenient and cost effective operations and sharing these learning experiences is the awesome responsibility that the State of New Mexico and its Department of Economic Development has taken on in its stewardship role for the new space community. This symposium is dedicated to fostering the sharing of experiences in all elements of the Personal Spaceflight Industry and personally involving the participation of general public, without whom the bountiful resources of space will never be realized for the benefit of all mankind.

1:30 TRACK 3 — Space As A Place
Chair Kevin Boberg
New Mexico State University

Topics: Space As a New Economic Sector
Space Markets
Terrestrial Markets
Space Resource Development

Panelists: Tim Pickens, President, Orion Propulsion Inc.
Don Robinson, President, High Altitude Research Corporation
Michael Kelly, Vice President, X PRIZE Foundation
Bretton Alexander, Vice President, Transformational Space Corp.

Space is a place whose infinite opportunities and wealth are awaiting commercial developments to take it beyond today’s exploration stage. Like all frontiers of the past the development of Space will be dependent on the entrepreneurial drive of people coupled with encouraging government policies and supporting infrastructures. For both government and private industry, decisions to undertake new space developments will be based on these ventures being profitable as well as contributing to the security and economic well being of the country. At the end of the day the success of the development of a new frontier is based on the economic returns to the country and communities that supported the pioneering efforts. This Track will explore the future markets, including tourism, space solar power generation, mining and the supporting terrestrial and extra-terrestrial industries and services that will be developed

2:45 BREAK — Exhibition Area- Dona Ana Room

3:15 TRACK 4 — Spaceports: Infrastructure for the New Space Economy
Co-Chair Sonya Cooper Co-Chair Bill Gutman
New Mexico State University Physical Sciences Lab

Topics: Supporting the New Personal Spaceflight Industry
Designing for Safe and Low Cost Operations
Facilities for Training, Education, Outreach and Entertainment
Infrastructure, Site and Design Considerations
Financing Issues
Talking on the Oklahoma Spaceport activities
For the space frontier to become routinely accessible, new gateways must be established that can serve the needs of the space access industry and of the space-faring public. These gateways, better known as spaceports, will become the earthbound hubs of the emerging space-based economic sector. Spaceports will be the links to in-space manufacturing facilities, natural resource exploitation, science centers, resorts, and entertainment facilities. They will become the centers of space commerce and trade. Spaceport-pairs may provide one-hour links between travel points, and global business and vacation travel may undergo a revolution of the type introduced by the “jet-age”. This international infrastructure will require evolutionary as well as revolutionary development. International cooperation between industry and governments will be crucial. Appropriate regulations will be required to govern locations and operations of spaceports as well as the operations and maintenance of the vehicles that will operate from them. In this track papers will be presented on business, technical and regulatory issues involved in the operations of today’s rudimentary spaceports, as well as plans for their expansion and the development of the new spaceports.

4:45 RECEPTION, Milton Hall Patio – Hosted by KRWG TV

For More Information Contact
Joylynn Watkins
New Mexico Space Grant Consortium
505-646-6414