

PANEL I

Ralph Braibanti

Director Space and Advanced Technology, OES, State Department

Mr. Braibanti is Director of the Department of State's Space and Advanced Technology Staff, which handles a broad range of international issues involving the use of outer space. He currently heads the U.S. team engaged in negotiations with the European Commission on satellite navigation systems. He led the U.S. delegation to the multilateral negotiations on building and operating the International Space Station which resulted in an agreement that was signed by fifteen nations in January 1998.

Mr. Braibanti joined the Department of State in 1972. Before transferring to his current office in 1985, he had a number of varied assignments related to Latin America affairs and East Asian affairs. He has worked overseas in the Philippines, Paraguay, and Yemen. Mr. Braibanti holds a bachelor's degree from Duke university and a master's degree from Cornell University's Johnson Graduate School of Management.

Ray Swider

Assistant for GPS Position and Navigation, DASD, Department of Defense

Mr. Raymond Swider (Ray) presently serves as an Assistant for Positioning, Navigation, and Timing in the office of the Assistant Secretary of Defense for Networks and Information Integration (ASD/NII) in the Office of the Secretary of Defense in the US Department of Defense (DoD). He has held this position for over three years. Prior to this, Mr. Swider was program manager for the US Federal Aviation Administration's (FAA) Local Area Augmentation System (LAAS). The LAAS is a GPS augmentation system that enables precision approach and landing for civil aircraft.

The FAA employed Mr. Swider in 1995 after his retirement from the US Air Force. While on active duty, he served as a pilot, intelligence officer, and international political military affairs officer. In this latter capacity, he represented the USAF during discussions and negotiations with the former Soviet Union and Russia on the bases for civil use of GPS and GLONASS. He also held the portfolios for bilateral foreign disclosure of military information for the states of the former Warsaw Pact, Finland, Sweden, Austria, Switzerland, and Ireland.

Mr. Swider holds a BS from the US Air Force Academy, an MS (international security affairs) from the US Naval Postgraduate School, and is a graduate of the USAF's Air Command and Staff College and Air War College. He also attended the University of Edinburgh as a visiting research fellow where he published a study of Soviet military reform efforts.

Lars-Olof Hollner
Head of Transport, Energy, Environment, and Nuclear Matters
Delegation of the European Commission

Date of birth : 20 August 1949

Nationality : Swedish

Married to Ingrid Wretman-Hollner, working within the Swedish Foreign Service. Two children .

CAREER RECORD

1 January 2002- Counselor, Head of Transport, Environment and Energy, Delegation of the European Commission, Washington, DC

1 July –31 Dec 2001 Deputy Head of Unit, US and Canada Affairs, DG Relex, European Commission

Nov 2000- June 2001 Detached to the Swedish EU Presidency. Permanent Representation, Brussels

1996-2000 Principal Administrator, US desk DG Relex, European Commission

1994-1996 Counselor, Swedish Ministry for Foreign Affairs; US and Canada affairs

1990-1994 First Secretary, Swedish Embassy, Washington, DC.

1989-1990 EFTA Secretariat, Geneva, Senior Officer, Trade Policy Affairs

1988-1989 Swedish Ministry for Foreign Affairs, Head of Section

1985-1988 Swedish Delegation to the European Communities, Brussels. Attaché for Trade Policy and Customs Affairs

1983-1985 Swedish Ministry for Foreign Affairs, Head of Section

1976-1983 Swedish National Board of Trade. Head of Section

1973-1976 Economist, Esselte AB

1973 Graduated from the Stockholm School of Economics, majoring in international economics and financial analysis

Military service : Reserve officer, Captain's rank

Vincent Sabathier

Space Attaché, Embassy of France

Mr. Sabathier currently serves as the Representative of the French Space Agency (CNES) in North America and as the Attaché for Space and Aeronautics at the Embassy of France in Washington, D.C. Through his dual roles, which started in September 1999, he focuses on strengthening bilateral dialogue and cooperation with all branches of the United States government involved in aerospace, including the enhancement of international security, burden sharing, data sharing, commercial policy and standard harmonization, and also actively promotes the aerospace educational cooperation program between France and the United States. Mr. Sabathier's other areas of involvement include air traffic management, aeronautics research and development, telecommunications, human space flight, space sciences, space transportation, remote sensing, and navigation via satellite.

Mr. Sabathier is also in charge of monitoring commercial, civil and military space activity in the U.S. and Canada for the French government. He advises the French government and industry, and provides them with ad hoc strategic analysis. In addition, he is the Chief Editor for the weekly electronic publications *France in Space* and *USA in Space*.

Mr. Sabathier began his career in aerospace at the "Direction des Missiles et de l'Espace" for the French military procurement agency, DGA, where he was appointed to the Directorate of Launchers at CNES, in charge of aerodynamic studies for expendable launchers and of the optimization of the Ariane 5/Hermes system. In 1991, he joined the Directorate of Launchers as the lead engineer for the development of the upper part of the Ariane 5 and for the solid booster recovery system. In 1995, he was selected by Arianespace, the world leader in commercial space transportation in Evry, France, to negotiate the production contracts with the European industry and to monitor the launch operations in Kourou, French Guyana, the European Space Port. In 1997, he was named Program Manager for all the follow-on developments financed by Arianespace, including the 100 million dollar program Perfo 2000, and the adaptation to commercial payloads, such as the BSS 702, the Ariane System for Auxiliary Payloads (ASAP 5.) He coordinated the activities of the Ariane Research and Technology Follow-on Program financed by the European Space Agency (ESA), which included implementation of the "test as you fly" approach on the Ariane launchers. During that time, he worked closely with American and European satellite manufacturers. He also initiated a cooperative project with the USA to observe the reentry of space debris.

Mr. Sabathier has written over 50 publications and reports, and has lectured at a wide variety of conferences and symposiums. During a 5-year period he also taught the course "*Space Transportation Systems*" at the Paul Sabathier University in Toulouse, France.

Mr. Sabathier graduated from Ecole Centrale de Nantes in France. Following his graduate studies in France, he obtained a grant from Martin Marietta Astronautics, Denver Division, to study at the Colorado School of Mines, where he also worked as a teaching and research assistant on aerospace materials. He obtained his Masters degree in Material Science in 1990. He later specialized in space systems with the CNES continuing education program at the Ecole Nationale Supérieure de l'Aéronautique et de l'Espace, Toulouse, France.

He holds an International Management degree from ESSEC, Paris, in operational management and participated in the Executive Education Program on "Strategic Issues in Mergers and Acquisitions" at INSEAD, Fontainebleau, France.

Scott Pace

Chief Technologist, Office of Space Communications, NASA

Scott Pace is the Chief Technologist for Space Communications in NASA's Office of Space Flight. He is responsible for advising senior NASA management on technical, programmatic, policy, and regulatory issues related to space-based information systems providing functions such as communications, navigation, and remote sensing. He is particularly focused on issues related to the Global Positioning System, active and passive sensor bands, aeronautical safety bands and dual-use space communications. Dr. Pace represents the agency interests in interagency as well as international forums

Dr. Pace previously served as the Deputy Chief of Staff to the NASA Administrator. His primary areas of responsibility included oversight of the President's Management Agenda in Human Capital, Competitive Sourcing, Expanding e-Government, Financial Management, and Integrating Budget and Performance.

Prior to NASA, Dr. Pace was the Assistant Director for Space and Aeronautics in the White House Office of Science and Technology Policy (OSTP). There he was responsible for space and aviation-related issues and coordination of civil and commercial space issues through the Space Policy Coordinating Committee of the National Security Council. Dr. Pace served on the Bush-Cheney Transition Team for NASA and the National Science Foundation.

Prior to his White House appointment, Dr. Pace worked for the RAND Corporation's Science and Technology Policy Institute (STPI) -- a federally funded research and development center for the Office of Science and Technology Policy. In addition to his extensive research into space policy, technology policy, and international competitiveness at RAND, Dr. Pace also was a key member of a successful international effort to preserve radio navigation satellite spectrum at the 1997 World Radiocommunication Conference (WRC-97) and the addition of new spectrum for satellite navigation at WRC-2000. He also was a member of Department of Defense Senior Review Group on Commercial Remote Sensing and the National Research Council's Committee on Earth Sciences.

From 1990 to 1993, Dr. Pace served as the Deputy Director and Acting Director of the Office of Space Commerce, in the Office of the Deputy Secretary of the Department of Commerce. Among his many responsibilities at OSC, Dr. Pace coordinated space policy issues across the Department and participated in efforts affecting export controls for space technologies, space trade negotiations with Japan, Russia, China, and Europe, the licensing process for private remote sensing systems, missile proliferation, and the U.S. space industrial base.

Dr. Pace received a Bachelor of Science degree in Physics from Harvey Mudd College in 1980; Masters degrees in Aeronautics & Astronautics and Technology & Policy from the Massachusetts Institute of Technology in 1982; and a Doctorate in Policy Analysis from the RAND Graduate School in 1989. His dissertation was entitled "U.S. Access to Space: Launch Vehicle Choices for 1990-2010."

PANEL II

Martin U. Ripple **Director Galileo Program, EADS Space Services**

Martin U. Ripple joined EADS (European Aeronautical Defense and Space Company) shortly after the DASA-Aerospatiale-Matra-CASA merger in 2000. His original position was head of the Group Strategic Planning process. Since July 2002, he has been responsible for the Galileo program within the EADS Space division.

Mr. Ripple began his career within the DaimlerChrysler Group in 1994, working on the turbine integration for civil and military helicopters in Marseille, France (Eurocopter). Since 1996, he has worked for Mercedes-Benz in various capacities, at production sites Sindelfingen, Germany and East London, South Africa, as well as at the DaimlerChrysler Corporate Headquarters in Stuttgart, Germany.

In 1999 he joined MTU (Maschinen-Turbinen-Union) as a member of the senior management team, responsible for logistics and production control of MTU Maintenance in Vancouver, Canada.

Mr. Ripple was born in Hanover, Germany in 1970. After finishing military service in the Netherlands with the German Air Force, he graduated with a degree in mechanical and aeronautical engineering from the Eidgenoessische Technische Hochschule (ETH Zuerich) in 1994. Mr. Ripple currently lives in Paris, is married to a Canadian, has one son, and enjoys several sports as well as piloting single-engine aircrafts. He speaks German, French, and English.

Steve Moran **Director, Civil Space Programs, Raytheon**

Mr. Moran joined the Raytheon Company in November 1999 as Director for Civil Space Programs in the Washington Business Development Office. He is responsible for corporate civil space strategy; customer interface for current programs and key pursuits; identification of future opportunities; and coordination of civil space activities within Raytheon.

Prior to joining Raytheon, Mr. Moran served five years as Senior Policy Advisor for Space and Aviation in the White House Office of Science and Technology Policy, where he was responsible for Global Positioning System (GPS), aviation, and frequency spectrum policy issues. In 1994 he established a GPS Interagency Working Group within the Executive Branch and led the development of the 1996 Presidential Directive on US GPS Policy. From 1996 to his departure in 1999, he continued to serve as the White House lead for implementation of US GPS policy. In 1996 and 1997 Mr. Moran led the Aviation Safety and Air Traffic Management components of the White House Commission on Aviation Safety and Security, and was responsible for implementation of the Commission's Safety and Air Traffic Management recommendations until his departure in 1999.

From 1990 to 1994, Mr. Moran served as a Program Manager in NASA's Office of Aero-Space Technology. He managed the materials and structures elements of NASA's High-Speed Research program, and coordinated all of NASA's R&D activities in materials, structures, and manufacturing technologies. He represented NASA on several Committees of the National Science and Technology Council, and was NASA's representative to the Structures and Materials Panel of the North Atlantic Treaty Organization's Advisory Group for Aerospace Research and Development.

Prior to joining the federal government, Mr. Moran spent over ten years in research and development, engineering, and program management with the Lockheed Aeronautical Systems Company. He received his BS and MS degrees in Engineering Mechanics from the Georgia Institute of Technology in 1978 and 1979, respectively.

Richard Skinner
Former Vice President, Navigation Systems, Lockheed Martin

Rick Skinner is vice president, Transformational Communications, Lockheed Martin Corporation. He has overall responsibility at Lockheed Martin for the pursuit and implementation of the U.S. Government's Transformational Communications Architecture. He previously served as vice president of Lockheed Martin Navigation Systems with overall responsibilities for GPS satellite systems and pursuit of the GPS III program.

An Air Force veteran, Rick Skinner served nearly twenty-nine years in various capacities within the Department of Defense and the Intelligence Community. He retired in October 2000 as the Principal Director, Command, Control, Communications, Intelligence, Surveillance, Reconnaissance, and Space in the Office of the Secretary of Defense. His testimony to U.S. Congressional committees on topics ranging from U.S. spectrum management, technology transfer, and the threat to U.S. infrastructure of electromagnetic pulse were instrumental in informing Congress, shaping debate, and framing legislation critical to Department of Defense planning and operations.

Prior to joining the Secretary of Defense's staff, Colonel Skinner served in a number of senior positions in the Air Force and the Joint Staff. These included Deputy Director and Acting Director, Space and Nuclear Deterrence, Office of the Assistant Secretary of the Air Force (Acquisition). He was Director of Communications and Computer Architecture for the United States Air Force, Director of Command, Control, Communications, and Computers, Twenty-first Air Force, Commander of the 438th, the 305th, and the 1980th Communications Groups, and Director of Communications for the Office of the Secretary of the Air Force Special Programs. He served as Joint Staff Director of Command Systems Operations during U.S. Operations Just Cause (Panama) and Dessert Shield (Kuwait) and was responsible for major upgrades to the National Military Command Center and the development and fielding of the Crisis Management Automated Data Processing System.

He has a broad background in communications systems operations, maintenance, and engineering; research and development; program management; defense policy, programming, budgeting, and acquisition; organization leadership; and space systems development and operations. He has authored and presented his views in a wide variety of national and international forums including the National Space Foundation, Institute of Electrical and Electronic Engineering, Armed Forces Communications Electronics Association, Air Force Association, Aerospace Industries Association, American Astronomical Association, International Space University, and National Defense Industries Association among others. Rick, wife and daughter live in Virginia.

Matthew Jones
Manager, GPS Programs, Boeing

Matt Jones joined the Boeing Company in November 2000 as manager for civil space programs for the Boeing Government Relations Office in Arlington, Virginia. Working primarily in support of Boeing Satellite Systems (formerly Hughes Space and Communications), Matt worked with NASA, NOAA and FAA on civilian space programs such as TDRS (Tracking and Data Relay Satellite) and GOES (Geostationary Operational Environmental Satellite). He was also responsible for customer relations and new business development in that area.

In August of 2001, Matt was selected to become Government Marketing Manager for Global Positioning System (GPS) Programs in the Washington, DC region. Matt is responsible for development and execution of Washington, D.C. Operations' marketing strategies for Boeing's GPS IIF and GPS III activities in support of Boeing Integrated Defense Systems.

Prior to Boeing, Matt worked with Litton-TASC supporting the National Reconnaissance Office (NRO), Office of Policy. His professional experience includes providing policy and programmatic analysis to the Vice President's National Space Council and the Air Force Science and Technology Directorate, and providing legislative analysis for the Office of the Deputy Undersecretary of Defense for Space, while employed by the ANSER Corporation.

Matt's undergraduate degree is in Communications and Theater from Temple University in Philadelphia, PA, and he attended The George Washington University graduate program in Science, Technology, and Public Policy.