

**2011 INTERNATIONAL WORKSHOP ON  
ENVIRONMENT AND  
ALTERNATIVE ENERGY**

**“Global Collaboration in Sustainable Environmental and  
Alternative Energy Strategies”**

**Noordwijk, The Netherlands—November 15-18, 2011**

Welcome

Bem-Vindos

Welkom

Willkommen

Bienvenue

Bienvenido

Benvenuto

## **General Castelo Branco**

Director, Center for Pollution Prevention (C3P)



Pelagio Manuel de Abreu Castelo Branco

Lt. Gen. (Ret) Portuguese Air Force General Castelo Branco has had an extensive military career spanning forty three years until his retirement in 1998. During this time he has held numerous command and staff positions in Portugal and abroad and has been intimately associated with flight safety, aeronautical engineering and

aircraft maintenance, repair and overhaul.

Upon his promotion to Lieutenant General in 1986, he directed the National Defense Institute for 3 years and was Commandant of the NATO Defense College in Rome from 1990 to 1993, when the NATO Partnership for Peace Programme, with which he intensively participated, was extended to Eastern European Countries. He held the post of Vice Chief of Staff of the Air Force prior to becoming President of the Aeronautical Industry of Portugal, PLC from 1995 to 2000.

At the same time, he represented Portugal in AECMA, the European Association of Aircraft Manufacturers and was Vice Chairman of EDIG, the European Defense Industries Group in Brussels until 2004.

He is presently Director General of C3P, Centro Para Prevenção da Poluição (Center for Pollution Prevention), a non profit organization created in September 2002 under the auspices of the Portuguese and USA Governments, represented by the Ministry of Environment and NASA respectively.

General Castelo Branco has attended various Professional Military Courses in Portugal, in France and in the United States, holding a Master's Degree in Counseling and Guidance from Troy State University at Montgomery, Alabama, U.S.A., and is the recipient of numerous civilian and military awards and decorations.

## Olga Dominguez

Assistant Administrator for the Office of Strategic Infrastructure, NASA

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Olga M. Dominguez became the Assistant Administrator for NASA's Office of Strategic Infrastructure on June 26, 2006. She leads the Agency infrastructure policy efforts and the integration of infrastructure issues in support of accomplishing NASA's Science, Aeronautics, Space Operations, and Exploration Missions.

Previously, Dominguez served as the Deputy Assistant Administrator for the Office of Strategic Infrastructure. Prior to that assignment, she served as the Director of NASA's Environmental Division, where she was responsible for agency environmental policy and guidance, agency environmental budgets, and support to the NASA Administrator on environmental issues. She joined NASA Headquarters in 1990 and became a member of the United States of America Senior Executive Service in 1998. Earlier in her career, Dominguez directed the environmental program for the Navy's David Taylor Research Laboratories and was a lead enforcement inspector for the State of Maryland's Department of the Environment and the Prince George's County Health Department.

The recipient of numerous awards, Dominguez has received the Presidential Rank Award of Distinguished Executive for 2007; the Presidential Rank Award of Meritorious Executive; the Presidential Award for Leadership in Energy Management; Stennis Space Center's Frontline Award; NASA's Cooperative External Achievement Award; and, NASA's Medal for Outstanding Leadership. She was named one of "The 80 Elite Hispanic Women" by the Hispanic Business magazine in April 2002.

Dominguez's educational background includes a Bachelor of Science degree in Fish and Wildlife Management, with emphasis in Zoology. She brings over twenty-five years of experience in leadership and management spanning local, state and federal governments.

She and her family reside in Annapolis, MD.

**Page 4** **James Leatherwood**  
Director, Environmental Management Division, NASA



Mr. James S. Leatherwood, Director of NASA's Environmental Management Division, holds over 25 years of national and international environmental experience. Mr. Leatherwood's focus at NASA has been on enabling mission success through sustainability. Mr. Leatherwood's diverse background includes areas such as environmental engineering and scientific research, state and national environmental policy, and ecological restoration.

Mr. Leatherwood has worked his way up the career ladder, first working as a forest fire fighter and then as a state soil scientist. He later moved on to support the United States Air Force nationally and internationally as a Director of Environmental Management at Kirkland AFC, NM; Deputy Commander of Engineering in Okinawa, Japan; Director of Environmental Management in Azores, Portugal, and Okinawa, Japan; and, as an environmental engineer in Ogden, Utah. His Washington DC experience included three years leading the Forest Service's environmental program as the Chief Environmental Engineer and participating as a Legislative fellow on Capital Hill working on environmental and Natural resource policy. Mr. Leatherwood came to NASA from the U. S. Department of Agriculture Headquarters where he was Director of their Environmental Program.

Mr. Leatherwood was recognized for his leadership through many awards including the Federal Environmental Engineer of the year, by receiving the Henry P. Reitman Senior Civilian award and, by the State of Utah, with the Governor's Commendation Award. He is a firm believer in the strength of teams and in collaborative leadership. His team leadership skills have been recognized through receipt of the Best Overseas Engineering Department, two Thomas D. White Environmental Quality Awards, the Thomas D. White National Resource Award (overseas), and the Best Civil Engineering Unit award in the Air Force.

# Nathalie Meusy

Head of the Coordination Office on Sustainable Development, ESA

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Nathalie Meusy is Head of the Coordination Office on Sustainable Development in the Directorate of Resources Management and Industrial Matters at ESA (European Space Agency) since its creation in November 2008.

Prior to the creation of this Office, she launched the Sustainable Development initiative at ESA in 2007. She studied Law and Social Sciences at Paris University and started her career in journalism (Magnum Photos Agency). Thereafter, Mrs Meusy joined ESA in 1987 as a lawyer/ administrator in the Human Resources Department.

She is well aware of HR issues in the space sector and worked for all ESA establishments in a support Division where she held the post of Head of Social Policies for 15 years. She was the project leader of several HR reforms and negotiated several agreements between ESA and partners in the space sector concerning exchanges and secondments of staff.

She organized three staff surveys: two on various topics (from the relations with industry to HR subjects), and one on Sustainable Development which led her to her current post aiming at coordinating and exchanging on Sustainability issues, both on an internal and external basis, and building up the ESA official policy in this field.

## Franco Ongaro

Director of Technical and Quality Management  
and Head of ESTEC



Franco Ongaro took up duty as ESA Director of Technical and Quality Management (D/TEC), and Head of ESTEC in Noordwijk, The Netherlands, on 1 April 2011.

Franco Ongaro graduated as a Doctor of Aeronautical Engineering from the University Politecnico of Milan. In 1987 he joined ESA, working at ESA HQ in Paris

on the Columbus project. In 1988, he moved to ESTEC in the Netherlands as Head of the Columbus Payload Interfaces Unit. He was shortlisted as candidate in the European astronaut selection of 1991.

In 1994, Franco Ongaro moved back to HQ, to join the ESA Strategy Directorate as General Studies Programme Manager. In 2001, he initiated and managed the start of the Aurora exploration programme until 2005, when he became head of the ESA Advanced Concepts and Technology Planning Department, issuing the first ESA Technology Long Term Plan and creating the Advanced Concepts Team.

From 2007, he led the preparation and implementation of the Iris programme to develop a 'satcom' component for air traffic management. In 2009 he became Head of the Telecom Technologies, Products and Systems Department in the Telecommunications and Integrated Applications Directorate (TIA) at ESTEC. From 1994 until 2009, he taught a one-semester graduate course in spacecraft design at the University Politecnico of Milan.

# Giuseppe Morsillo

Director of ESA Policies, Planning and Control

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Giuseppe Morsillo took up duty as ESA Director for ESA Policies, Planning and Control (D/PPC) on 1 April 2011.

Giuseppe Morsillo has 27 years of experience in international environments, operating in production, engineering, programme management, marketing and sales, procurement, strategic

marketing, strategic planning and control, national and international relations, mainly in the space sector but also in the aeronautics and defence sectors, in industry as well as in governmental and intergovernmental agencies.

He graduated with honours in Electrical Engineering in 1983 from the Polytechnic of Naples, Italy. From 1983 to 2000, he held several positions in various aerospace companies of Finmeccanica, the last being Head of Civil Marketing of Alenia Aerospazio Space Division.

In 2001, he joined the Italian space agency ASI, where he served in various positions, the last being Head of Strategy & National and International Relations, while also being Chairman of ELV and Italian delegate to the ESA Council.

In 2005, he joined ESA as Head of the Director General's Policy Office, in charge of coordination with Member States and EU institutions, strategic planning and control, security strategy, management of future studies and advanced concepts.

The new Directorate for ESA Policies, Planning and Control will define ESA policies and consolidate resources planning and control at corporate level.

## Christer Fuglesang

Astronaut—Head of Science and Applications Division



Christer Fuglesang, Astronaut  
European Space Agency (ESA)

In May 1992, Fuglesang was selected to join the European Astronaut Corps based at the European Astronaut Centre (EAC) in Cologne, Germany. In 1992, he followed the introductory training programme at EAC and a four-week training programme at the Gagarin Cosmonaut Training Centre (GCTC) in Star City, Russia, with a view to future ESA-Russian collaboration on the Mir space station. In July 1993, he completed basic training at

EAC. In May 1993, Fuglesang and fellow ESA astronaut Thomas Reiter were selected for the Euromir 95 mission and commenced training at GCTC in preparation for their flight engineer tasks, extravehicular activities (spacewalks) and operation of the Soyuz spacecraft. In March 1995, he was selected as member of Crew 2 for the Euromir 95 mission, joining Gennadi Manakov and Pavel Vinogradov. During the mission, which lasted from 3 September to 29 February 1996, Fuglesang was the prime Crew Interface Coordinator (CIC) working at the Russian Mission Control Centre (TsUP) in Kaliningrad. Between March and June 1996, he underwent specialised training on Soyuz operations for undocking, atmospheric reentry and landing. In August 1996, Fuglesang entered the Mission Specialist Class at NASA's Johnson Space Center (JSC), Houston. He qualified for flight assignment as a Mission Specialist in April 1998.

From May to October 1998, he resumed training at GCTC on Soyuz-TM spacecraft operations for undocking, atmospheric reentry and landing. He was awarded the Russian 'Soyuz Return Commander' certificate, which qualifies him to command a three-person Soyuz capsule on its return from space.

In October 1998, he returned to JSC and was assigned to technical duties in the Astronaut Office. He worked with Russian Transfer Vehicles (i.e. Soyuz and Progress) and then as Crew Support Astronaut for the Expedition Corps of the second International Space Station increment crew. He later worked with upcoming payloads for ISS and with extravehicular activities.

Fuglesang continued with some scientific work and was involved with the SilEye experiment which investigated light flashes in astronauts' eyes on Mir between 1995 and 1999. This work is continuing on ISS



with the Alteino detector and the ALTEA facility. He also initiated the DESIRE Project that simulated and estimated the radiation environment inside ISS.

In February 2002, he was assigned as a Mission Specialist to the STS-116 Space Shuttle mission to the International Space Station.

In July 2008, Fuglesang was assigned as Mission Specialist on the STS-128 Space Shuttle mission to the International Space Station.

#### **Spaceflight experience**

From 9 to 22 December 2006, Christer Fuglesang flew as Mission Specialist on Space Shuttle *Discovery* for flight STS-116 to the International Space Station. He became the first Swedish astronaut to fly in space. During his mission, named Celsius, Fuglesang participated in three spacewalks, or extravehicular activities (EVAs). The tasks were to attach new hardware to the ISS and to reconfigure the Station's electrical power system. The third EVA was unscheduled with the aim to free the Station's P6 solar array which had become jammed during retraction. His total EVA time during the STS-116 mission was 18 hours 14 minutes.

Fuglesang participated in his second spaceflight from 29 August to 12 September 2009 as Mission Specialist on Space Shuttle *Discovery* for flight STS-128 to the International Space Station. During his mission, named Alissé, Fuglesang undertook two spacewalks. His tasks included the installation of a new ammonia tank assembly and preparation work for the installation of the European-built Node-3 module. His total EVA time during the STS-128 mission was 13 hours and 40 minutes, bringing his cumulative EVA time to date to 31 hours and 54 minutes. Fuglesang was also responsible for overseeing cargo transfers from the Leonardo Multi-Purpose Logistics Module (MPLM) that was transported in *Discovery's* payload bay. He also undertook experiment, educational and public relations activities as part of the Alissé Mission.

As of May 2010, Fuglesang takes up the post as Head of Science and Applications Division within the Directorate of Human Spaceflight and Operations at ESTEC, Noordwijk.

# Thank You To All Speakers

Alexandre Almeida  
David Amidei  
Mick Bilney  
General Branco  
Paul Cannock  
Augustin Coello-Vera  
Debra Dale  
Olga Dominguez  
Isabelle Duvaus-Bechon  
Francesco Emma  
Merrilee Fellows  
Paulo Ferrão  
Holger Fischer  
Mary Kay Foley  
Christer Fuglesang  
Jorge Gabriel  
Alessandro Gigante  
Brian Greene  
Laurent Jauniaux  
Marten Kingmans  
Christophe Lasseur  
James Leatherwood  
Fred Maxik  
Leland Melvin  
Nathalie Meusy  
Giuseppe Morsillo  
Mikko Nikulainen  
Franco Ongaro  
Mariana Pereira  
Mathias Persson  
Thomas Rohr  
Hilke Rosler  
Matt Rothgeb  
Kai-Uwe Schrogl  
Koen Schoots  
Al Sorkin  
Gisela Suess  
Claire Tonon