International Space Station
Multilateral Medical Policy Board
Transitions in Space Medicine
25 Years in Photos

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Edited by Charles R. Doarn
International Space Station 2011 (ISS027-E-036700)(Courtesy NASA)
Multilateral Medical Policy Board: Transitions in Space Medicine

This collection of photographic highlights covers the past 25 years of international collaboration in human spaceflight. Beginning in 1993, the international community came together to develop the medical systems for an international space station. Initially, this collaboration was bilateral in support of the Shuttle / Mir Space Station (Phase 1). However, the framework that was established to serve as the medical authority structure provided a foundation for the multilateral boards and panel, which were codified in the memoranda of understanding. The Multilateral Medical Policy Board, the Multilateral Space Medicine Board and the Multilateral Medical Operations Panel were developed in a collegial and mutually-beneficial environment by the men and women of the space agencies of Canada, Europe, Japan, Russia, and the United States.

This collection of photographs from official and personal collections captures the spirit and collegiality we have grown accustomed too. They are also presented to commemorate the integrity, professionalism, tenacity, and dedication to human space exploration consistently demonstrated by individuals involved in this amazing effort.
Dedication

This photographic collection is dedicated to the men and women who have supported the development and operation of unique international medical systems for human space exploration across the U.S. Space Shuttle, Mir, Soyuz, and the International Space Station programs. Through the vision, talent, and perseverance of these individuals, a highly successful framework has been developed to enable effective solutions for the healthy and productive human presence in conditions of space exploration missions.

We acknowledge those who have gone before us for their contributions and leadership during this remarkable period in human spaceflight.
ISS Multilateral Medical Policy Board Members

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**ESA**
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Volker Damann
Guillaume Weerts

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**RSA/SC Roscosmos**
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Shuttle / Mir – Phase 1
Initial phase of the ISS Program
October 1995, Houston, Texas
Multilateral Medical Operations Working Group
Initial Meetings

Shuttle / Mir Docking ca 1995 (Courtesy of NASA)

Entrance to the Johnson Space Center (Courtesy of NASA)

Representatives of each agency (Courtesy of NASA)
Shuttle / Mir – Phase 1
Multilateral Medical Operations Panel
Initial Meetings

Foundation for multilateral cooperation

When we did not meet face-to-face, we met virtually by video-teleconferencing always considering time zones.
MMPB#1 – March 15-16, 2001, NASA JSC Houston, TX

Expedition One launch – October 31, 2000
(William Shepherd, Sergei Krikalev, and Yuri Gidzenko) (Courtesy of NASA)

Mission 5a.1 0 Leonardo MPLM delivery

Crew of Expedition One, Expedition Two and STS-102 (Courtesy of NASA)
Expedition 8A (Courtesy of NASA)
Destiny Module and Mobile Transporter installed

Meeting held by videoteleconferencing
Expedition 7 (Courtesy of NASA)

Policy Directive #1 – Crew Health Maintenance on the International Space Station
Shuttle grounded – Columbia and crew (STS-107) lost
MMPB#4 – April 5-7, 2004, NASA HQ, Washington, DC

Expedition 8/9 (Courtesy of NASA)

MMPB guests with Rich Williams and his airplane

U.S. Capitol Building
Meetings held by videoteleconferencing
MMPB#7 – March 14-15, 2005, JAXA, Tsukuba, Japan

Expedition 10 (Courtesy of NASA)

Policy Directive #2 – Multilateral Medical Policy Board Dispute Resolutions

JAXA Headquarters

MMPB members and guests
MMPB#8 – November 9-11, 2005, ESA, European Astronaut Center, Cologne, Germany

Expedition 11 – STS-114 (Courtesy of NASA)

Dom of St Michael, Cathedral Square, Cologne

MMPB Board Members V. Damann (l), J-M. Comtois (c), and G. Gray (r)
Expedition 12/13 EVA work on Columbus (Courtesy of NASA)

NASA Headquarters, Washington DC (Courtesy of NASA)

J-M. Comtois (l), V. Damann, V. Bogomolov, R. Williams, S. Tachibana (r)
Expedition 14

European Astronaut Center, Cologne

Multilateral representatives
Expedition 15. Russian EVA to install Service Module Debris Protection Panel

Policy Directive #3 – ISS Medical Data Security Policy
Expedition 16 - Taken from STS 120 (Discovery) after undocking (Courtesy of NASA)

Downtown Tokyo

Multilateral representatives
MMPB#13 – June 5-6, 2009, IBMP, Moscow, Russia

Expedition 20 - Taken from STS 127 (Discovery) (Courtesy of NASA)

ARED delivered
MPLM delivered
HTV delivered

MMPB at work at IBMP (Doarn personal collection)

Spasskaya Tower of the Kremlin. Red Square (Doarn personal collection)
Expeditions 24/25. ISS as seen from STS-132

ISS Medical Policy Framework Document - Baselined

Lobby of the EAC (Doarn personal collection)

V. Schneider (l), V. Michaud, J. Allen, O Navinkov, C. Doarn (r)
Expedition 28/29 Landing (Courtesy of NASA)

STS-135 (Atlantis) Shuttle Program retired

Policy Directive #4 – Prevention of Infectious Disease Transmission to ISS Crewmembers

Policy Directive #7 – ISS Healthcare System Improvement
Soyuz modules during Expedition 30. Aurora Australis in the right corner (ISS030-E-126555). Courtesy of NASA.
MMPB#17 – October 26, 2012, NASA JSC, Houston, Texas

Expedition 33 – (Courtesy of NASA)

Space X Dragon Capsule docking (October 10, 2012)

Aerial view of USRA Center

Multilateral representatives (Courtesy of NASA)
MMPB#18 – January 24, 2014, IBMP, Moscow, Russia

Crew recovery in Kazakhstan (Courtesy of NASA)

Church in Central Moscow (Doarn personal collection)

Multilateral representatives (Doarn personal collection)
Alexander Gerst viewing Earth (Courtesy of NASA)

Mission Control Center (Courtesy of NASA)

Multilateral representatives (Courtesy of NASA)

Policy Directive #6 – Environmental Health Regarding Crew in Aging Spacecraft
Soyuz on return to Earth (Courtesy of NASA)

ISS Conference Center, Houston, TX (Courtesy of NASA)

Multilateral representatives (Courtesy of NASA)
One year mission of Kelly and Kornienko (Courtesy of NASA)

First one year mission Scott Kelly and Mikhail Kornienko  
(March 27, 2015 – March 2, 2016)

Twin study (Scott and Mark Kelly)

Cathedral Square, Cologne, Germany

MMPB members and guests (Courtesy of ESA)
Peggy Whitson spent 289 days on ISS, a world record for a female. She spent 665 total days in space over her career.
Expedition 53 EVA (Courtesy of NASA)

Entrance to NASA Johnson Space Center (Courtesy of NASA)

MMPB members and guests ( Courtesy of NASA)