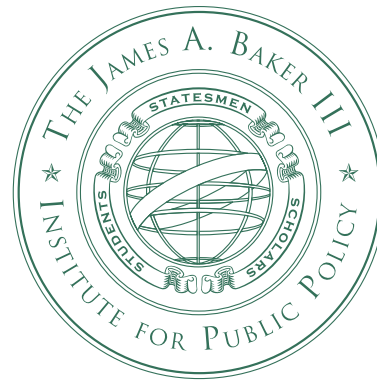


The purpose of the International Space Medicine Summit is to bring together the leading physicians and space biomedical scientists from the space-faring nations for high-level discussions of the medical and biomedical challenges astronauts and cosmonauts experience in long duration flight.

Invitations to the Summit will be extended to nations that have an interest in or have flown humans and/or conducted biomedical research in space. The primary aims of the Summit are to foster increased communication, cooperation, and collaboration among the world's top physicians and scientists in the space life sciences in order to facilitate successful human space exploration by promoting solutions that protect the health and well-being of the flight crews before, during, and after long duration missions in space; and, to enhance life on earth by applying the resultant advances in human knowledge and technology acquired through living and working in space.

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ISMS
International Space Medicine Summit

May 4-6, 2007

JAMES A. BAKER III
INSTITUTE FOR PUBLIC POLICY
RICE UNIVERSITY

Houston, Texas, USA

1800 – 1830 **Registration**1830 – 1900 **Opening Reception**0800 – 0830 **Continental Breakfast**0830 – 0900 **Welcome and Introductions**

Eugene H. Levy, Ph.D., Provost
Rice University
Bobby R. Alford, M.D.
Chancellor, Baylor College of Medicine
Chairman of the Board, CEO
National Space Biomedical Research Institute (NSBRI)
George W.S. Abbey, Baker Botts Senior Fellow in Space Policy
James A. Baker III Institute for Public Policy, Rice University

0900 – 1015 **Vision for Space Exploration****Panel Moderator:**

Karl Doetsch, Ph.D., Chairman of the Board, Athena Global, Canada

Speakers:

Scott J. Horowitz, Ph.D., National Aeronautics and Space Administration (NASA), USA
Anatoly I. Grigoriev, M.D., D.Sc., General Director, Institute of Biomedical Problems (IBMP), Russia
Volker R. Damann, M.D., European Space Agency (ESA)
Shoichi Tachibana, M.D., Ph.D.,
Japan Aerospace Exploration Agency (JAXA)
Jean-Marc Comtois, M.D., Canadian Space Agency (CSA)
Franklin Chang-Diaz, Ph.D., Astronaut (Retired) NASA, USA

1015 – 1030 **Break**1030 – 1115 **Crew Perspectives of Long Duration Space Flight****Panel Moderator:**

Charles F. Bolden, Jr., Astronaut, USMC (Major General, Retired)

Speakers:

MIR: Pavel V. Vinogradov, Cosmonaut, RSC Energia, Russia
ISS: Leroy Chiao, Ph.D., Astronaut, NASA (Retired), USA
ISS: James S. Voss, Astronaut, NASA (Retired), USA
ISS: Donald R. Pettit, Ph.D., Astronaut, NASA, USA
Skylab: Joseph P. Kerwin, M.D., Astronaut, NASA (Retired), USA

1115 – 1230 **Human Effects of Long Duration Space Flight Panel Discussion: Medical Events in Space (Evidence-Based)****Panel Moderator:**

Jeffrey R. Davis, M.D., Director, Space Life Sciences, NASA, USA

Speakers:

Jonathan B. Clark, M.D., NSBRI, USA
Valeri V. Bogomolov, M.D., D.Sc., IBMP, Russia
Peggy Whitson, Ph.D., Astronaut, NASA, USA
Shoichi Tachibana, M.D., Ph.D., JAXA, Japan
Nick Kanas, M.D., UCSF, USA

1230 – 1355 **Luncheon****“Three Ingredients Essential to Space Exploration”**

William H. Gerstenmaier, NASA, USA

1400 – 1500 **Human Effects of Long Duration Space Flight Panel Discussion: Environmental Events in Flight (Evidence-Based)****Panel Moderator:**

Valeri V. Bogomolov, M.D., D.Sc., IBMP, Russia

Speakers:

David A. Wolf, M.D., Astronaut, NASA, USA
Vladislav Petrov, M.D., IBMP, Russia
Natalia Novikova, Ph.D., IBMP, Russia
Nigel Packham, Ph.D., NASA, USA
Marcelo Vazquez, M.D., Ph.D., NSBRI, USA
Mary Van Baalen, NASA, USA

1500 – 1600 **Human Effects of Long Duration Space Flight Panel Discussion: Human Factors Events in Flight (Evidence-Based)****Panel Moderator:**

Mihriban Whitmore, Ph.D., NASA, USA

Speakers:

David Dinges, Ph.D., NSBRI, USA
Vadim Guschin, Ph.D., IBMP, Russia
Frank Carpenter, M.D., NASA, USA
Jack W. Stuster, Ph.D., Anacapa Sciences, Inc., USA
Lt. Col. Mike Fincke (USAF), Astronaut, NASA, USA

1600 – 1615 **Break**1615 – 1715 **Human Effects of Long Duration Space Flight Panel Discussion: Countermeasure Effects in Flight (Evidence-Based)****Panel Co-moderators:**

Inessa Kozlovskaya, M.D., D.Sc., Ph.D., IBMP, Russia
Chuck Sawin, Ph.D., NASA (Retired), USA

Speakers:

Pavel V. Vinogradov, Cosmonaut, RSC Energia, Russia
Hiroshi Ohshima, M.D., Ph.D., JAXA, Japan
Valeri V. Bogomolov, M.D., D.Sc., IBMP, Russia
Shannon Lucid, Ph.D., NASA, USA
Laura K. Barger, Ph.D., HMS/NSBRI, USA
Michael L. Gernhardt, Ph.D., Astronaut, NASA, USA

1715 – 1830 **Risk Management Approach, Risk Mitigation—Standards to Deliverables Panel Discussion:****Panel Co-moderators:**

Jeanne L. Becker, Ph.D., Associate Director, NSBRI, USA
Kathy Laurini, Deputy Director, Space Life Sciences, NASA, USA

Speakers:*Standards (Laurini lead)*

Anatoly I. Grigoriev, M.D., D.Sc., IBMP, Russia
Jeffrey R. Davis, M.D., NASA, USA
Richard Williams, M.D., Chief Health & Medical Officer, NASA, USA
Donald P. McErlean, Ph.D., PAX, USA
Melchor J. Antuñano, M.D., FAA, USA
Francis Cucinotta, Ph.D., NASA, USA

Human Research (Becker lead)

Neal R. Pellis, Ph.D., NASA, USA
Boris Morukov, M.D., Cosmonaut, IBMP, Russia
Inessa Kozlovskaya, M.D., D.Sc., Ph.D., IBMP, Russia
Col. Bryan O'Connor, Astronaut, NASA, USA
Patrik Sundblad, M.D., Ph.D., ESA, The Netherlands
Baruch A. Brody, Ph.D., BCM, Rice, USA
Donald A. Thomas, Ph.D., Astronaut, NASA, USA
Jean-Marc Comtois, M.D., CSA, Canada

1900 – 2100 **Reception and International Space Medicine Summit Dinner “Current Plans for Space Exploration”**

Carl E. Walz, Astronaut, USAF (Colonel, Retired), Director, Advanced Capabilities Division, NASA, USA

0830 – 0900 **Continental Breakfast**0900 – 1030 **Medical Care – Levels of Care Requirements for Long Duration Space Flight Panel Discussion:****Panel Moderator:**

J.M. “Mike” Duncan, M.D., NASA, USA

Speakers:

Volker R. Damann, M.D., ESA, Germany
Michael Barratt, M.D., Astronaut, NASA, USA
Yury I. Voronkov, M.D., Ph.D., IBMP, Russia
Christian Otto, M.D., Canadian Polar Commission, Ontario, Canada
Ellen Baker, M.D., Astronaut, NASA, USA
Boris Morukov, M.D., Cosmonaut, IBMP, Russia

1030 – 1200 **Experiences with Crew Return Recovery Systems and Post Recovery Observations and Standards of Care Panel Discussion:****Panel Moderator:**

Jeffrey P. Sutton, M.D., Ph.D., Director, NSBRI, USA

Speakers:

J.D. Polk, M.D., NASA, USA
Vladimir Pochuyev, M.D., IBMP, Russia
Kenneth D. Bowersox, Astronaut, USN (Captain, Retired), USA
Joseph P. Kerwin, M.D., Astronaut, NASA (Retired), USA
Sam L. Pool, M.D., NASA (Retired), USA
Lt. Col. Mike Fincke (USAF), Astronaut, NASA, USA
Richard T. Jennings, M.D., Chief Aerospace Medicine Residency, UTMB, USA

1200 – 1315 **Luncheon**1315 – 1445 **Break Out Sessions: Focus Group Meetings**

GROUP I: Vision for Space Exploration

GROUP II: Priority Needs to Fill Knowledge and Evidence Base in Space Medicine

GROUP III: Emerging Technologies and Applications to Fill Gaps in Space Medicine

GROUP IV: Cooperative Utilization of ISS and Extended Lunar Research Facilities for Integration of Coordinated, Collaborative Biomedical Research to Advance Space Medicine

1445 – 1500 **Break**1500 – 1700 **Reports of Focus Groups’ Discussions**1800 – 2100 **Reception and Dinner****Speakers:**

Vladimir G. Titov, Cosmonaut (Retired), RSC Energia, Russia
Charles J. Precourt, Astronaut (Retired) NASA, USA

0830 – 0900 **Continental Breakfast**0900 – 1000 **Summary of: Challenges; Goals; Priorities; Suggestions for Cooperation, Coordination, and Collaboration; and, Methods for Future Communication, Next Steps****Speaker:**

Jeffrey P. Sutton, M.D., Ph.D., NSBRI, USA

1000 – 1030 **Discussion**1030 – 1100 **Closing****Speaker:**

Anatoly I. Grigoriev, M.D., D.Sc., IBMP, Russia