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# SPACE MEDICINE BRANCH REPORT

## Space Medicine Branch-Sponsored Panels

The Space Medicine Branch will be sponsor three panels at this year's scientific meeting in Atlanta, all on Tuesday, May 7th. They should be excellent presentations on recent space medicine activities and research.

**Tuesday, 8:30 a.m. Ballroom D**  
**The Shuttle-Mir Science Program: A Step Toward International Space Station**  
Chairperson - Dr. Michael Barratt  
Flight Surgeon, Medical Operations Branch  
NASA-Johnson Space Center Houston, TX

This panel will review the development and recent activities of the collaborative efforts of the U.S. and Russian Space Agencies in support of joint U.S.-Russian missions and their role as a vital step toward the International Space Station.

<u>Presentation</u>	<u>Speakers</u>
"Development of a Joint U-S, Russian Science Program"	Whitson/McBrine/Muller

"The Shuttle-Mir Science Program: Training and Baseline Data Collection"	McBrine/Muller/Whitson
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"The Shuttle-Mir Science Program: Mission Support Activities for the Mir-18 Crew"	Muller/McBrine/Whitson
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"Preflight Medical Support Activities for the Mir-18 Mission"	Barratt/Ward Kobzev/Ryumin
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"Inflight Medical Support Activities for the Mir-18 Mission"	Ward/Barratt/ Kobzev/Anoshkin/ Goncharov
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"Psychological Aspects of the Mir-18 Joint U.S./Russian Mission"	Marsh/Holland
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**Tuesday, 10:30 a.m. Ballroom D**  
**Advances in Operational Space Medicine**  
Chairperson - Dr. Roger Billica  
Chief, Medical Operations Branch  
NASA- Johnson Space Center, Houston, TX

This panel will present recent advances in several fields of space medicine that are dedicated to the assurance of the health and safety of spaceflight crews.

<u>Presentation</u>	<u>Speakers</u>
"Update, to Space Flight Health Risk Assessment"	Billica

"Progress in NASA Telemedicine"	Simmons/Billica
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"Space Motion Sickness: Current Solutions and Research Trends"	Marshburn/Kaufman/ Perachio
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"The Effects of Betaxolol Ophthalmic Solution on Intraocular Pressures During Microgravity"	Pattinson/Gibson/ Manuel/March
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"Medical Support Plans Overview for the International Space Station"	Chandler/Barratt
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"Validation of a Parabolic Flight Microgravity CPR Animal Model"	Johnston/Campbell/Billica/ Ward/Norfleet/Eichstadt/ Robinson/Jennings/Kucharz/ Rouse/Simmons/Lloyd/ Beck/Barratt/Doursout
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**Tuesday 2:00 pm Ballroom D**  
**Lower Body Negative Pressure Countermeasure or Counterfeit for Spaceflight**  
Chairperson - Dr. G. Wyckliffe Hoffer  
Deputy Director, Biomedical Operations Office  
NASA-Kennedy Space Center, FL

This panel will present the current status and opinions on the efficacy of LBNP as a countermeasure for preventing or ameliorating some aspects of the cardiovascular deconditioning associated with human spaceflight.

<u>Presentation</u>	<u>Speakers</u>
"Current Concepts of Human Cardiovascular Adaptation to Microgravity"	Blomqvist

"Lower Body Negative Pressure (LBNP) as a Countermeasure for Long Term Spaceflight"	Guell
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"LBNP: Pressure Effects"	Convertino
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"Peripheral Effects of LBNP: Role in Maintaining Orthostatic Function During Bed Rest"	Fortney/Hargens
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"LBNP: Crew Perspectives"	Mukai
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"Lower Body Negative Pressure (LBNP) as an End-Of-Mission Countermeasure: Spaceflight Experience"	Charles
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### YOUNG INVESTIGATOR'S AWARD

The Space Medicine Branch Awards Committee is accepting applications for its Young Investigator Award for the 1996 year. The applicant must submit a draft manuscript of their presentation. To be eligible, the work must be original and the author must be presenting at the Aero-space Medical Association Annual Scientific Meeting for the first time. The manuscript must be submitted by March 1, 1996 to:

**K. Jeffrey Myers, M.D.**  
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