

*IAASS Workshop*  
**Human Research Program for Civilians in  
Spaceflight & Space Habitation (HRP-C)**  
*January 23-24, 2024*

## Workshop Sponsors:



**INTERNATIONAL ASSOCIATION  
FOR THE ADVANCEMENT OF  
SPACE SAFETY**



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# Day One, Jan. 23, 2024

<b>Breakfast</b> .....	<b>8:00 AM</b>
<b>Welcoming remarks from Workshop Sponsors and Host</b> <i>Dr. Bettina Beard, Dr. Paul Wilde</i> .....	<b>8:30 AM</b>
<b>Welcome to OSU</b> <i>Dr. Johnny Stephens, Dr. Jamey Jacob</i> .....	<b>8:40 AM</b>
<b>Significance of an HRP-C: Benefits for all nations</b> <i>Hon. Jim Bridenstine</i> .....	<b>8:55 AM</b>
<b>Conception/History of the project</b> <i>Dr. Michael Marge</i> .....	<b>9:35 AM</b>
<b>Planning and scope of the HRP-C</b> <i>Dr. Bettina Beard</i> .....	<b>9:50 AM</b>
<b>Design Reference Missions: Recommendations for the HRP-C</b> <i>Dr. Sarah Georgin</i> .....	<b>10:05 AM</b>
<b>Break</b> .....	<b>10:20 AM</b>
<b>HRP-C for civilians in space: Space industry perspective</b> <i>Dr. Thomas Marshburn</i> .....	<b>10:50 AM</b>
<b>Health and Performance Subcommittee Recommendations: Overview</b> <i>Dr. Michael Schmidt</i> .....	<b>11:30 AM</b>
<b>Track 1: Comprehensive Measures</b>	
<b>Molecular phenotyping</b> <i>Dr. Michael Schmidt</i> .....	<b>11:45 PM</b>
<b>Luncheon</b> <b>Distinguished Invited Speaker: The Honorable Frank Lucas, U.S. Congressman</b> .....	<b>12:00 PM</b>
<b>Physiological phenotyping</b> <i>Dr. Jeffrey Jones</i> .....	<b>1:00 PM</b>
<b>Behavioral phenotyping</b> <i>Dr. Bettina Beard</i> .....	<b>1:15 PM</b>
<b>Morphological phenotyping</b> <i>Dr. Lori Ploutz-Snyder</i> .....	<b>1:30 PM</b>
<b>General discussion of Track 1</b> <i>Dr. Simon Evetts</i> .....	<b>1:45 PM</b>
<b>Potential Health Challenges for Commercial Spaceflight Astronauts</b> <i>Dr. JD Polk</i> .....	<b>2:45 PM</b>
<b>Break</b> .....	<b>3:25 PM</b>
<b>Global human space research</b> <i>Roberto Vittori</i> .....	<b>3:55 PM</b>
<b>CAMI Research Priorities and Gaps in Space Medicine and Human Factors</b> <i>Dr. Melchor Antunano</i> .....	<b>4:35 PM</b>
<b>Adjourn; Details about Reception/Dinner/Panel</b> <i>Dr. Jamey Jacob</i> .....	<b>5:15 PM</b>

<b>Breakfast .....</b>	<b>8:00 AM</b>
<b>Overview of Previous Day Deliberations and What to Expect</b>	
<i>Dr. Bettina Beard .....</i>	<i>8:30 AM</i>
<b>Panel Discussion: Protecting the Health and Performance of Deep Space Travelers</b>	
<i>Dr. Jennifer Fogarty, Dr. Bettina Beard, David Baumann, Vic Glover .....</i>	<i>8:40 AM</i>
<b>Track 2: Targeted Research</b>	
<i>Dr. Michael Schmidt .....</i>	<i>9:35 AM</i>
<b>Isolation, Confinement and Distance From Earth</b>	
<i>Dr. Funmilola A. Oluwafemi .....</i>	<i>9:40 AM</i>
<b>Making Space Accessible and Safe for Individuals with Disabilities</b>	
<i>Dr. Sherri Wells-Jensen .....</i>	<i>10:15 AM</i>
<b>Break .....</b>	<b>10:35 AM</b>
<b>Design Reference Mission 'Effects-Impacts-Countermeasures'</b>	
<b>Matrix: Implications for Research for Human Health and Safety in Space</b>	
<i>Dr. Simon Evetts .....</i>	<i>10:50 AM</i>
<b>General Discussion of Track 2</b>	
<i>Dr. Mark Shelhamer .....</i>	<i>11:05 AM</i>
<b>Lunch .....</b>	<b>12:05 AM</b>
<b>Track 3: Operations, Programs, and Capabilities</b>	
<i>Dr. Michael Schmidt .....</i>	<i>1:00 PM</i>
<b>Space Health Reporting System</b>	
<i>Dr. Richard Kingston .....</i>	<i>1:15 PM</i>
<b>Human Specimen and Data Repositories</b>	
<i>Dr. Chris Mason .....</i>	<i>1:30 PM</i>
<b>Human System Risk Board for Civilians</b>	
<i>Dr. Mark Shelhamer .....</i>	<i>1:45 PM</i>
<b>AI, Modeling, Prediction, and Countermeasures</b>	
<i>Dr. Erik Antonsen .....</i>	<i>2:00 PM</i>
<b>Precision Medicine</b>	
<i>Dr. Michael Schmidt .....</i>	<i>2:15 PM</i>
<b>Terrestrial Applications Program (TAP-C)</b>	
<i>Dr. William Queale .....</i>	<i>2:30 PM</i>
<b>Break .....</b>	<b>2:45 PM</b>
<b>General Discussion of Track 3</b>	
<i>Dr. Sarah Georgin .....</i>	<i>3:00 PM</i>
<b>Recommendations for Implementing the HRP-C Nationally and Internationally</b>	
<i>Dr. George Nield, Simonetta Di Pippo .....</i>	<i>4:00 PM</i>
<b>Summing It Up and Next Steps</b>	
<i>Drs. Beard, Marge, and Jacob .....</i>	<i>4:40 PM</i>

# Speakers



**Frank Lucas**  
Congressman



**Jim Bridenstine**  
Former NASA  
Administrator



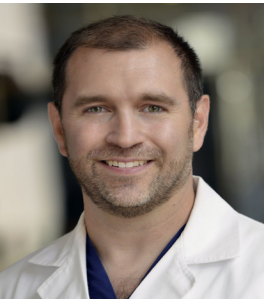
**Dr. JD Polk**  
NASA, Chief Health  
and Medical Officer



**Victor Glover**  
NASA Astronaut



**Dr. Melchor  
Antuñano**  
Civil Aerospace Medical  
Institute, Director



**Dr. Erik Antonsen**  
Baylor College of  
Medicine



**David Baumann**  
NASA, Human Research  
Program Director



**Dr. Bettina Beard**  
NASA, Research  
Psychologist



**Dr. Simonetta  
Di Pippo**  
Former Director,  
UN Office for Outer  
Space Affairs



**Dr. Simon Evetts**  
Blue Abyss, Director  
of R&D



**Dr. Jennifer Fogarty**  
TRISH, Chief Scientific  
Officer



**Dr. Sarah Georgan**  
Space Safety Institute



**Dr. Jamey Jacob**  
OAIRE, Executive  
Director



**Dr. Jeffrey Jones**  
Baylor College of  
Medicine



**Dr. Richard  
Kingston**  
University of Minnesota



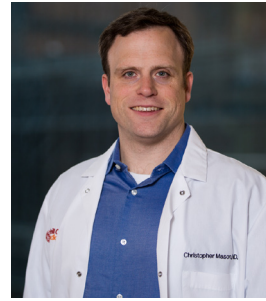
**Dr. Don Krupp**  
NASA Associate Program  
Manager, HLS



**Dr. Michael Marge**  
IAASS Workshop, Vice  
Chair



**Dr. Thomas  
Marshburn**  
Sierra Space, Chief  
Medical Officer



**Dr. Chris Mason**  
Cornell University



**Dr. Gerge Nield**  
Commercial Space  
Technologies, LLC,  
President



**Dr. Funmilola A.  
Oluwafemi**  
Nigerian Space Agency



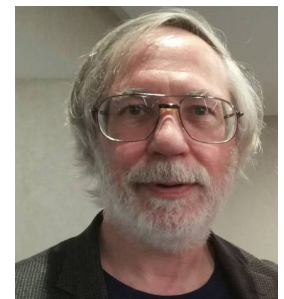
**Dr. Lori  
Ploutz-Snyder**  
University of Michigan



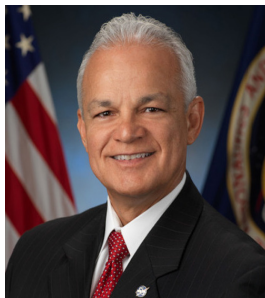
**Dr. William Queale**  
Johns Hopkins School  
of Medicine



**Dr. Michael  
Schmidt**  
Sovaris Space, CEO &  
Chief Scientific Officer



**Dr. Mark Shelhamer**  
Johns Hopkins School  
of Medicine



**Dr. Douglas Terrier**  
JSC Associate Director  
for Vision and Strategy



**Roberto Vittori**  
Italian Space Agency,  
Astronaut



**Dr. Sheri  
Wells-Jensen**  
Astro Access, Advisor of  
Diversity & Inclusion in  
Space

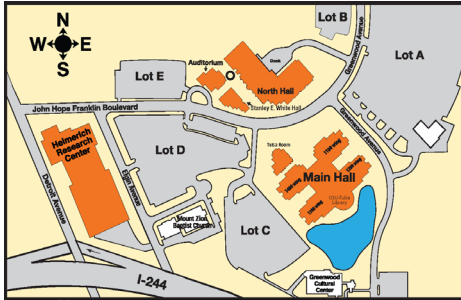


**Dr. Paul Wilde**  
IAASS, President

## OSU-Tulsa Campus:

The workshop will be held at the LaunchPad Center for Advanced Mobility in the Helmerich Research Center on the OSU Tulsa campus. It is located in the historic Greenwood District of Tulsa and is within walking distance of downtown Tulsa.

- 526 N. Elgin Avenue, Tulsa, OK 74106



## Learn more about OSU-Tulsa:



## Create WIFI Credentials Here:



## OSU-Tulsa Campus Guest WiFi:

Workshop participants will need to register their devices with OSU-Tulsa's Guest WiFi service. This will allow for all workshop members to take virtual meetings and conduct business as usual. Once you complete the registration, you will be given credentials to the "OSUGUEST" network.

## Tulsa Air & Space Museum:

The workshop dinner and reception will be held at the Tulsa Air and Space Museum and Planetarium. TASM is a center for aerospace educational enrichment and a tourism and convention resource for Tulsa.

- 3624 N 74th E Ave, Tulsa, OK 74115

## Learn more about TASM:

