Human Systems integration division

Fatigue Countermeasures Laboratory

Objectives

1. Expand on scientific knowledge of circadian physiology and cognition by conducting basic research in well-controlled laboratory environments.

2. Apply cutting-edge scientific evidence and tools to contribute to safety, performance, and overall mission success in special populations (e.g., aviation pilots and astronauts).

Approach

The Fatigue Countermeasures Laboratory believes in the value of conducting both basic and applied research. This allows for the rapid transition of cutting-edge research into an applied environment.

Astronauts Thomas D. Jones and Mark L. Polansky during their sleep shift in the Destiny laboratory on the International Space Station in 2001. (NASA)

Impact

The Fatigue Countermeasures Laboratory assists in the success of safety-critical environments. Our unique capabilities allow for the quick transference of new fatigue and circadian physiology knowledge to the high-risk operations. Our research has been applied to diverse environments, including: spaceflight, mission control, aviation cockpits, crew quarters/break rooms, and more.

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Last updated on November 28, 2016