

Monitors Track Vital Signs for Fitness and Safety



Ames Research Center

Zephyr Technology Annapolis, Maryland

NASA Technology

- ◆ The unique conditions of microgravity can be debilitating to astronauts, causing everything from mild disorientation to nausea to severe vomiting
- ◆ In order to combat these symptoms, NASA has devised a variety of equipment to induce and monitor the physiological problems caused by microgravity

Partnership

- ◆ Under a Space Act Agreement, NASA conducted its study in partnership with Zephyr, an innovator in physiological status monitoring technology
- ◆ Zephyr's unique equipment served NASA's purposes well; and NASA's expertise benefited Zephyr, which used the experience to improve its product
- ◆ Work continues with an International Space Act Agreement to study fatigue in flight crews



Benefits

- ◆ The BioHarness is Zephyr's primary product for monitoring physiological status
- ◆ Well-suited for fitness applications, it is used by numerous professional sports teams; Under Armour will soon be making a BioHarness shirt
- ◆ Zephyr has adapted its technology for use with the military, first responders, and firemen