



# Medical Devices Assess, Treat Balance Disorders

**Johnson Space Center**

**NeuroCom International Inc.  
Clackamas, Oregon**

## Originating Technology/NASA Contribution

- ◆ Readjusting to Earth's gravity impacts an astronaut's balance
- ◆ In the 1960s, NASA-funded research by Lewis Nashner resulted in computerized dynamic posturography (CDP) to isolate and assess balance function deficiencies in astronauts



## Partnership

- ◆ Nashner founded NeuroCom and continued his research to refine the clinical role of CDP
- ◆ His research resulted in EquiTest, the first commercially available CDP device, and Balance Master; the devices provide reports to identify sensory and motor impairments as well as training to regain balance control

## Product Outcome

- ◆ NASA has used the EquiTest for the evaluation and balance rehabilitation of its astronauts
- ◆ Over 2,000 systems are being used in neurology, geriatrics, orthopedics, and more
- ◆ Additional applications include exploring the connections between balance disorders and cognitive issues