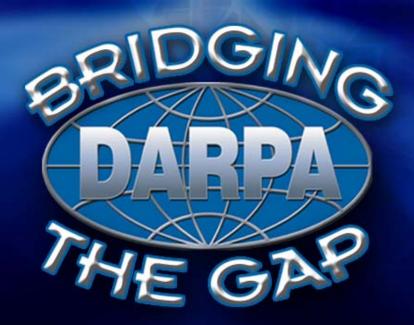
Untethering the Future

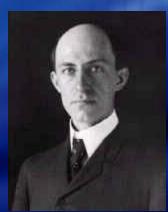
Dr. Steven G. Wax
Director, DSO



"The flying machine which will really fly might be evolved by the combined and continuous efforts of mathematicians and mechanicians in from one million to ten million years"

The New York Times9 October 1903





"We started assembly today"

Orville Wright's Diary9 October 1903



DSO Missions

Exploit Discoveries and Innovations in Science and Engineering

Paradigm Shifts in Defense Capabilities

Mine the "Far Side of the Far Side" Breakthroughs to Exploit

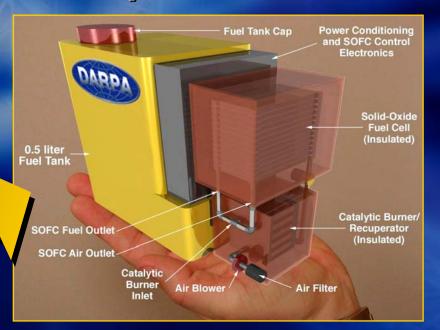


DSO Palm Power Program



Energy Storage

Portable power sources with up to 15x the energy density of today's batteries



Energy Conversion



Exoskeleton



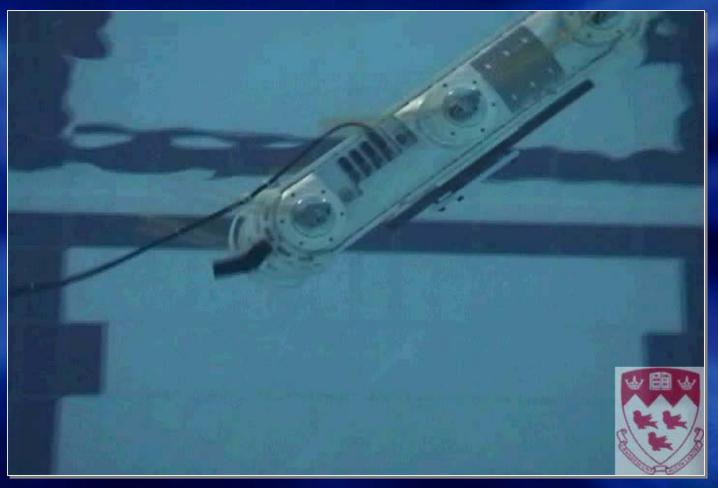


Biomimetic Locomotion





Biomimetic Locomotion

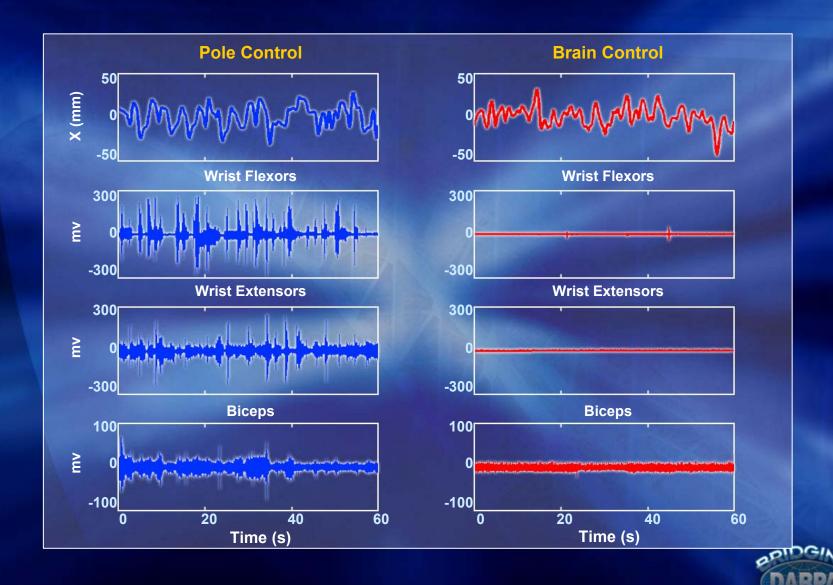




Biomimetic Locomotion







DSO Overview

- Untethering the Future
 DSO Overview Dr. Steven Wax
- Obtaining Unobtanium
 New Materials Dr. John Main
- Letting Schrodinger's Cat out of Pandora's Box Quantum Mechanics for Defense – Dr. John Lowell
- Making Math Count Exploiting Mathematics – Dr. Carey Schwartz
- After the BioRevolution
 Maintaining Human Combat Performance Dr. Brett Giroir
- Now for Something Completely Different Office Reprise – Dr. Steven Wax

