Defense Sciences Office

Michael J. Goldblatt

Director

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Mission

"Technology Harvesting"

Identify and vigorously pursue the most promising technologies within the science and engineering research communities and develop them into new DoD capabilities.

In Practice

- **Respond to technological opportunity**
- **Emphasize a *multidisciplinary* technical approach**
- **Recognize defense / commercial *industry as customer***

Personnel

Director, Dr. Michael J. Goldblatt
Deputy Director, Dr. Steven G. Wax

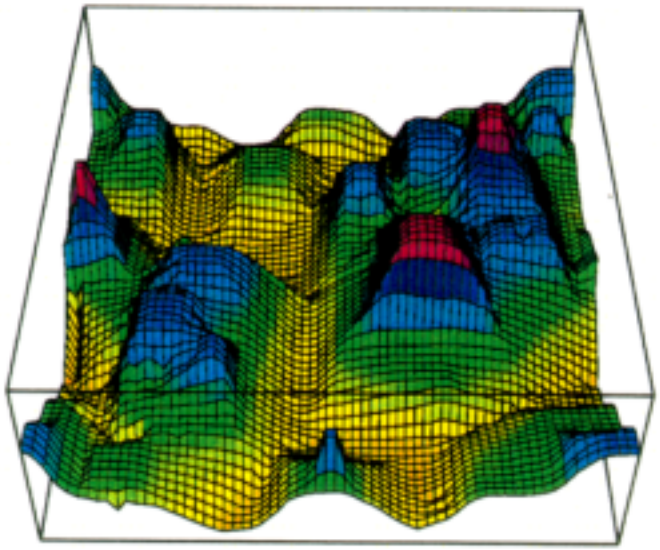
Materials, Mathematics and Devices

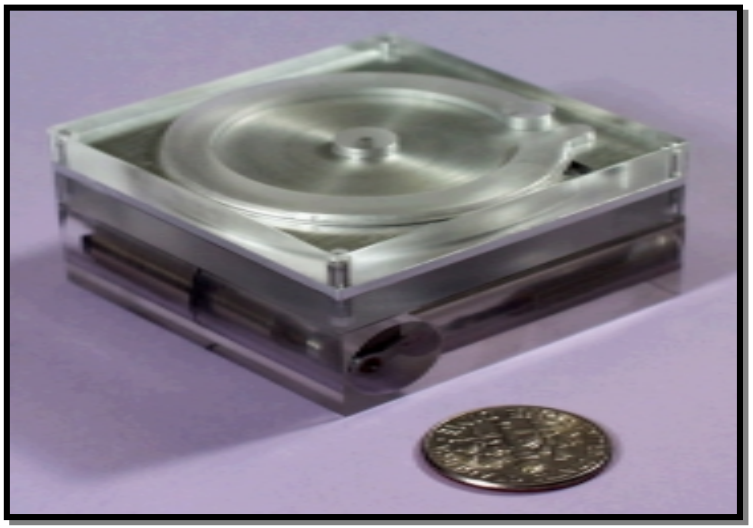
- Dr. Valerie Browning
- Dr. Leo Christodoulou
- Dr. William Coblenz
- Dr. Ephrahim Garcia
- Dr. Dennis Healy, Jr.
- Dr. Robert Nowak
- Dr. William Warren
- Dr. Stuart Wolf

Advanced Biological and Medical Technologies

- Dr. Robert Carnes
- Dr. Eric Eisenstadt
- Dr. Kurt Henry
- Dr. Stephen Morse
- Dr. Alan Rudolph
- Dr. Wallace Smith

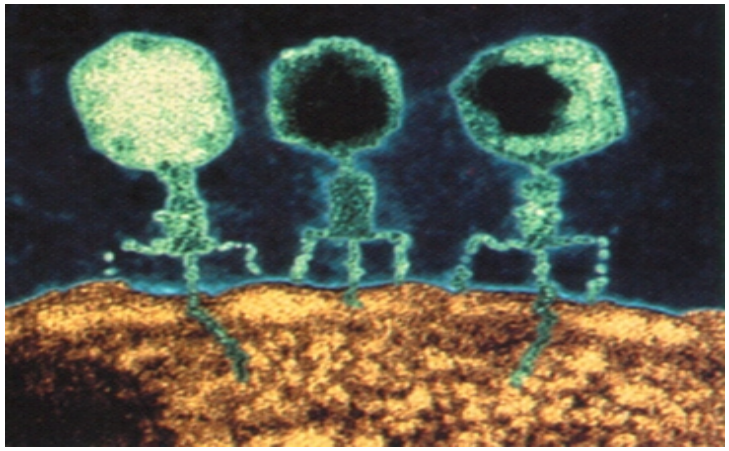
Technology Thrusts –Program Synergy





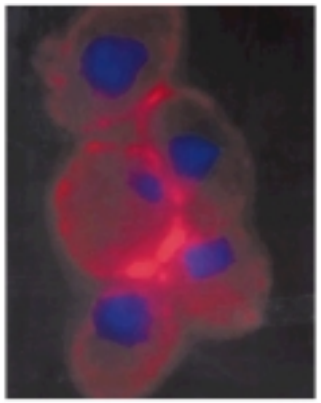
Biological Warfare Defense

- Medical countermeasures
- Advanced diagnostics
- External protection
- Consequence management
- Genomic sequencing

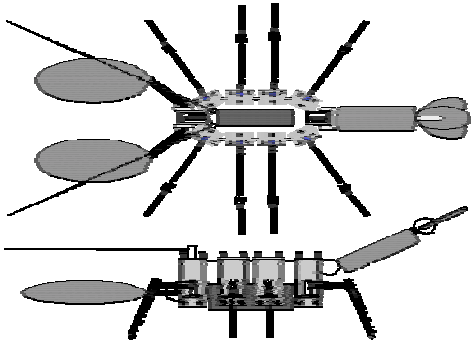


Biology

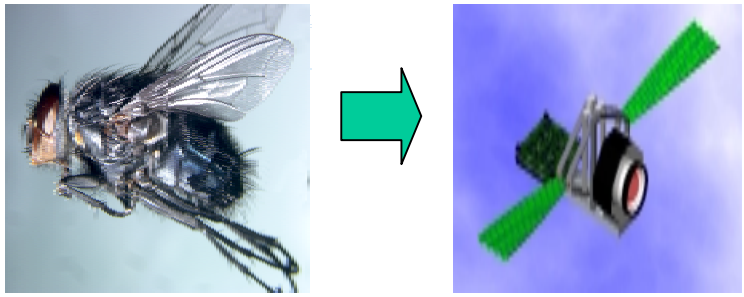
- **Cell and tissue-based biosensors**

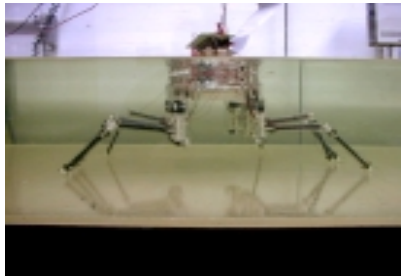


- **Controlled biological systems /Bio-inspired systems**



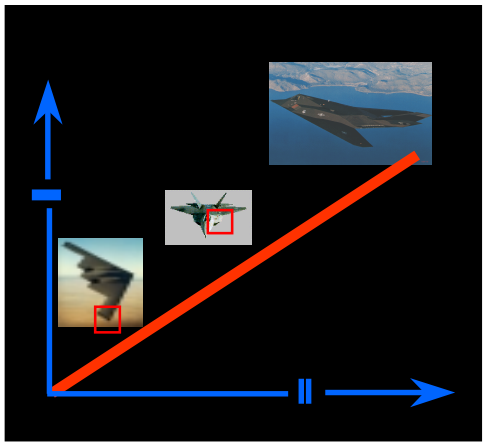
- **Fundamental research at the [BIO:INFO:MICRO] interface**

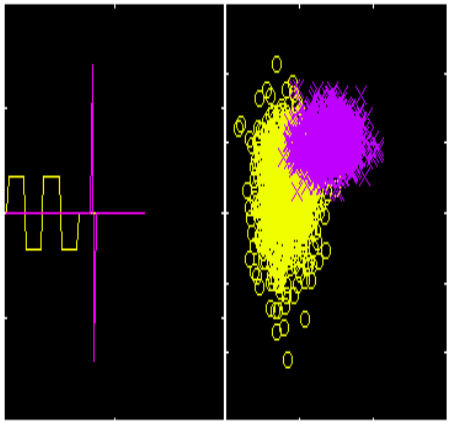


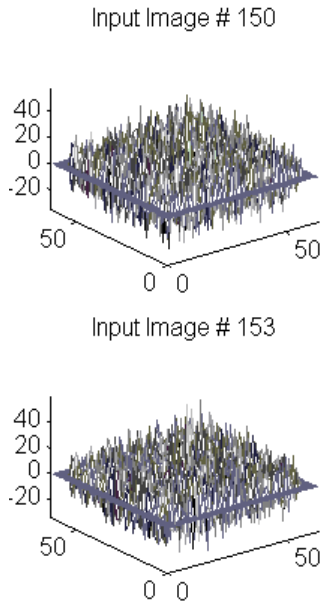


Advanced Mathematics

- **Signal and Image Processing**
- **Virtual Electromagnetic Test-range**
- **Physics-based Design for Materials Processing**
- **Scalable Strategies for Scientific Computations**

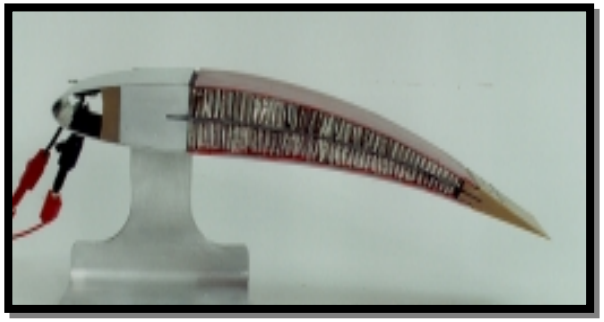


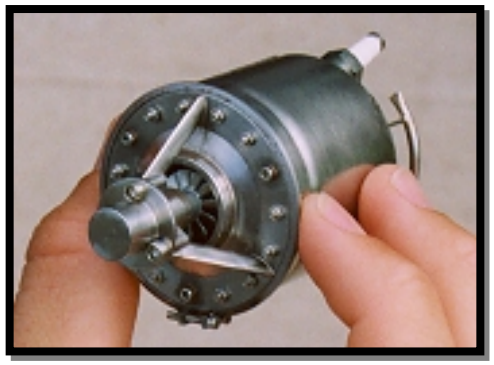


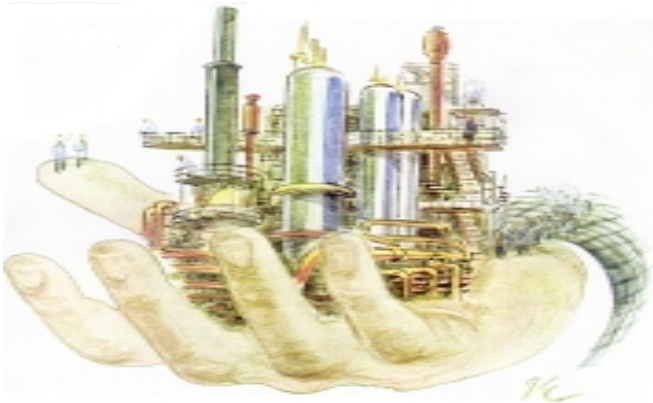


Materials and Devices

- Functional materials and devices
- Smart materials and demonstrations
- Structural materials and components
- Mesoscopic machines
- Power generation and storage







Developing New Ideas

- Materials Prognostics and Asset Readiness
- Quantum Information Science and Technology
- Biological Gears and Motors
- Performance Enhancement
- Digital Maps and Sensory Systems
- Biotechnology
- Activity Detection Technologies
- Meta Materials
- Living Machines

http://www.darpa.mil/DSO/solicitations/