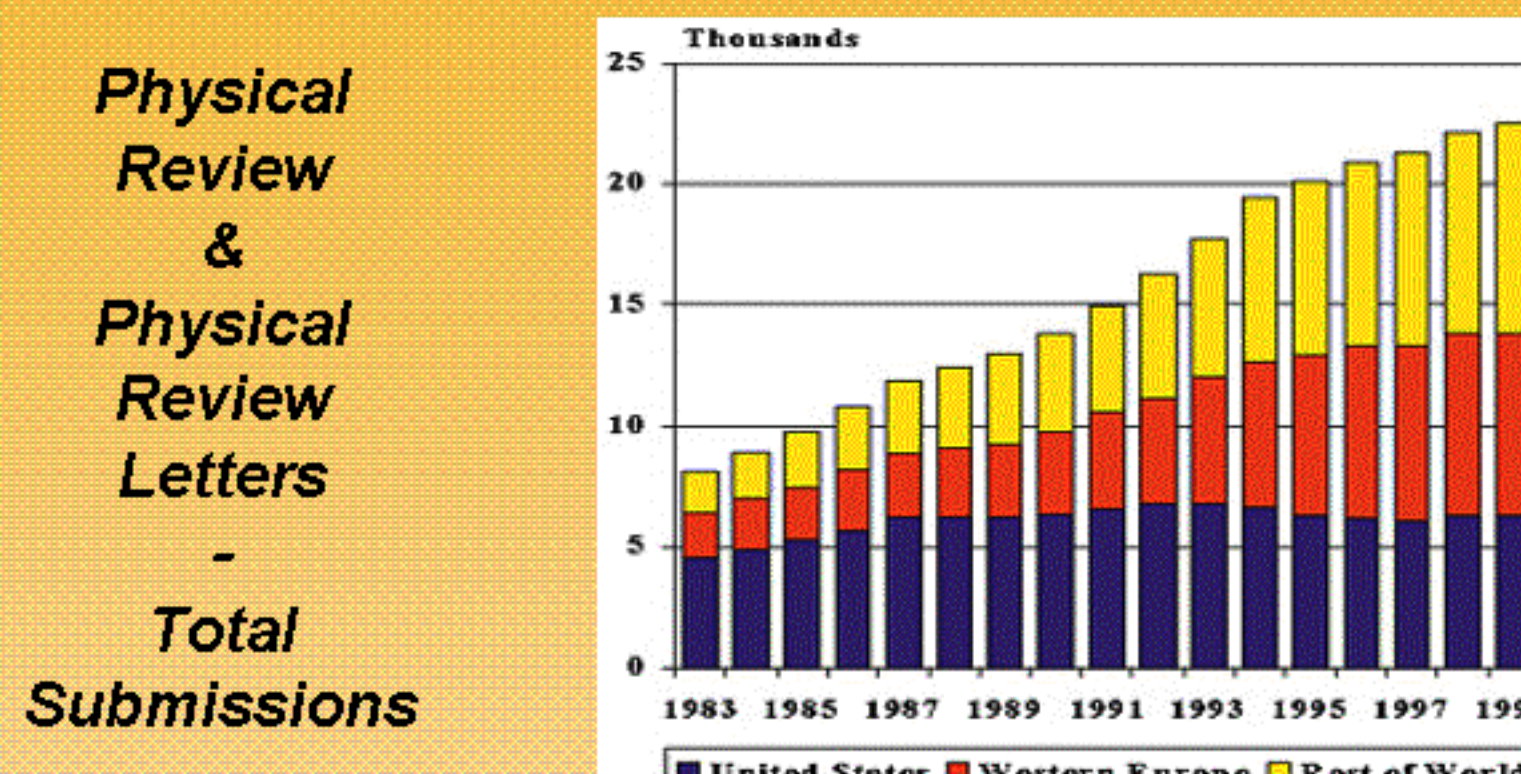


Robert Kavetsky – Office of Naval Research

Overview

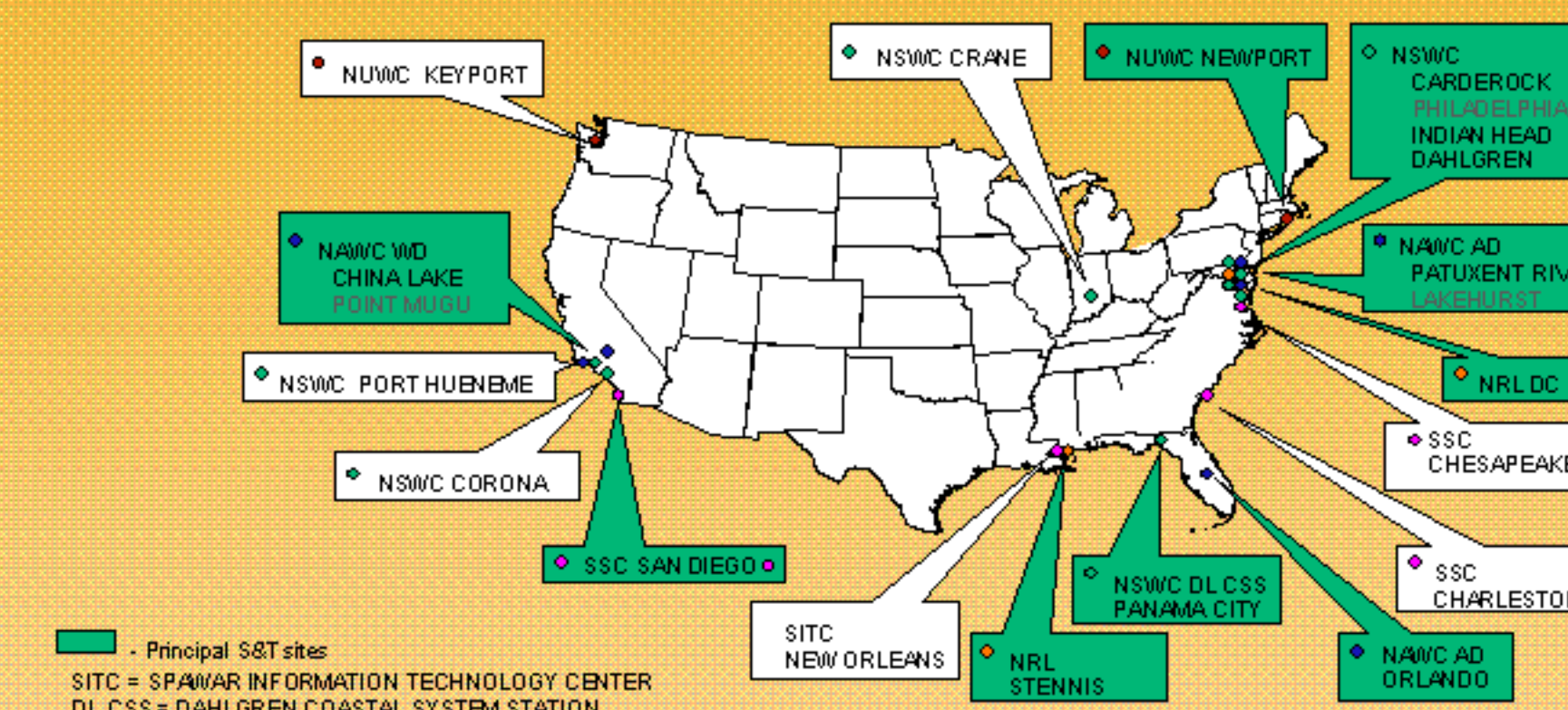
N-STAR is an initiative launched by the Naval Research Community to revitalize the Science & Technology base at the Navy’s Warfare Centers.

Science & Technology is now Global



Source: American Physical Society - APS News August/September 2000 -

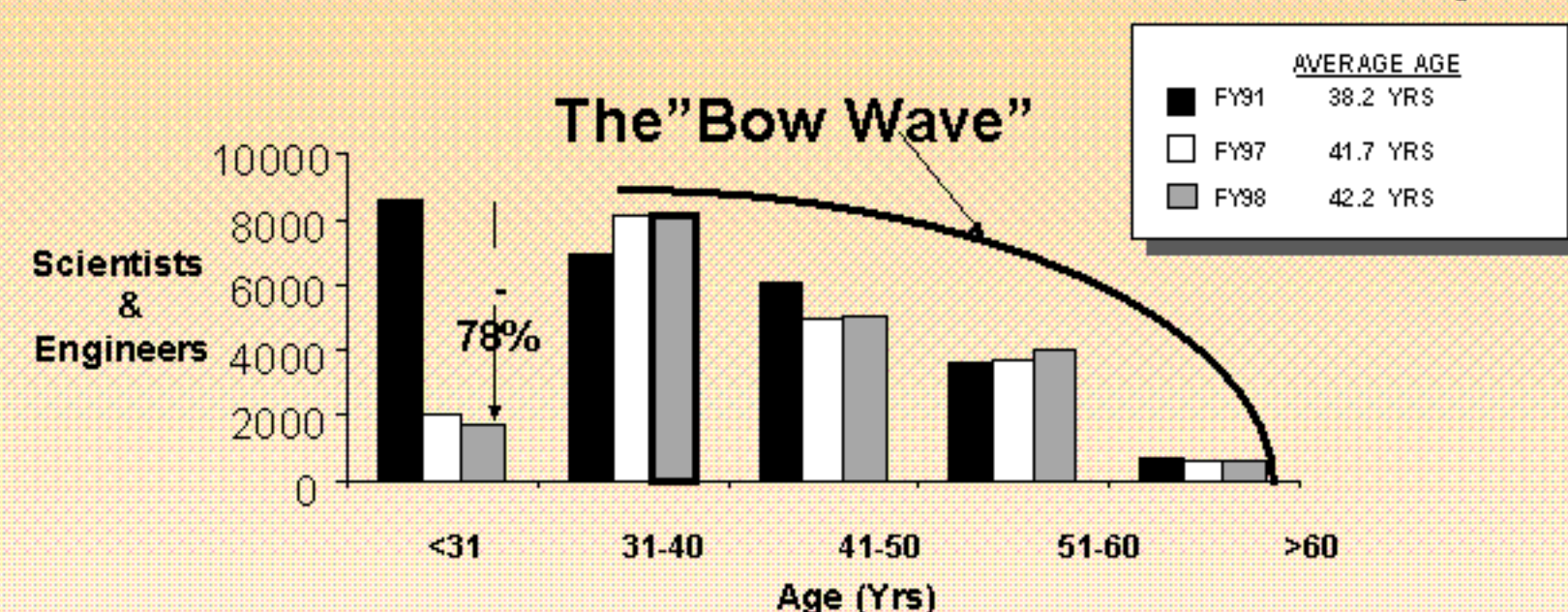
Naval R&D Centers



Providing the Bridge from S&T to the Fleet

Demographic Issue

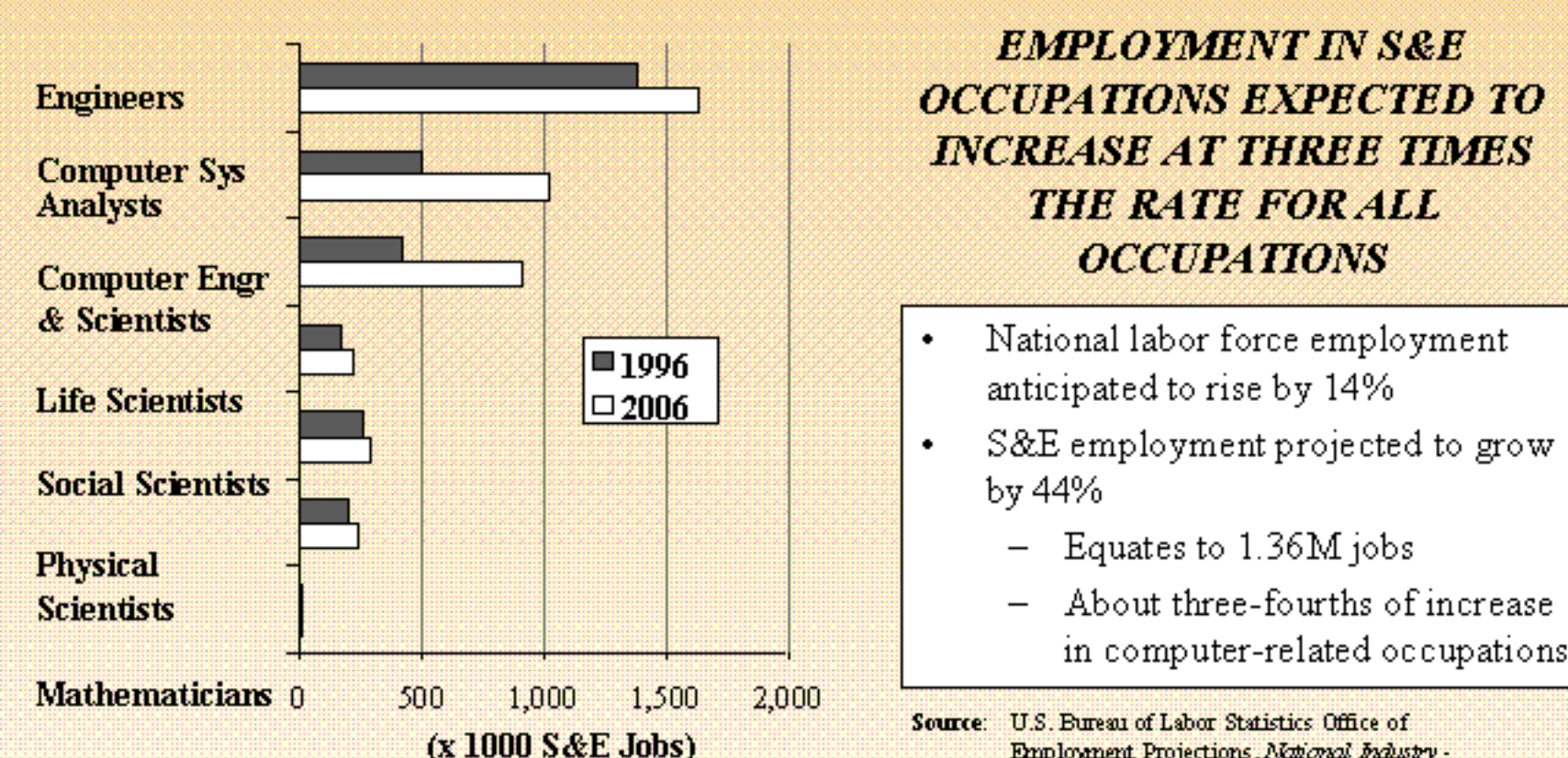
Naval Warfare Centers and Research Laboratory



SOURCE: DTIC/DMDIC (DEFENSE CIVILIAN PERSONNEL DATA SYSTEM, AUG 99) NSWC EXCLUDES KWAS

Must Develop Next Generation of Scientists & Technologists

NATIONAL S&E EMPLOYMENT PROJECTIONS 1996-2006



SOURCE: U.S. Bureau of Labor Statistics Office of Employment Projections, National Industry - Occupation Employment Projections, 1996-2006.

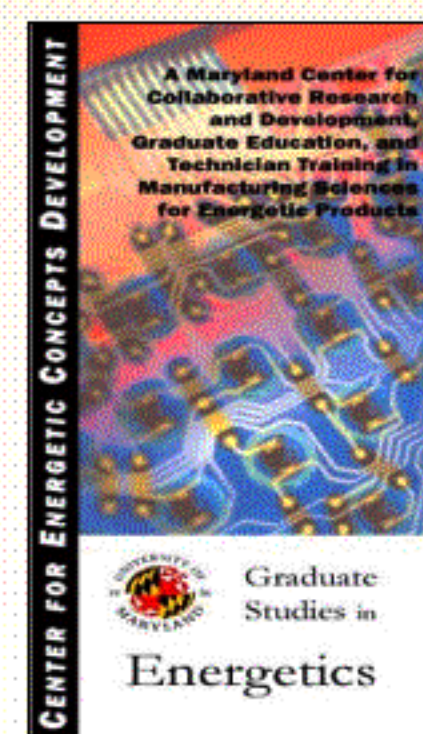
N-STAR Strategic Vision

...recruit the nation’s brightest young scientists and technology experts to the Navy and Marine Corps team...enable us to assemble the critical mass of highly skilled professionals needed to maintain the country’s technological edge.

Focus on University – Navy R&D Center Connection

The Center for Energetic Concepts Development

- Fostering continued advancements in energetics manufacturing, & research
- Educating the next generation of energetics experts



A 21st Century Partnership in Energetics

ONR Undersea Weapons University/Laboratory Initiative

Disciplines

- Acoustics
- Electrical Engineering
- Information Science
- Physics
- Mathematics
- Chemistry
- Mechanical Engineering

Undersea Weaponry Core Technology Areas

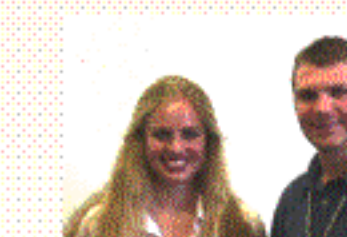
- Guidance and Control
Sensors, Signal Processing, Planning & Control
- Energy Conversion
Power Sources, Motors
- Hydrodynamics
Control Surface, Propulsors, Drag & Noise Reduction
- Warheads
Explosives, Detonators, Fuzes

Ten New PhDs per year will be result

N-STAR - Focusing on Talent

25 New S&E's working on Navy Projects

Rachel - "Feels Navy S&T is the ideal environment to explore her love of math and engineering"



Rachel Goshorn, SSC SD & UCSD PhD candidate. Served as an RA at the UCSD Computer Vision and Robotics lab.

Brandon - "Enjoys working most on research with real applications."

Brandon Zeidler, potential SSC SD hire & UCSD PhD candidate. These topic involves coding techniques in a fiber optic channel.

Their Project: Robust Tactical Networks

Design of robust antennas and waveforms and schemes for adaptively controlling transmit powers and dynamic routing.



Dr. James Zeidler (Mentor)
Author of 50 peer reviewed journal articles, 6 book chapters, and 40 invited papers. Elected fellow of IEEE in 1994.

A 21st Century Partnership in Energetics

Ten New PhDs per year will be result

Focus on University – Navy R&D Center Connection