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## NPS in the News

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Monterey, California, Naval Postgraduate School

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## **NPS IN THE NEWS**

### **February 15, 2002**

**NAVAL POSTGRADUATE SCHOOL FACULTY HAVE BEEN PROFILED IN SEVERAL RECENT ARTICLES IN NATIONAL AND LOCAL PAPERS.** These include electrical and computer engineering Prof. John McEachen on cyber security software to detect network intrusions; Rudy Panholzer, Dean of the School of Engineering and Applied Sciences, on the newest NPS satellite project; and national security affairs Prof. Glenn Robinson on Palestine after Arafat. Several noted visitors -- Chief of Naval Operation ADM Vern Clark and Undersecretary of Defense Dr. Dov Zakheim -- have also been featured.

**NPS PROF. NORMAN SCHNEIDEWIND RECEIVED THE "RELIABILITY ENGINEER OF THE YEAR" AWARD LAST MONTH FROM THE INSTITUTE FOR ELECTRICAL AND ELECTRONIC ENGINEERS.** The award, presented in Seattle, was "in recognition of his contributions to software reliability modeling and reliability leadership of key National purpose programs, such as the Space Shuttle Program."

**CAPT DAN BURSCH (NPS, '91) AND INTERNATIONAL SPACE STATION COMMANDER YURY ONUFRIENKO COMPLETED A COMPLEX SPACE "WALK" AROUND THE ISS LAST MONTH.** The EVA lasted 5 hours and 59 minutes, during which Bursch, ISS flight engineer, and Onufrienko installed six thruster deflector shields at the rear of the Zvezda Service Module, three materials experiments, a physics experiment, a ham radio antenna, and replaced a device to measure material from the thrusters. Additional details are available at [HYPERLINK "http://spaceflight.nasa.gov/station/"](http://spaceflight.nasa.gov/station/)  
<http://spaceflight.nasa.gov/station/>.

**AN AERONAUTICS AND ASTRONAUTICS PROFESSOR AT NPS RECEIVED THE INSTITUTION'S TOP RESEARCH AWARD IN DECEMBER FOR HIS BREAKTHROUGH STUDIES OF COMPLEX CONTROL PROBLEMS.** I. Michael Ross earned the award for his development of new, more efficient numerical techniques to routinely solve problems that were once considered quite difficult. "We are furthering the theory and exploring ways this new approach can solve practical problems such as enhancing the mission of unmanned aerial vehicles like Globalhawk, spacecraft swarm formation design, and vibration control of flexible bodies," Ross said.

**NPS PHYSICS PROF. WILLIAM COLSON HAS BEEN NAMED A FELLOW OF THE AMERICAN PHYSICAL SOCIETY FOR OUTSTANDING THEORETICAL CONTRIBUTIONS TO THE FUNDAMENTAL UNDERSTANDING OF FREE ELECTRON LASERS.** Colson has been a pioneer in both the theoretical development and practical application of this special class of high-powered lasers. The theory, first put forward over 20 years ago, is being applied worldwide in medicine and micromachining processes, while the Navy is currently

studying the feasibility of shipboard lasers for self-defense. Colson joins a highly select group of physicists who have been designated Fellows of the American Physical Society.

**RETIRED VICE ADM. ARTHUR CEBROWSKI (NPS, '71) IS NOW DIRECTOR OF FORCE TRANSFORMATION.** "Art Cebrowski is the perfect guy to promote and analyze our transformation efforts," Secretary of Defense Donald Rumsfeld said in announcing Cebrowski's appointment late last year. "I chose him for his broad military experience, his strong credentials in joint operations and information technology and his grasp of cultural and technical issues involved in transformation." Cebrowski will lead the effort in evaluating the transformation activities of each of the military departments. He will recommend steps needed to integrate them into other ongoing transformation activities. He will also monitor ongoing experimentation programs encompassing activities involving risk management and associated metrics. These efforts will link transformation to the broad elements of national and departmental strategy. Information on the defense transformation initiative is available at <http://www.defenselink.mil/>.

**THE MISSION OF THE NAVAL POSTGRADUATE SCHOOL IS TO ENHANCE U.S. NATIONAL SECURITY THROUGH GRADUATE AND EXECUTIVE EDUCATION PROGRAMS FOCUSING ON THE UNIQUE NEEDS OF MILITARY LEADERS, WITH RESEARCH AND ADVANCED STUDIES DIRECTED TOWARDS THE NEEDS OF THE NAVY AND DOD.** "Our goals are to increase the combat effectiveness of the armed forces of the U.S. and its allies, and to contribute to fundamental scientific, engineering, policy, and operational advances that support the Navy, DOD, and other national security establishments," says NPS Superintendent Rear Adm. David R. Ellison.

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