



ITACS

Information Technology and Communications Services

Naval Postgraduate School, Monterey, California

Tech News

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50th Anniversary of Computing at NPS

On **27 August**, the 50th anniversary of computing at NPS was celebrated with a one-day symposium held in the Ballroom at NPS. The event began with a welcome by Superintendent **RADM Patrick Dunne**, who read a letter from **DoN CIO Dave Wennergren** congratulating NPS on the auspicious anniversary. **Dr. Christine Cermak** was emcee for the morning panel.

Several hundred representatives from industry, former IT staff, history buffs, faculty and members of the community gathered to hear **Doug Williams** describe the founding and growth of computing services at NPS, **Dave Norman** detail the rise of networking on campus, and **Dr. Don Brutzman** deliver a fond remembrance of **Dr. Richard Hamming**. **Dr. Mark Pullen** delivered the morning keynote address, attributing the rise of digital computing and the commercial Internet to the research done by DoD starting from the 1940s.

The afternoon emcee, **Dr. Peter Denning**, set the stage for the afternoon's focus on future trends by describing the propagation of innovation, before introducing each speaker. **Dr. Robert Kahn** touted digital object infrastructure and the ability to store objects on the Internet, to identify and retrieve them, as an important element in future computing. **Gordon Eubanks**, an NPS alumni, discussed the concept of "governance" as a critical element in computing, while local **Professor Mike Zyda** stressed simulation and visualization as important directions in entertainment, education and training. **Dr. Bud Tribble** demonstrated search and retrieval as key elements of future operating systems. **Dr. Greg Papadopoulos** limited himself to predictions in a 5-year timeframe, decrying the theme "The Next 50 Years of DoD Computing" with "You expect me to predict what??" **Dr. Christopher Jehn**, the last speaker, delivered a call to action regarding vendor-integrated supercomputing.

The symposium was videotaped by **John Sanders**, Director of University Relations.

Monterey Bay DoDNet

On September 23, signatories from **DLI, DMDC, FNMOC, NPS, NRL** and the **National Weather Service** will meet in the NPS Superintendent's conference room to formalize the joint agreement recognizing DoDNet, the optical fiber Department of Defense network linking the various commands on the Peninsula.

Planning for the network began in 2002, as a cooperative effort with the City of Monterey, NPS and the other Peninsula DoD organizations.

NPS telephone and data circuits between the main campus and the Annex have been tested, and are now in production. Implementation of links to DMDC and FNMOC are waiting for a vendor maintenance agreement, which will be effective 1 October.

Mainframe Upgrade

The **zVM** production systems from the old IBM 390/9672-R24 mainframe were successfully moved to the new **IBM z800 Model 2066-OEZ1** mainframe at the end of July. Two operating systems, **zVM** and **OS/390**, have shared the old mainframe for 7 years. Rather than upgrading to a single new mainframe, ITAC's **Jim Hart** analyzed costs and capabilities, and found significant saving in purchasing two smaller mainframes, each running one operating system. The second new mainframe, due this fall, will be a **z890 Type 2086-A04** for **OS/390**. This 3-CPU, 130 MIPS, 64-bit operating system will run concurrently with the existing IBM 390/9672-R24 mainframe through the winter. Migration from the old **OS/390** system will take 6-9 months, since all operating system and OEM vendor products must be freshly assembled, linked and installed. Existing **MVS** production systems will run on the old mainframe during the build-out of the new machine.

Computer History Display

An exhibit of IT-related artifacts has been on display in the hallway in front of the Chapel in Herrmann Hall for the past week. Computer Center memorabilia, as well as hardware, networking and software artifacts are on view.