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2009-05

## Milestone Dates for NPS at Monterey

Naval Postgraduate School, Monterey, CA.

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## Milestone Dates for NPS at Monterey

| Date             | Event  | Notes  |
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| <b>The 1950s</b> |  |  |
| December 1951    | <b>Postgraduate School</b> moved from Annapolis to Monterey  |  |
| February 1952    | NPS formal dedication  |  |
| Summer 1953      | Acceptance testing completed for the <b>Computer Research Corporation computer, model 102A</b> , used for “general purpose scientific applications”; <b>CRC 102A</b> installed in the <b>Math Department, 2<sup>nd</sup> floor Root Hall</b> | <b>First computer</b> on the NPS campus, procured by <b>Prof. Warren R. Church</b> . Soon after installation, CRC was taken over by the National Cash Register company, so the computer was called <b>NCR 102A</b> . |
| Late 1959        | Computing Facility “converted from the Lobby of Spanagel Hall”; separated from the Math Department for the first time.   | <b>Professor Elmo Stewart</b> was Director.  |
| <b>The 1960s</b> |  |  |
| January 1960     | <b>Control Data Corporation 1604 installed – Serial #1 Seymour Cray</b> supervised installation.   | The fastest computer in the world at the time. The first computer to be fully transistorized.  |
|                  | <b>NANWEP</b> (Naval Numerical Weather Prediction) moved to Monterey to share use of the CDC 1604; collocated with NPS Meteorology Department.   | Stayed to become Fleet Numerical Oceanographic Center, later Fleet Numerical Meteorology and Oceanographic Center.   |
|                  | <b>Ed Ward</b> was hired as the first software programmer.   |  |
| 1960             | <b>NCR 102A</b> moved from Root Hall 2 <sup>nd</sup> floor to the converted lobby of Spanagel Hall (the new Computer Facility).  | A crane was needed, as there was no elevator in Root Hall until 2007.  |
| July 1961        | <b>SABIRS</b> provided operational service to Library patrons for  | Selected <b>Automatic Bibliographic Information Retrieval System</b> ; ran on the CDC 1604.  |

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|                 | automated information retrieval (punched cards, batch processing and magnetic tapes).  |  |
| July 1961       | <b>Doug Williams</b> arrived from Scotland as Visiting Professor, stayed as “Acting Director of the Computer Facility”. NCR 102A was retired.  | Two new CDC 160A minicomputers were added to campus computing.   |
| 1962            | <b>Doug Williams</b> is invited to join the NPS faculty as Professor of Mathematics and Director of the Computer Facility. Five programmers are hired, including <b>Roger Hilleary</b> (September). CDC 160 installed. | <b>Consulting Office</b> is established to render “in-depth personal assistance”.<br><br>First desk-sized mini-computer. |
| April 1963      | “U. S. Naval Postgraduate School owns four digital computers; CDC 1604, IBM 1401 and two CDC 160’s.”<br>Carmel school children attend a computer workshop at NPS.  | The IBM 1401 was used as an I/O processor for the CDC 1604.  |
| August 1964     | <b>Network</b> topologies for internetwork development first published.  | <b>Paul Baran</b> , “ <i>On Distributed Communications</i> ”, RAND.  |
| Mid-1960s       | EE Department installed a graphics display with a track-ball “joy stick”.  | Data Display, Inc. custom-built the computer to specifications of Prof. “ <b>Mitch</b> ” <b>Cotton</b> .                 |
| September 1966  | 85% of the School’s 1500 students get computer training.   |  |
| 15 June 1967    | Groundbreaking for Ingersoll Hall  |  |
| 1967            | <b>IBM 360/67</b> installed in Spanagel Hall Computer Facility.  | First general purpose mainframe computer ever assembled. First computer to have virtual storage.                         |
| June 1967       | <b>CDC 1604</b> withdrawn from service.  |  |
| 15 October 1968 | Dedication of Ingersoll Hall.  | First space especially designed for computer operations at NPS.  |
| 1969            | Computer Facility moved  |  |

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|               | from Spanagel to Ingersoll Hall.<br><b>Dave Norman</b> hired as Operations Manager.   |  |
| October 1969  | First ARPANET link, between Stanford Research Institute and UCLA.   | First wide area packet switching network; led to development of TCP/IP.  |
| December 1969 | Dedication of <b>W.R. Church Computer Center</b> .  | Named in honor of <b>Professor Warren Randolph Church</b> , late Chairman of the NPS Mathematics Department (1947-1966).                                   |
| The 1970s     |   |  |
| 1970          | ARPANET hosts started using Network Control Protocol (NCP).<br>First <b>Computer Center newsletters</b> were published.   | First host-to-host protocol.<br><br><b>Roger Hilleary</b> was editor 1970-1985.  |
| 1971          | NPS connected to ARPANET by a Terminal Access Controller (TAC):<br><b>nps.arpa</b><br>IBM invented the 8" floppy disk.  | The TAC allowed text-only messaging.<br><br>Used for loading microcode into the IBM3330 diskpack.  |
| 1972          | <b>Ray Tomlinson</b> of BBN modified his e-mail program for ARPANET. W.R. Church Computer Center Library was established.<br><b>SABIRS</b> re-created for Library information retrieval.<br><b>Dr. Gary Kildall</b> wrote PL/I.<br>Intel 8008 microprocessor debuted. | First use of the @ sign in e-mail addressing.<br><br>PL/I -- first programming language for the Intel 4004 microprocessor.<br>8-bit word = 256 characters. |
| 1973          | 75% of all ARPANET traffic was e-mail.<br><b>Dr. Gary Kildall</b> wrote PL/M for the Intel 8008 CPU.  | NPS Professor.   |
| 1974          | <b>Dr. Gary Kildall</b> wrote CP/M.<br>His disk operating system was "completed by 1974".   | Control Program/Microcomputer allowed his students at NPS to read and write files to and from disk.  |

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|               | Fleet Numerical Weather Central moved from NPS to its current Airport Road location.   |   |
| 1975          | <b>Telenet</b> network established.  | First commercial packet-switching network; first value-added network (VAN).   |
| mid-1970s     | Local area Ethernet networks were established in some buildings at NPS.  | The campus backbone was still a decade away.  |
| 1976          | <b>Dr. Gary Kildall</b> left the Navy and NPS to found Digital Research.<br><b>Dr. Richard Hamming</b> joined the Computer Science faculty.<br>The 5 ¼" floppy disk premiered.<br>Intel 8080 introduced. | “The purpose of computing is insight, not numbers” per Dr. Hamming.<br>64 kilobyte microprocessor.                  |
| 1977          | Digital Research upgraded CP/M, created BIOS, added an editor, assembler, debugger and utilities.  | <b>First desktop operating system</b> – founded desktop computing.  |
| 1979          | Emoticons (“smilies”) were suggested by <b>Kevin MacKenzie</b> on ARPANET.<br>USENET established.  | ☺<br>UUCP e-mail, file transfer.  |
| The 1980s     |  |   |
| December 1980 | <b>IBM 3033AP</b> (System 370) installed. 9 MIPS.<br>Timesharing terminals.<br><b>TRAC-Monterey</b> established.   | 14-year-old IBM 360/67 was retired.<br><br>U.S. Army research center for advanced distributed computer simulations. |
| 1980          | Micro-Network lab had the first campus-wide PC services.   | <b>Kathy Strutynski</b> introduced Xerox workstations for graphics, Zenith and IBM PCs for word processing.         |
| 1 April 1981  | IBM 2314 Disks removed from VM/CMS after 13 years service.   | <b>New mass storage system (IBM 3850)</b> gave users 8 times more space.  |
| June 1981     | <b>Dr. Gary Kildall’s BYTE</b> article   | 16-bit processors are “already outmoded”  |
| January 1983  | ARPANET switched to  | “Official birth date of the <b>Internet</b> ”   |

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|                            | <b>TCP/IP</b><br>First PC GUI (Apple's Lisa)   | – 1 January 1983   |
| 10 November 1983           | Microsoft formally announced Windows operating system.   |  |
| 1984                       | MILNET split off ARPANET   | 68 of the 113 ARPANET nodes went to MILNET, including NPS.   |
| 20 November 1985           | Windows 1.0 was shipped.   |  |
| 1986                       | NPS joined BITNET:<br><b>navpgs.</b><br>UPS installed (batteries and diesel generator) in Ingersoll.<br>NSFNET was created.<br>BARNET established.     | Universal global e-mail.   |
| January 1987               | Aldus Pagemaker 1.0 released.  | First WYSIWYG desktop-publishing program for the PC.   |
| 1987                       | Management Information Systems (MIS) department created.   | Administrative computing.  |
| 23 June 1987               | TSR NK28Nov860052A established NPS's DDN link.   | Declared operational by message dated 23 June 87.  |
| 1988                       | Bridge installed between RSCS and Internet on DDN.   |  |
| 7 March 1988               | IBM mainframe "operational" as a host on MILNET (DDN); allowed to pass traffic.  | IBM Series I computer with EDX operating system provided the link to DDN.  |
| 21 May 1988<br>27 May 1988 | VM RSCS networking node name changed from <b>NPGVM1</b> to <b>NAVPGS</b> .<br>DDN Port 33 upgraded to 7.0 from 6.0.                                    | Made the local node name match our BITNET node name.   |
| 4 November 1988            | <b>NOTIS</b> Release 4.4 up in test mode on <b>MVS</b> ; first online catalog for <b>Dudley Knox Library</b> .<br><b>BOSUN</b> was the catalog's name. | <b>Boolean searching</b> available in the NPS Library catalog for the first time. A contest to name the catalog was won by Doug Williams;<br><b>Bibliographic On-line System Utilis Nautis</b> ("useful to sailors") |
| 30 November 1988           | <b>nps.arpa</b> became <b>nps.navy.mil</b> , per DDN   | Effective at the NIC 23 November; changed locally 30 November.   |

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|                  | Management Bulletin 42, 2 November 1988.   |  |
| 1989             | <b>Mike Spencer</b> was the first MIS Director.  | Administrative support network ( <b>Management Information Systems</b> ).  |
|                  | <b>The 1990s</b>   |  |
| 1990             | ARPANET decommissioned; replaced by DDN and NSFNET.  |  |
| 22 May 1990      | Windows 3.0 was released.  | The “desktop revolution”.  |
| 19 December 1990 | <b>Amdahl 5990</b> mainframe replaced IBM 370 system: 40 MIPS.   | Moving away from dedicated terminals to <b>network-attached PCs</b> .  |
| 31 December 1990 | <b>NAVPGSCOLNOTE 5400</b> , Staff Reorganization   | <b>Computer and Information Services</b> ’s code changed from 0141 to 05   |
| 1991             | <b>Cray X/MP (E98)</b> supercomputer installed. Classified “Warlab” established.<br><br>BITNET discontinued. NPS DDN Node 33 deinstalled.  | <b>Steve Lamont</b> specified and set up the graphics lab. Classified thesis production, war gaming and research. Network traffic routed through BARRNET.  |
| 1992             | <b>Scientific Visualization Lab.</b><br><b>Cray Y-MP/EL</b> replaced the X/MP.   | <b>Mike McCann</b> and <b>Matthew Koebbe</b> directed services.  |
| 18 December 1992 | <b>Glasgow Hall dedicated;</b> named after <b>Dr. Roy S. Glasgow, Dean of NPS 1949-1960.</b>   | Glasgow Hall was the first building on campus wired from the ground up for high-speed networking.  |
| 1993             | Learning Resource Centers (LRCs) established.<br>MIS became <b>Information Technology Services (ITS)</b> .<br><b>Gopher</b> was the Web browser, soon replaced by <b>Mosaic</b> .<br><br>Sun Sparc10 UNIX workstation replaced mainframe timesharing as the primary user platform. NPS campus backbone | Glasgow Hall.<br><br>Served 1200+ administrative client applications and systems at NPS. Developed at NCSA; first popular graphical browser for the World Wide Web.<br>Mainframe role changed to “large scale data processing”.<br><br>Thicknet; 10MB/second.<br><br>“Multicasting”; WRCC dedicated a Sun Sparcstation 2 as MBone router |

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|                 | <p>upgraded.<br/><b>MBONE</b> – live video over Internet</p> <p>Pentium processor released.</p>  | <p>supporting audio/video/data feeds.<br/>Support for graphics/music.</p>   |
| 1994            | <p><b>Yahoo</b> was founded.<br/>Internet celebrated 25 years.<br/>First spam was sent.<br/>First banner ads appeared.<br/>First <b>NPS Home Page</b>.</p>   | <p>FTP is still more used than the Web (number of packets and percentage of bytes of traffic).</p> <p><b>Charles Taylor</b> was Webmaster.</p>  |
| October 1994    | <p><b>Netscape</b> Web browser released.</p>   | <p>Start of the Internet Boom.</p>  |
| 1995            | <p><b>Cray J-94</b> replaced the Y-MP/EL.</p> <p><b>BOSUN</b>, the Library's online catalog, moved from MVS to UNIX.<br/>Major network upgrade begins.</p>   | <p>Data modeling, data migration, direct connections to the <b>StorageTek silo</b> and its 6,000 tape cartridges.<br/><b>First Web interface to BOSUN</b>.</p> <p>IAA begins ATM network.</p> |
| 1 November 1995 | <p><b>David F. Norman</b> appointed as Deputy Associate Provost for Computing and Information Systems (CIS).</p>   | <p>Concurrently served as Director of Academic and Administrative Computing.</p>  |
| 1996            | <p><b>Academic and Computing Services</b> replaced ITS as a division of <b>Computing and Information Services</b>.<br/>NPS Home Page and Webmaster are "owned" by CIS.<br/><b>Netscape</b> replaced <b>Mosaic</b>.</p> | <p>AACS (Code 51) and CIS (Code 05).</p> <p>80% of all Web surfers used <b>Netscape</b>.</p>  |
| 1997            | <p>NPS Home Page redesigned with a porthole appearance.<br/><b>IBM 9672</b> mainframe replaced the <b>Amdahl 5990</b>.</p>   | <p><b>DMDC</b> is the major tenant using the mainframe.</p>   |
| 1998            | <p>SECNAV published</p>  | <p><b>IT21</b> standards made Microsoft</p>   |



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|                  | <p>guidelines for <b>WorldWide Web</b> use; compliance.</p> <p><b>Internet Explorer</b> began to replace Netscape.</p> <p>PCs edge out UNIX as primary computing platform.</p> <p>Consulting Office replaced by PC Help Desk.</p> <p><b>Google</b> was started by students at Stanford University.</p> <p>A-76/ABC Studies begin at NPS.</p> <p>Laptop and portable computing.</p> | Windows the dominant operating system.   |
| 10 April 1998    | <p>Assoc. Prof. <b>Barry Frew</b> appointed Executive Education Director by NPS Provost <b>Richard Elster</b>.</p>   | Requested by the CNO as “Senior Honors Course”; becomes the <b>Center for Executive Education</b> .    |
| 13 May 1998      | <p>05 Web servers accredited: essex.nps.navy.mil (131.120.131.16) and <a href="http://www.nps.navy.mil">www.nps.navy.mil</a> (131.120.254.65)</p>  | <b>SECNAVINST 5329.3</b> ; security accreditation signed by <b>Robert C. Chaplin</b> , Superintendent. |
| 1 June 1998      | <p>E-mail converted from <b>Groupwise</b> to MS <b>Exchange</b>.</p>   | Campus administrative mail standardized, per RADM Chaplin’s directive.                                 |
| 1 July 1998      | <p><b>Tom Halwachs</b> appointed CIO and Associate Provost for IT</p>  |  |
| 25 October 1998  | <p>E-mail PAT began to plan consolidation of servers and clients for NPS e-mail systems.</p>   | In response to the Superintendent’s directive that all campus mail be moved to Microsoft Exchange.     |
| 12 February 1999 | <p>IAA completes “leading edge network” for NPS. Network Operations Center (<b>NOC</b>) established.</p>   | Fiber Optic cable between buildings on campus.   |
| 19 February 1999 | <p>“Policy on Appropriate Use of Naval Postgraduate School Computing and Information Systems” established.</p>   | NAVPGSCOL Instruction 5230.4B, signed by <b>Robert C. Chaplin</b> , Superintendent.                    |
| March 1999       | <p>Melissa virus hits NPS.</p>   | First major virus outbreak: auto-executing Visual Basic for  |

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|                 |  | Applications (VBA).  |
| 18 July 1999    | “NPS Computer Support Realignment”, per NPS Superintendent.  | All computer support billets on campus are reassigned to Code 05.  |
|                 | <b>The New Millenium</b>   |  |
| 2000            | <b>Judy Willis</b> leads a successful Y2K team to update software/systems. Linux disk servers first installed.<br><b>Python</b> student management system implemented.<br>Enterprise Storage Server backup.<br>Campus Web presence expanded. | Y2K efforts began in 1997.<br><br>First consolidated hardware, software and application inventory for both Administrative and Academic functions.<br><br>“ <b>Netcentricity</b> ”. |
| May 2000        | Love Bug virus, quite virulent, does little damage at NPS.   | Self-propagating, aggressive Visual Basic script.  |
| 2001            | <b>Google</b> installed on the NPS Home Page.<br><b>Wireless</b> network installed.<br>Desktop and laptop machines are standardized via imaging.<br>FA Study impacts IT staff.<br>Jimmy Wales co-founded <b>Wikipedia</b> with Larry Sanger. | IT Staff attrition.<br>Articles written by volunteer subject-matter experts.   |
| 22 Feb 2001     | <b>NPS Home Page</b> featuring Herrmann Hall image rolled out; designed by LT <b>Warren Yu</b> .   | Improved navigation, unified search – fast, clean and “one click away” design.   |
| 22 October 2001 | Departmental mail servers shut down; <b>Exchange mail servers</b> are centralized; <b>Outlook Web Access</b> is the standard for remote access to e-mail.  | “The only mail servers allowed on campus will be those central mail servers operated by the Information Technology Department...”  |
| 2002            | IT is restructured to include communications/telephone support.<br>Junk mail increases 700%.   | <b>Information Technology and Communication Services (ITACS)</b> .   |

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|          | <p><b>Dr. Christine Cermak</b> appointed as Executive CIO.<br/> Network upgrade from ATM to Gigabit technology.<br/> Avaya phone system installed.<br/> Voice Over IP (VOIP) implemented in LaMesa.<br/> <b>IT Task Force</b> established.<br/> Consolidation of Unix e-mail servers completed.<br/> NPS Homeland Security Digital Library (<b>HSDL</b>) established.</p>                       | <p>IAA.<br/> <b>Joe Bornino</b>, May 2002.<br/> <br/> Co-located with the Dudley Knox Library at NPS.</p>   |
| 2003     | <p>FA Study completed.<br/> <b>IT Strategic Plan</b> published.<br/> Implementation of Most Efficient Organization (MEO) begins.<br/> Information Systems Security Manager (ISSM) re-established.</p>   | <p><b>Terri Brutzman.</b></p>   |
| May 2003 | <p>First monthly e-newsletter <i>Technology News</i> distributed</p>  | <p>Strategic priority for frequent, timely and accessible IT information.</p>   |
| 2004     | <p>Technology Assistance Center (<b>TAC</b>) replaces Help Desk.<br/> Education and Research Network (<b>ERN</b>) established.<br/> Access to <b>Internet2</b>.<br/> Planning for NMCI.<br/> Webcast-in-a-Box trial.<br/> First ITACS Customer Survey.<br/> Rollout of “smart cards”, <b>PKI</b>.<br/> IBM 390/9672-R24 mainframe replaced by <b>IBM z800 Model 2066-OEZ1</b> mainframe and</p> | <p>The “edu project”.<br/> <br/> Streaming media.<br/> <br/> <b>IBM 390</b> served for seven years, running both zVM and OS/390; smaller machines each run a single operating system.<br/> Issued annually.</p> |

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|                | <b>IBM z890 Type 2086-A04.</b><br>First ITACS Accountability Report is completed.  |  |
| 20 August 2004 | NPS celebrates 50 years of educational computing.  | “A gathering of giants...” <b>Dr. J. Mark Pullen</b> was keynote speaker.  |
| December 2004  | NPS wireless experts help with relief efforts after the Asian tsunami by setting up wireless networks for communication. | <b>Brian D. Steckler and J.P. Pierson.</b> ** link to: <i>"Brian Steckler, an information science lecturer at the Naval Postgraduate School in Monterey, Calif., and J.P. Pierson, a senior network engineer at the school, went to Thailand shortly after the tsunami to set up the Coalition Operating Area Surveillance and Targeting System (COASTS), a wireless, long-haul network. They quickly converted COASTS to help support relief operations.</i><br><br><i>Steckler said he now wants to develop "fly-away kits" for such operations based on easy-to-use commercial products. The kits would consist of about two or three boxes weighing a few hundred pounds. Each would include a stand-alone power source (solar or battery), a satellite dish, a modem, wireless network gear, beyond-line-of-sight antennas, routers, switches or connectors, uninterruptible power supply, generators and software. ..."</i><br><a href="http://www.fcw.com/print/11_4/news/88069-1.html">http://www.fcw.com/print/11_4/news/88069-1.html</a> |
| 2 January 2005 | Monterey Peninsula <b>DoDNet</b> (NPS, DMDC, FNMOC, NRL, DLI, and National Weather Service) MOA signed.                  | Optical fiber network to link the various commands, increase operational efficiency and reduce communication costs.  |
| February 2005  | Telnet port 23 closed.   | Old ARPANET protocol replaced by Secure Shell (SSH).   |
| 24 March 2005  | <b>Dudley Knox Library</b> named 2004 Federal Library of the Year from more than 2,000 entries.                          | Link to: ** 2004 Federal Library/Information Center of the Year Large Library/Information Center Category: <i>The Dudley Knox Library at the Naval Postgraduate School, Monterey, Calif., is recognized nationally as a leader in the delivery of government and defense information. It provides an information-rich environment for both the Naval</i>   |

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|               |  | <p><i>Postgraduate School's student body and the greater Department of Defense worldwide. The library is also cited for taking initiatives that bring a critical mass of content directly to the center of Navy work, including the creation of a Homeland Security Digital Library, the provision of extensive virtual reference services and a significant exhibit on D-Day that raised the visibility of the library not only within the local agency but nationally. Maxine Reneker, the associate provost for Library and Information Resources, and Capt. Steve Linnell, representing Naval Education and Training, accepted the award for the library at the 22nd Annual FLICC Forum on Federal Information Policies on March 24 at the Library of Congress in Washington, where they received their awards from Librarian of Congress James H. Billington.</i></p> |
| 25 March 2005 | NPS graduation ceremony was video-streamed around the world for the first time.  | <b>ADM Edmund P. Giambastiani Jr.</b> was the speaker.   |
| 2005          | <p>Streaming Media Project underway.<br/> VPN replaced CITRIX.<br/> <b>High Performance Computing (HPC)</b> Technical Manager appointed.<br/> Barracuda spam filter installed.<br/> Web-enabled Training and Tracking used for 2005 Information Assurance Awareness Training.<br/> NPS wireless experts aid in disaster relief after Hurricane Katrina by setting up networks.<br/> Educational Technology added to the NPS CIO structure.</p> | <p>Capture live data streams for IP or Web access.<br/> Secure remote access.</p> <p>Blocks 14M spam e-mails per year. Designed by ITACS Webmasters.</p> <p>Hastily Formed Networks – <b>Brian Steckler.</b></p> <p><b>Tracy Hammond</b> was the first Director; developed a LCM plan for classroom technology.</p>  |
| 2006          | <b>Navy Higher Education Information Technology Consortium</b> chartered.  | U.S. Naval Academy, Naval War College, NPS.  |

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|              | <p>Student Web applications hosted by dedicated server. Video Bridge and Video-Tele-Education group support 43 course segments in Winter Qtr. NPS joined <b>CENIC</b>, California’s research and higher education network (Internet2). Content Management System established on Library Website. Copiers replaced by multifunction machines. <b>Transition from .mil to .edu</b> completed! NPS HPC awarded an IBM p690 Power4+ SuperComputer.</p>   | <p>Project/research sites separated from production Web servers.</p> <p>Corporation for Education Network Initiatives in California.</p> <p>Separates content from presentation.</p> <p>Copy/print/FAX/scanners.</p> <p><b>ERN</b>—Education &amp; Research Network.<br/>870 GFlops max – most powerful system at NPS.</p>   |
| 2007         | <p>Disaster Recovery Plan formalized. Mesh Dynamics <b>wireless</b> network installed; Bradford Networks compliance verification appliance installed. <b>Next Generation Network</b> upgrade approved. Tripwire software installed on critical file servers. Migration of Web pages from nps.navy.mil to nps.edu. <i>Elluminate</i> system installed. 18 of the 74 classrooms at NPS installed multimedia presentation systems. NPS joins Quali, an open-source administrative systems initiative.</p> | <p>Continue IT services in severe disruption/disaster. <b>100% coverage</b> on campus. Allows various levels of access, including “guest”.</p> <p>Support IPv6, 10Gig Internet, 6K wall jacks. <b>File monitoring &amp; system integrity.</b> Per directive from NETWARCOM.</p> <p><b>Distance learning podcast</b> tool.</p> <p><b>Tom Halwachs</b>, Director of Financial Systems at NPS, is lead for Quali Financial Systems.</p> |
| October 2007 | <p><b>Homeland Security Digital Library</b> (HSDL) added its 50,000<sup>th</sup></p>   | <p>Digitized policy and strategy documents relating to homeland security.</p>  |

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| 2008                   | <p>Video Brick (<b>V-Brick</b>) replaced Webcast-in-a-Box.</p> <p>NPS Academic Video Webcast.</p> <p>Final migration from .mil to .edu</p> <p>TAC supports Microsoft Vista.</p> <p>Podcasting available for selected courses.</p> <p>Nominations open for IT ‘Who’s Who’ for the Centennial.</p> <p>High-resolution Sony 4K projector installed in the ME auditorium (4096x2160 pixels).</p> <p>Funding of Campus Emergency Communications System.</p> <p>NPS Director of Information Assurance and Privacy named.</p> <p>IT Strategic Plan updated.</p> <p>NPS joins Kualii Student development effort.</p> <p>NPS will move to Kualii Research Administration.</p> | <p><b>Streaming media</b> support.</p> <p>NAVCAST.</p> <p>Download course content to iPod, cell phones.</p> <p>“NPS Notables” recognizes contributions to NPS IT.</p> <p><i>AtHoc</i></p> <p>Mr. <b>Chris Gaucher</b>, an NPS 1996 graduate in IT Management.</p> <p><b>Tracy Hammond</b> is Director of Kualii Student Information Systems.</p> <p><b>Danielle Kuska</b> is lead for Kualii Research Administration.</p> |
| November/December 2008 | Delivery and installation of the Sun Blade supercomputer system.   | <b>Dr. Jeff Haferman</b> , HPC Technical Manager.   |
| January 2009           | New <b>IT Strategic Plan</b> approved.   |   |
| January 16, 2009       | High-speed connectivity to the Golf Course Annex Labs.   | Ribbon-cutting ceremony marked completion of a major effort.  |
| January 30, 2009       | <b>Hamming</b> dedication.   | <b>Teraflop Computing and Beyond</b>  |
| May 22, 2009           | <b>NPS Centennial:</b> beginning of a year-long celebration.   | <b>Technology Leadership: Our Heritage &amp; Our Mission</b>  |
| 2009                   | Campus telephone system upgrade  | Unified Communication Architecture  |