

## **CAEN Timeline 1983 – 2008**

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- 1983** College of Engineering establishes the Computer Aided Engineering Network (CAEN) as part of a plan to expand and intensify the research activities of the College in technology, management, computer-aided engineering, and communication. Richard L. Phillips is named the Director of CAEN. Daniel Atkins???
- September 1983** First group of 100 Apple Lisa computers are available for open computing use by all Engineering students in three labs (145 Chrysler Center, 2070 Dow, and the Engineering Library). The Lisas feature all the four characteristics for a modern workstation -- a full 16 bit CPU, a minimum of ½ megabyte of memory, a window management style of output display, and a mouse-controlled, menu selection style of input!
- September 1984** CAEN staff set up Apollo lab in East Engineering; Apple Lisa and 128K Macintosh and IBM XT labs emerge in UGLi (Shapiro Library) and Chrysler Center with Apple ImageWriter dot matrix printers
- April 1984** John Van Roekel named Director of CAEN
- January 1985** CAEN installs 16 UMnet/MTS lines in 2074 Dow lab – students can connect to MTS from Apple Lisa and IBM XT computers
- February 1985** CAEN goes “green” and begins recycling discarded computer paper
- July 1985** Macintoshes feature internal hard disk “HyperDrives” arrive
- August 1985** Dow Mezzanine Lab, CAEN’s 7<sup>th</sup> lab, opens as a premier public computer facility
- September 1985** First ten CAEN student counselors join over 100 student monitors employed by CAEN, starting pay is \$4.25
- September 1985** Apollo network boasts over one thousand megabytes (1GB) of online storage
- October 1985** New Macintosh bundles for students featuring 512K Macintosh, External Disk Drive, Imagewriter I, Carrying Case, and package of 10 diskettes sell for \$2090.00
- August 1986** Randy Frank becomes Director of Information Technology and CAEN
- August 1986** CAEN Hotline opens to support Apollo network of 120 nodes
- September 1986** CAEN staff develops MacMonitor “lab check-in” program to check students into the eight existing CAEN labs (111 Autolab, 151 Chrysler Center, Dow Mezzanine, 2340 EECS, 4440 EECS, 2271 G.G. Brown, and 3<sup>rd</sup> and 4<sup>th</sup> Floor Shapiro Library)

**July 1987** North Campus Proteon Ring now moves data at 80 megabits per second and connects CAEN's two Apollo rings (290 nodes) with departmental Ethernets

**September 1987** 30 Macintosh SE computers arrive along with 20 Macintosh II computers (15.67 MHz, 1MB RAM, 1 800K disk drive, 40 MB hard disk)

**September 1987** PC-NFS allows IBM PCs to file share with Apollo, Alliant, and Sun file servers

**January 1988** CAEN completes new machine room in Chrysler Center to hold storage exceeding 30 GB

**February 1988** Telnet becomes available on Macintosh computers

**April 1988** CAEN staff develop 4-CAEN automated voice response system (a.k.a. DecTalk) (CAEN FIRST!)

**June 1988** North Campus Apollo ring of 400 workstations splits into two rings

**July 1988** CAEN's very own Big Brother program monitors the network (CAEN FIRST!)

**August 1988** Apple Lisa support ends; Apollo DN 330 computers in Dow Mezzanine lab upgraded to 3 MB of RAM and Apollo 3000 & 4000 workstations upgraded to 8 MB of RAM and 170 MB Hard Disks

**September 1988** Viruses attack CAEN Macintosh labs and CAEN programmers develop Dr. Mac to come to the rescue (CAEN FIRST!)

**January 1989** IBM PS/2 model 70s arrive in the CAEN labs

**February 1989** Advanced Visualization Facility opens up in 145 Chrysler

**April 1989** 4327 EECS becomes first CAEN Lab to implement 24 hour card key access

**September 1989** Launchbreak (predecessor of KeyServer) for Macintoshes is developed at CAEN to check out software licenses on the network (CAEN FIRST!)

**September 1989** CAEN designs new university-wide student photo identification card (CAEN FIRST!)

**November 1989** First CAEN UNIX lab featuring DEC 3100 workstations opens at 2341 EECS

**August 1990** Online CAEN Request information system (caenhelp) becomes available at CAEN (CAEN FIRST!)

**September 1990** 24 hour access expands to all 18 CAEN labs (CAEN FIRST!)

<b>September 1990</b>	First joint CAEN-ITD lab opens up in North Campus Commons with 90 Macintosh IICI computers and 10 IBM RS/6000 workstations
<b>November 1990</b>	AFS (Andrew File System) becomes available on CAEN UNIX workstations
<b>November 1990</b>	CAEN installs Sun SPARCstation 1+ computers in labs
<b>June 1991</b>	CAEN upgrades the “backbone” network from Proteon Pronet-80 to FDDI (Fiber Distributed Data Interface) to transfer data at 100 MBits per second
<b>August 1991</b>	IBM PS/2 model 35 computers operate with Windows 3.1.1
<b>August 1991</b>	Macintosh System 7 OS arrives
<b>September 1991</b>	CAEN deploys new X Window System “look and feel” for all CAEN UNIX workstations
<b>January 1992</b>	IBM PS/2 Model 70 token ring switches over to Novell NetWare
<b>September 1992</b>	CAEN begins phase out of all Apollo computers in favor of UNIX workstations; CAEN network storage space expands to 250 GB
<b>September 1992</b>	KSR massively parallel computer (32 node, 1GB main memory, performance of over 1 gigaflop) becomes available
<b>January 1993</b>	ITD prepares for campus wide deployment of IFS
<b>March 1993</b>	TULIP project provides online access to 37 materials science journals
<b>April 1993</b>	Newly established Center for Parallel Computing announces account availability on KSR1
<b>November 1993</b>	Last Apollos exit labs
<b>January 1994</b>	The text-based Pine mail program on UNIX workstations becomes the most widely used email program
<b>April 8, 1994</b>	Faculty, staff and students join President James J. Duderstadt and six deans on North Campus to celebrate groundbreaking for the new Integrated Technology Instruction Center (ITIC) - a core facility planned to link the disciplines of architecture and urban planning, art, engineering and music, and information resources
<b>May 1994</b>	CAEN and the College make their appearance on the WWW
<b>June 1994</b>	Camp CAEN offers its first summer computer classes for high-school students ( <b>CAEN FIRST!</b> )

<b>January 2, 1996</b>	ITIC is renamed the Media Union and CAEN moves in as its first residents
<b>January 1996</b>	CAEN installs first PC cluster in the Media Union featuring the new Windows NT operating system
<b>November 1996</b>	The Media Conversion Facility (predecessor to Groundworks) opens next to the Hotline and offers new technology such as slidemakers, scanners, jazz and zip drives, and CD writers. Machines include: Dell GX Pro personal computers with 64 MB RAM, 200 MHz processor, 2 GB hard disk, running Windows NT 4.0, and Power Macintosh 8500/150 personal computer with 48 MB RAM, and a 1 GB hard drive
<b>March 1997</b>	Mobile computing arrives – a DHCP server provides IP connectivity to the public jacks in the Media Union. Students and staff members flood the CAEN Hotline to register their Ethernet cards in order to utilize this service
<b>September 1997</b>	AFS quotas increase to 75 MB
<b>August 1998</b>	ATM (Asynchronous Transfer Mode) replaces FDDI network technology at CAEN
<b>October 1998</b>	Adaptive technology workstations become available to make computers more accessible to students with disabilities.
<b>September 2000</b>	All PCs in Media Union upgraded to 128 MB RAM and converted to dual-boot Redhat 6.1 Linux and Windows NT 4.0
<b>September 2000</b>	New CAEN Sun Ultra 10/4440 workstations run Solaris 2.6 and feature 256 MB of DRAM, 2-MB L2 Cache, CD-ROM, 1.44 M-byte floppy, and a 9.1 GB 7200 RPM internal disk drive
<b>September 2000</b>	The CPC (Center for Parallel Computing) announces the addition of 64 nodes to its existing production environment of 48-node IBM SP scalable parallel system
<b>2001</b>	CAEN completes installation of Ethernet cabling in all CoE Buildings
<b>January 2001</b>	Five CAEN labs equipped with overhead projectors to display computer output (4327 EECS, B505 Pierpont, B507 Pierpont, 2230 SPRL, B610 IOE)
<b>September 2001</b>	Mark Giuffrida becomes Director of CAEN
September 2001	The CAEN main server and network equipment “data center” in Chrysler Center is rebuilt
<b>January 2002</b>	CPC and LaSC merge to become the Center for Advanced Computing with Bill Martin as Director

- January 2003**            The Media Union goes wireless for all U-M students, faculty, and staff with a valid username and password
- March 19, 2004**        The Board of Regents renames the Media Union in honor of James Duderstadt, the 11th president of U-M, and his wife Anne
- January 2004**            CAEN glows green again -- CAEN News goes to digital-only format!
- June 2004**                CAEN labs in 2230 SRB and 4440 EECS remodeled to transform CAEN labs into up-to-date learning and collaboration environments that support instructional technology applications in addition to traditional drop-in computer use
- September 2005**        CAEN Hotline and Groundworks move to the 1<sup>st</sup> floor of the Duderstadt Center
- January 2006**            New Computer Science and Engineering Building (CSE) opens with two new CAEN labs featuring 55 new Intel-based PCs with 19" LCD monitors
- September 2007**        The Freshmen Engineering labs receive new PC computers (Dell OptiPlex 745 (2 x 2.13 GHz) 20" LCD 250 GB 2 GB) running Windows XP
- January 2008**            Student Apple Laptop bundle sells for \$1199.00 featuring 2.4 GHz Intel Core 2 Duo, 2 GB memory, 160 GM hard drive, SuperDrive, and an accompanying iPod
- September 2008**        CAEN celebrates twenty-five years at the College of Engineering

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**Notes:**

*I am going to make a little "CAEN First" icon to accompany select items ☺ Should this be for things that are first at the University? Or first anywhere?*

*When did P.K. become director?*