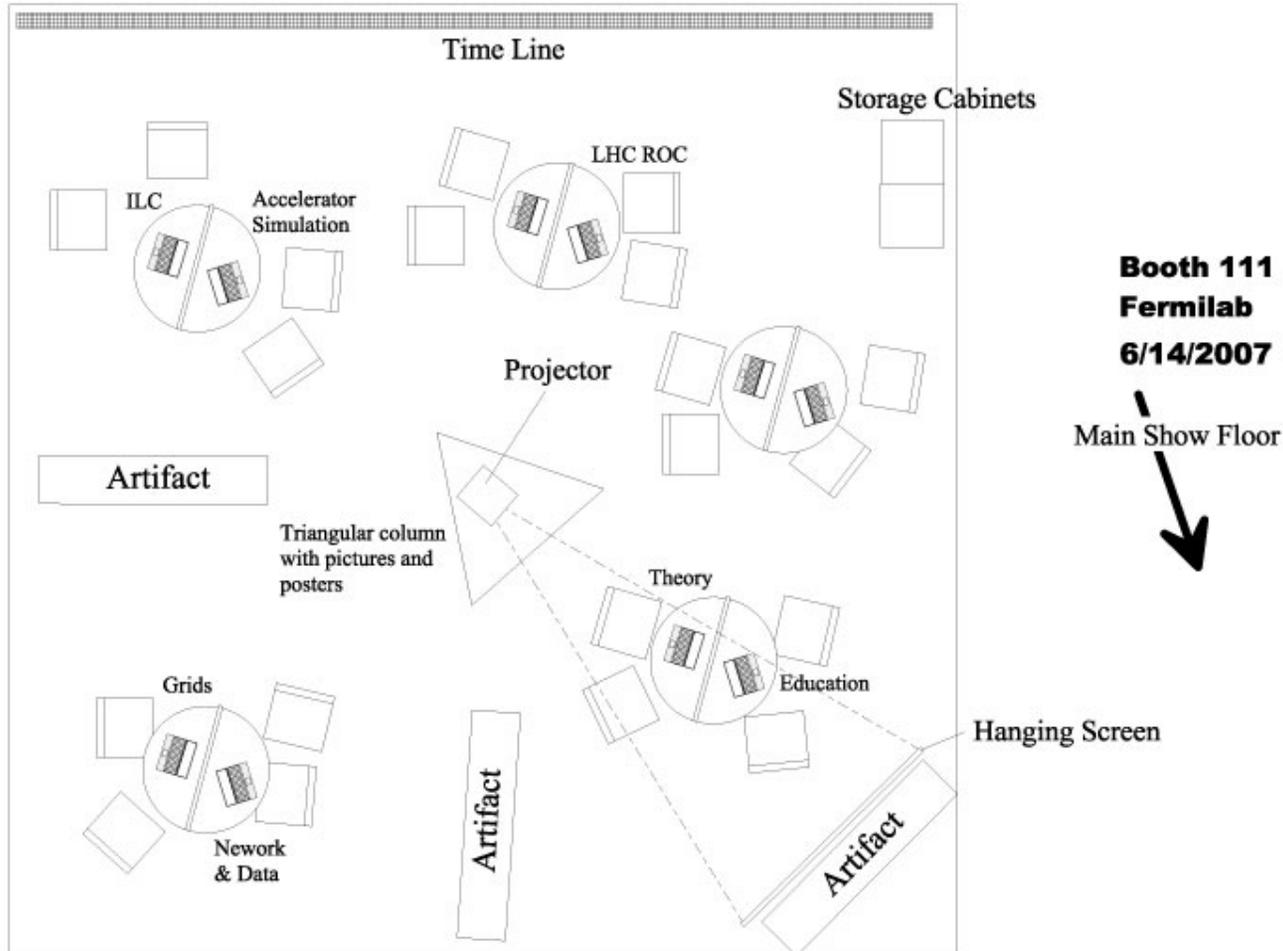


# Early Exhibit Concept CD-doc-2244, version 1



## Proposed Theme

The computing tools and resources at Fermilab have a common element of creating innovative computing solutions and services through the combined efforts of many individuals world wide

# Possible Approach

Present the Laboratory's computing capabilities and accomplishments through the conduit of personal stories of the professionals involved with Fermilab Computing

- Open café-like exhibition space
- 6 to 8 content stations staffed with computing professionals
- Large screen video essays portraying personnel stories of computing professionals
- Large Time Line Poster
- Four mural size Fermilab Images

# Proposed Exhibit Title

FERMILAB COMPUTING

*“Greater than the Sum of Its Parts”*

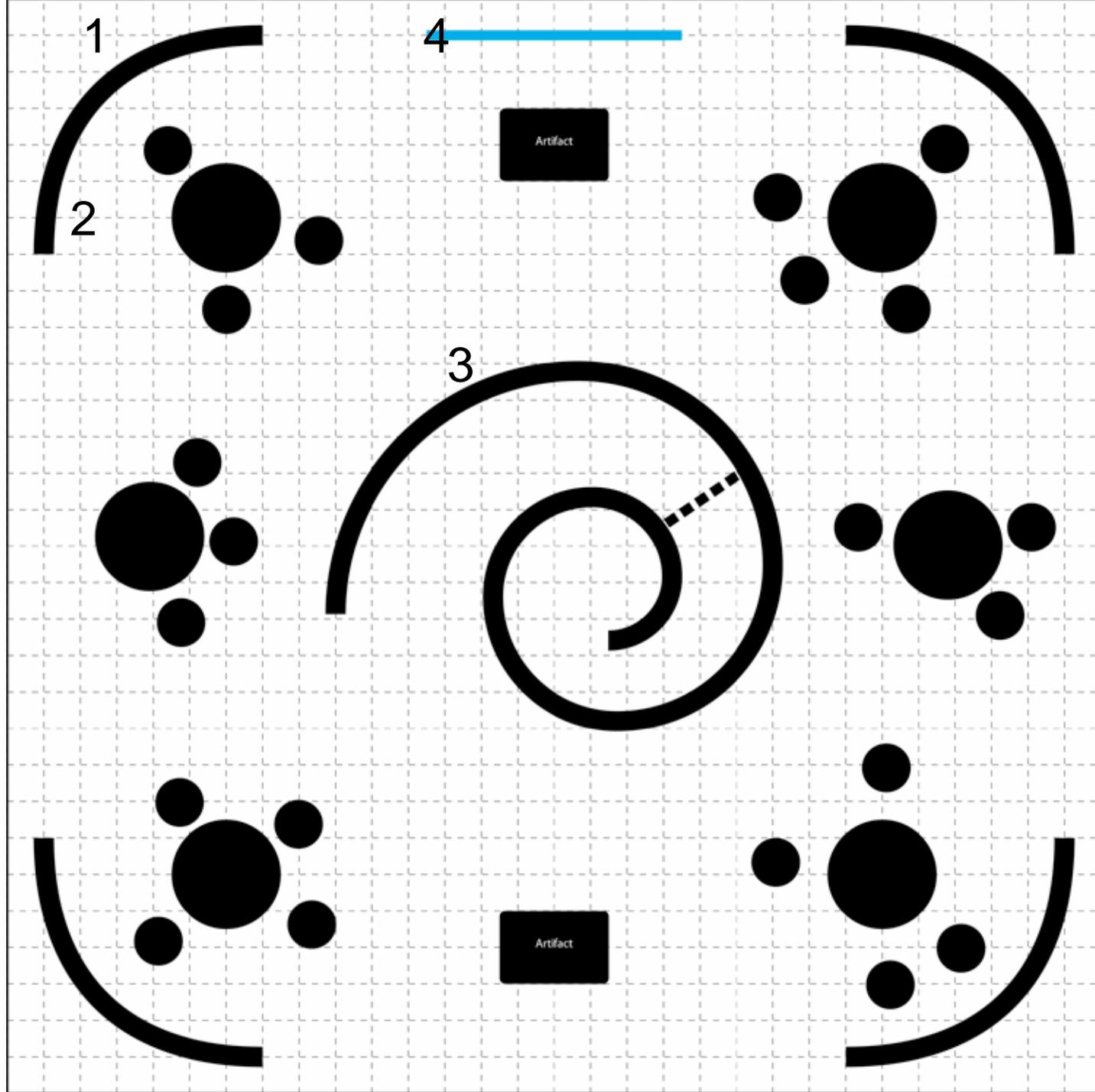
# Design

1 Large Photos

2 Text and Photos

3 TIMELINE Poster

4 Large Video Screen

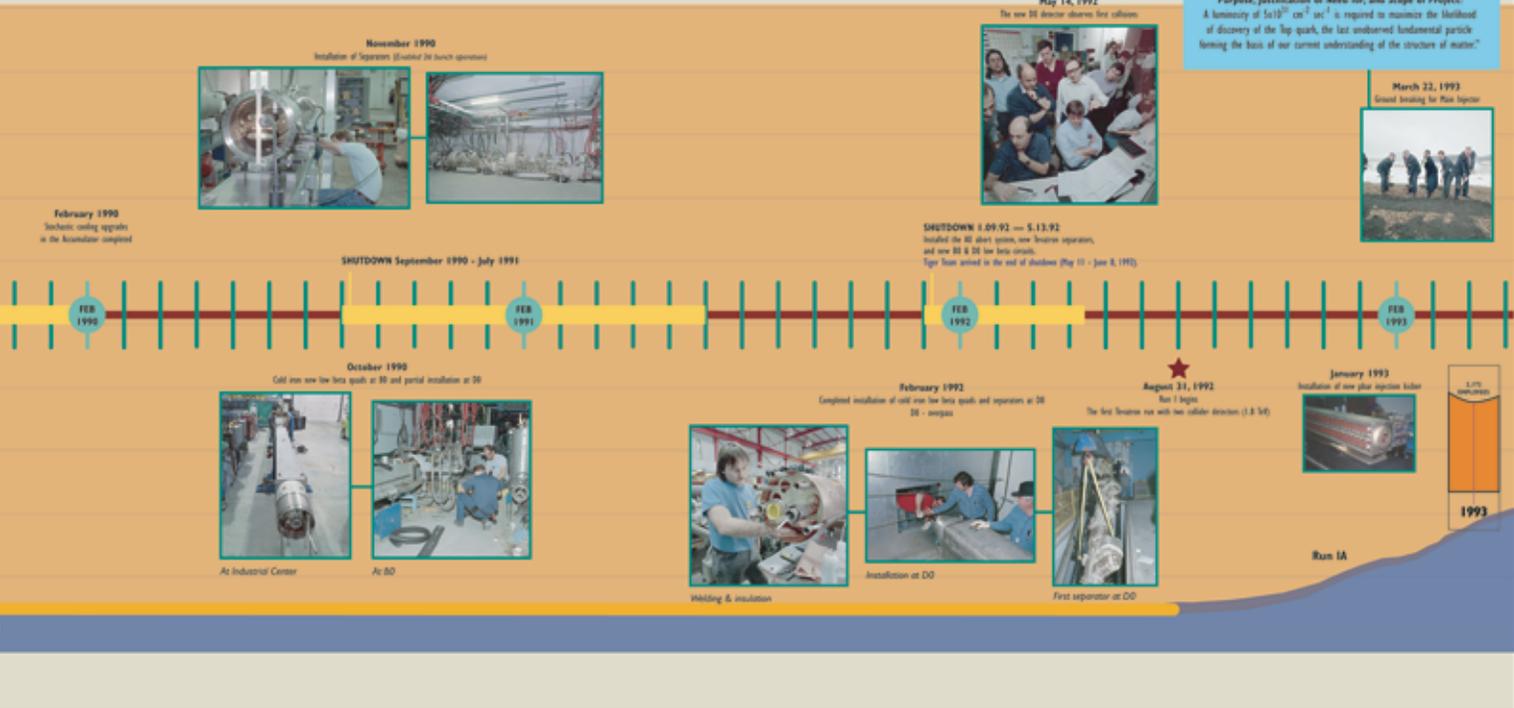


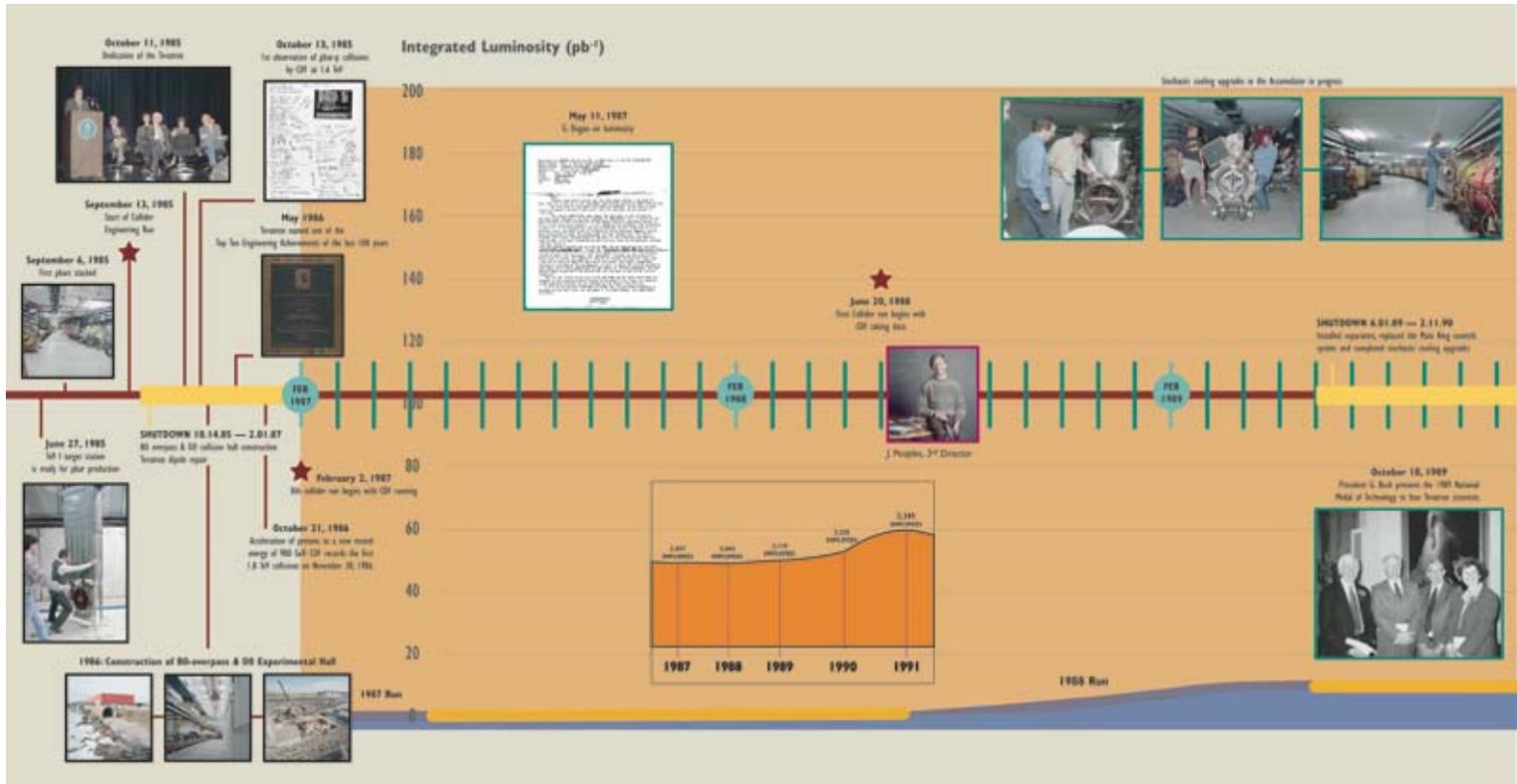
# A Timeline Example

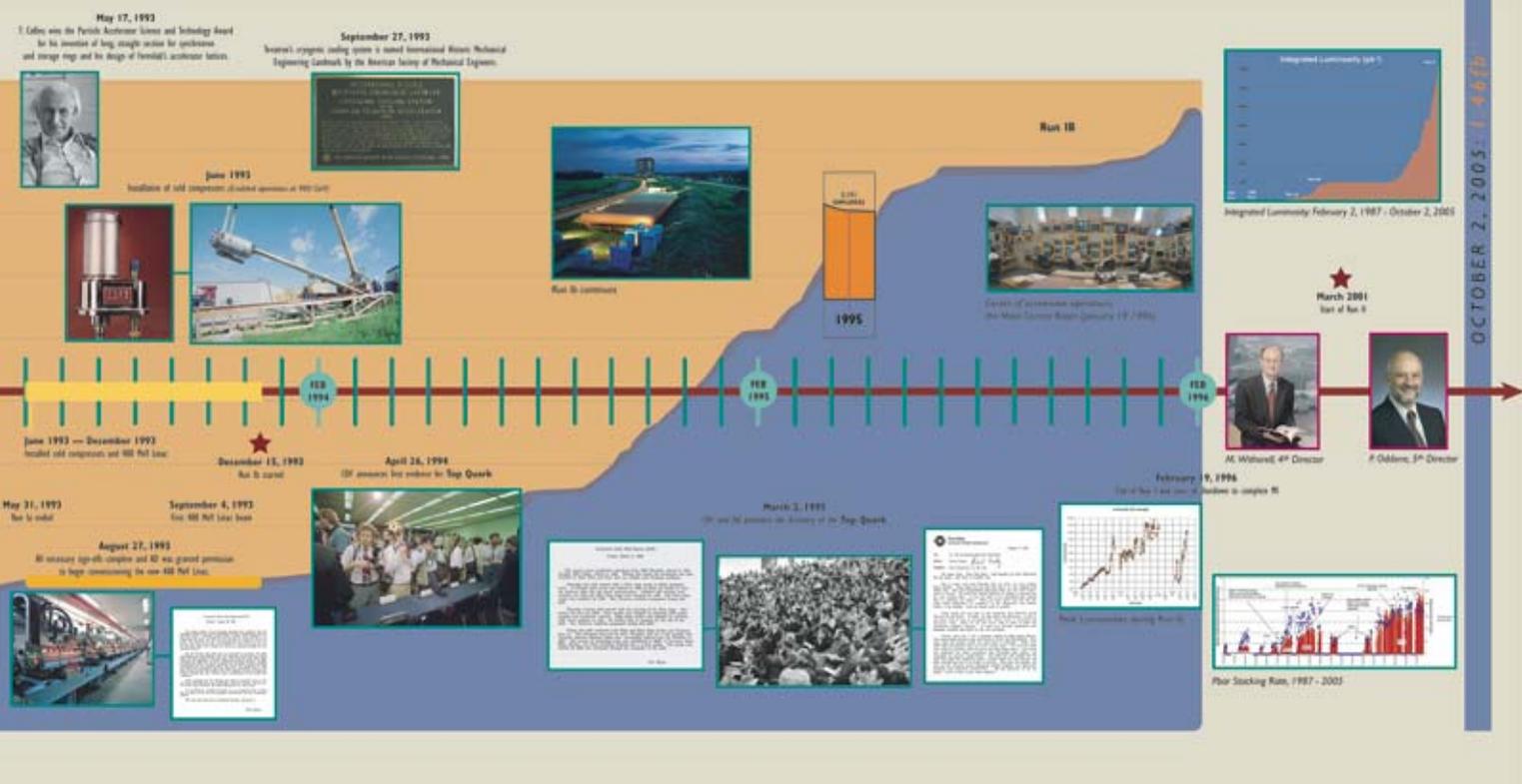
- From the AD Top Turns Ten Exhibit
- Next four slides
- 26 feet long in actuality



# Accelerating to Top







**May 17, 1992**  
 T. Colfer wins the Particle Accelerator Science and Technology Award for his invention of long straight sections for synchrotrons and storage rings and his design of Fermilab's accelerator lattice.



**September 27, 1992**  
 Fermilab's cryogenic cooling system is named International Bureau of Standards Engineering Landmark by the American Society of Mechanical Engineers.



**June 1993**  
 Installation of cold compressors (colded operation at 90% QRF)

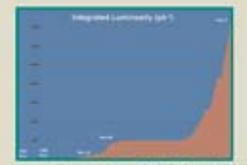


Run II Construction

**1995**



Startup of synchronous operation of the Main Injector Beam (January 17, 1995)



Integrated Luminosity February 2, 1987 - October 2, 2005

**March 2001**  
 Start of Run 8



M. Witkowski, 4<sup>th</sup> Director



F. Odian, 5<sup>th</sup> Director

**June 1993 - December 1993**  
 installed cold compressors and 400 RF cavities

**December 15, 1993**  
 Run II started

**April 26, 1994**  
 CDF announces first evidence for Top Quark



**March 2, 1995**  
 CDF and D0 announce the discovery of the Top Quark



**February 19, 1996**  
 Start of Run 7 and start of studies to complete Run II



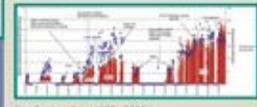
Peak Luminosities during Run II

**May 31, 1993**  
 Run II under

**August 27, 1993**  
 All necessary technical complete and 40 was granted permission to begin commissioning the new 400 RF Cavities



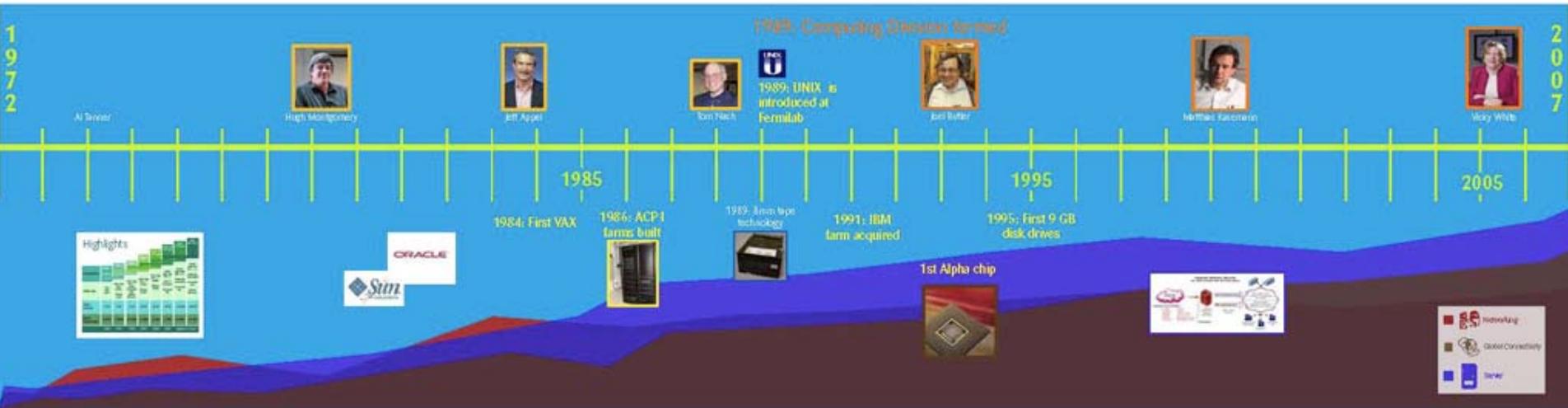
400 RF Cavities



Peak Stacking Run, 1987 - 2005

OCTOBER 2, 2005

# Draft Layout of Computing Timeline



# Potential Domains of Timeline

- Listing of Major Hardware Acquisition and the Time of Service
- Size of Network ie: volume, speed, number of nodes
- Listing of Dept/Division Heads
- Listing of Computing Accomplishments/Specific milestones
- Number of People Served by Computing Over the Years
- Inventory of new words created by and for Computing Effort
  
- Technology , Data Storage, amount of data
- Detectors number of channels , size of detectors, rate of trigger
- Size of collaborations
- Performance of Accelerator
- Power and cooling detail, amount of processing power
- Power density
  
- Others – all indexed along the timeline...