Shaping Collaboration 2006

Shaping the Future of Collaboration in Global Science Projects

The Event

Shaping Collaboration 2006 was a 3-day conference held at the CICG in Geneva, Dec 11-13, 2006.

http://cern.ch/ShapingCollab2006

The Participants

Workshop on Advanced Collaborative Environments
Workshop on Collaborative Tools for the LHC
100 Local and Remote Participants from Around the Globe

The Goal

"...bring together members of the user community of the CERN Large Hadron Collider with researchers and practitioners in the area of advanced collaborative tools [to] focus on ways these communities can work together to advance research in collaboration while meeting the needs of global science projects."





Conference Organizing Committee

Reinhard Eisberg, DESY IT
Philippe Galvez, California Institute of Technology
Steven Goldfarb, University of Michigan
Jeremy Herr, University of Michigan
Erik Hofer, Univ. of Michigan, School of Information
Tatsuo Kawamoto, ICEPP, University of Tokyo
Homer A. Neal, University of Michigan (Chair)
Harvey Newman, California Institute of Technology
Mick Storr, CERN DSU/ED



The LHC Sessions

- •Welcome (J. Engelen CERN Deputy Director General of Science)
- •Keynote (D. van Houweling Director, Internet2)
- •Reflections on the Development of the Web: The Goal of Scientific Collaboration (R. Cailliau CERN)
- •Intergroup Protocols and Human Collaboration (D. Agarwal LBNL)
- •Theory of Remote Scientific Collaboration (E. Hofer Michigan)
- •Collaboration in Context (M. Wessner Fraunhofer Institute)
- •Beyond HEP Experiences from UK eScience (A. Parker Cambridge eScience Centre)
- •CMS Plans for Centres (L. Taylor Northeastern)
- •Plans for the USCMS Remote Operations Center (E. Gottschalk FNAL)
- •An Overview of the ATLAS Experiment and the Role of Collaborative Tools in Scientific Discovery (S. Stapnes ATLAS Deputy Project Leader)
- •Collaborative Tools in a Grid Environment (R. Cavanaugh Florida)
- •RTAG 12: An Assessment of the Collaborative Tool Needs of the LHC (S. Goldfarb Michigan)
- •Collaborative Tool Plans at CERN (T. Smith CERN)
- •The Impact of Distance and Time in Large Scientific Collaborations (H. Sakamoto ICEPP, Tokyo)
- •The Importance of Collaborative Tools in Developing Countries (A. Luo Michigan)
- •Maximizing Returns on National Investments (D. Atkins U.S. NSF Office of CyberInfrastructure)
- •Collaborative Tools, Education and Training (J. Hardin Sakai Project)
- •Enabling Virtual Organizations (EVO) (P. Galvez Caltech)
- •Web Lecture Archiving, Robotic Tracking Systems, and the Lecture Object (J. Herr University of Michigan)
- •MVL, a Tool to Support Maintaining, Optimizing, and Trouble Shooting Accelerator Components from Off-Site (R. Pugliese ELETTRA, Trieste)
- •ConferenceXP: Shaping the Future of Collaboration (T. Needham Microsoft Research)
- •A Vision of Collaboration at the High Energy Frontier in the LHC Era (H. Newman Caltech)
- •Using OpenGL and 3D to Manage Large Numbers of Video Conferencing Streams (P. Farkas Caltech)
- •Collaborative Tools and the Management of Large Experiments (M. Nordberg ATLAS Resources Coordinator)
- •Grid Enabled Collaborative Tools for Scientific Research (C. Severance Michigan)





Key Issues Identified, Outcome and Follow-Up from the Conference

- •Identification, Clarification of the Needs of the LHC Collaborations
- •Sharing of Experiences Among the LHC User Communities
- •Expert Insight of Latest Developments and Future Possibilities:
 - •Collaboration Theory
 - Network Infrastructure
 - •Grid Technology and Applications
 - •Video Conferencing, Lecture Archiving, etc.
- •Special Needs of Large-Distance Remote Participation
- •The Challenge of Remote Monitoring and Operations
- •Panel Discussion on CERN, LHC, and National Funding Policy
- •Communication of Conclusions to Management at All Levels:
 •Institutes, Funding Agencies, Project Leaders, CERN
- •Increased Commitment from CERN, Experiments
 - Funding, Manpower