



## CANS 2004 Page



### HEP Panel Introduction - Biographies

**Dr. Marvin Goldberg** (PhD Physics, Syracuse 1965) is the Program Officer of Experimental Particle Physics in the Division of Physics, Directorate for Mathematical & Physical Sciences at the US National Science Foundation. At Brookhaven National Laboratory, Dr. Goldberg participated in experiments defining the first SU(3) multiplets. At CERN, he worked on experiments at the ISR providing results on QCD through high momentum transfer phenomena.

At Wilson Laboratory, as a charter member of the CLEO collaboration, he worked on many experiments testing the Standard Model. Marv has served as Department Chair at Syracuse University for 10 years and led the New York State effort to site the Superconducting Super Collider (SSC). He has served as executive secretary on the US National Science Board and in 2002 Dr. Goldberg was recognized for his exemplary accomplishments and has been awarded the National Science Foundation Director's Meritorious Award. The award is "for outstanding service in developing a world-leading portfolio of research in particle physics, for extraordinary creativity toward educational and diversity goals, and for leadership in the NSF/DOE collaboration on the Large Hadron Collider Project." Marv was the program officer at NSF for the LHC project, and several allied multi-directorate activities such as iVDGL, and has recently been appointed program manager of the new RSVP project.

**Dr. Harvey Newman** (Sc. D, MIT 1974) is a Professor of Physics at the California Institute of Technology, and a Caltech faculty member since 1982. He co-led the MARK J Collaboration that discovered the gluon, the carrier of the strong force, at the DESY laboratory in Hamburg in 1979. He has had a leading role in the strategic planning, development, operation and management of international networks and collaborative systems serving the High Energy and Nuclear Physics communities since 1982, and served on the Technical Advisory Group for the NSFNet in 1986. He originated the Data Grid Hierarchy concept adopted by the four LHC high energy physics collaborations. He is the PI of the LHCNet project, linking the US and CERN in support of the LHC physics program, a PI of the DOE-funded Particle Physics Data Grid Project (PPDG) and of the NSF-funded UltraLight project, and he chairs the ICFA Standing Committee on Inter-regional Connectivity. He and his team have established 7 Internet2 Land Speed Records since 2002, and he led the teams that won the SC2003 and SC2004 Bandwidth Challenge Awards, with a recent record of 101 Gigabits/sec. He is also a Co-PI for the NSF funded Center for High Energy Physics Research and Educational Outreach (CHEPREO) program at FIU.

**Dr. Paul Avery** is a Professor of Physics at the University of Florida. His research is in experimental High Energy Physics and he participates in the CLEO experiment at Cornell University and the CMS experiment at CERN, Geneva. Paul's interests include the decays of heavy quarks, software, including OO methods and fitting algorithms, and computing, especially distributed computing and Computational Grids. Dr. Avery is the Director of two NSF funded Grid projects, GriPhyN and the International Virtual Data Grid Laboratory (iVDGL). Both projects are collaborations of computer scientists, physicists and astronomers conducting Grid research applied to several national and international experiments with massive computational and data needs. He is also a Co-PI for the NSF funded CHEPREO program at FIU.

**Dr. Xun Su** received his PhD in Electrical Engineering from the University of Texas at Austin in 2002. Since January, 2004 he has worked on CHEPREO network engineering through the High Energy Physics Department at Caltech. Xun earned a Master of Engineering at Southeast University and a Bachelor of Engineering at the University of Electronic Science and Technology in China. His research interests include high performance grid networking and monitoring system engineering, design and analysis of computer networking protocols, wireless cellular and ad hoc networking as well as resource provisioning and failure protection in WDM networks. Dr. Su is also a Co-PI on the CISCO University Research Program grant to develop an integrated network monitoring system using Cisco NetFlow, MonALISA and NLANR PMA/AMP.



Panel/Audience Questions I will ask:

1. What are the correct steps to take to build a high energy physics collaboration between the US and China? Is there specific documentation, such as a handbook that explains the correct protocol?
2. Which accelerate experiments are of mutual interest and how will increased collaboration benefit the HEP community?

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