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**Titel:** Linking the Legos: Building a Global Network Infrastructure in Support of Research and Education

**Abstract:** Universities compete for faculty, for students, and for research funding while educational and research collaborations across institutions grow stronger and more numerous. Unique scientific instruments are positioned in various locations around the globe; distributed storage of petabytes of data is becoming common place as are hybrid packet and optical networking infrastructure and compute grids.

The talk will survey the landscape of the R&E network infrastructure being put in place to facilitate these collaborations, the use of those facilities, access to distributed storage, and give some examples of experiments past, present, and future that depend on this infrastructure. We will also look at a number of the interesting opportunities and challenges ahead. We will consider a SWOT (Strengths, Weaknesses, Opportunities, Threats) exercise and invite the attendees to add to the SWOT.

**Biography:** Associate Vice President for Information Technology Partnerships at the University of Washington and Executive Director for International Partnerships for the Pacific Northwest Gigapop/Pacific Wave, Jacqueline Brown is responsible for building regional, national, and international partnerships based on advanced networks.

Regionally, Jacqueline has led the development of the Pacific Northwest Gigapop's partnership efforts with education and research communities in the Pacific Northwest and with international partners in the Asia-Pacific Region and more recently in Europe. Nationally, Jacqueline has chaired The Quilt, and led the strategic direction of this coalition of advanced regional network organizations that promotes delivery of networking services at lower cost, higher performance and greater reliability and security. Similarly, she has played key roles in most of the US higher education and technology organizations, including EDUCAUSE, the Coalition for Networked Information, and Internet2. Internationally, Jacqueline has been the University of Washington's representative and/or an active participant in the Association of Pacific Rim Universities (APRU), the Pacific Telecommunications Consortium (PTC), the Chinese American Networking Symposium (CANS), the Pacific Rim Applications Grid and Middleware Assembly (PRAGMA), and the Asia Pacific Advanced Networks (APAN).

In addition, her degrees in physics and astrophysics have kept her deeply interested in recent advances in the physical sciences such as the Large Hadron Collider and in e-VLBI as well as optical astronomy in particular as these will use the international advanced networks.