

**2010 INTERNET2 ADVISORY COUNCILS ELECTION  
CANDIDATE NAMES AND BIOS**

**CIO/INSITUTION AND RESEARCHER CANDIDATES**

**ARCHITECTURE AND OPERATIONS ADVISORY COUNCIL (AOAC)**

**Leo Donnelly**

Leo Donnelly has been with University Information Systems at Harvard University as a Senior Network Architect since November of 2000. Leo has been working on longer term strategic networking and infrastructure projects for the University such as dark fiber initiatives, commercial Internet and Internet2 projects, optical networking, and emerging technologies such as VoIP, IP Video, cellular voice, building systems technologies on the IP network and wireless technologies. Leo meets regularly with commercial carriers, networking vendors, and building automation vendors at a senior level to discuss emerging services, future services, and technology. Leo is also the Internet2 Technical Point of Contact for the University and is actively engaged in working closely with faculty on research initiatives. Recent trials/projects include 10GB interconnects to Internet2's Terapath Service, and streaming uncompressed HDTV at 1.9 GB's between Fenway Park in Boston and Osaka, Japan for live broadcast on Japanese TV. We've worked closely with the GENI project office in providing connectivity support to the national research networks. Leo is also the Chief Architect for the Northern Crossroads, the Internet2 Aggregation Point in New England. His responsibilities include setting routing policy, planning and coordination with Northern Crossroads Members, peering partners, the Internet2 community, and local, state, and federal government agencies. External activities include working with NEREN, the Northeast Research and Education Network, both as a Board Member and technical consultant. Various consulting roles on emerging technologies, public safety networks designed on the higher education model, network architecture, and dark fiber infrastructure with local, state, and federal government agencies. He remains active in Internet2, the Quilt, and Government advisory roles. Prior to working for University Information Systems as a Senior Network Architect, Leo was serving as the Network Engineering and Planning Manager for the Harvard University Core Network. Leo has also served on the LMANet (Longwood Medical Area Research Network) Technical Committee and Co-Chaired the LMANet Technical Design Committee. He continues to serve in an advisory role to the Longwood Medical Area Network Executive Committee.

**Steve Hess**

Stephen Hess is the Chief Information Officer (CIO) of the University of Utah responsible for operations, governance and strategic direction of campus academic, administrative and research Information Technology (IT). He is also the CIO of Utah System of Higher Education where he leads the other colleges in statewide IT initiatives. Stephen previously served as the Associate Academic Vice President for Information Technology and as

Executive Director of Media Services and the Utah Education Network. As the Executive Director of Media Services and the Utah Education Network he lead a talented group of individuals in the development of the State of Utah's extensive computer, satellite and interactive television networks connecting all public K-12 schools, colleges and universities, libraries, applied technology centers and state government. He was also responsible for the media and broadcast properties of the University of Utah, Instructional Media Services and the University of Utah Press. Steve also served as the Assistant Vice President of University and Student Relations. Stephen holds adjunct faculty appointments in the Graduate School of Education and the Department of Communications, where he teaches and advises doctoral students. Steve's teaching and administrative career spans a period of more than 35 years at the University of Utah. Stephen has also published many articles and chapters in book on the impact of media and information technology on higher education. Stephen's interest in media and technology began when he was student teaching. He was surprised at the small number of educational materials and technology available for teachers. At that point he decided to pursue a career in the use of media and technology to improve teaching, administration and research, and the overall educational experience for faculty, students and staff in public and higher education. He holds a Ph.D., Educational Administration, a M.Ed., Instructional Systems and Learning Resources, University of Utah, and a B.S. History (Cum Laude), all from the University of Utah.

### **Doug Hurley**

Dr. Douglas E. Hurley joined the University of Memphis (<http://www.memphis.edu/>) in 2003 as the VP for Information technology and CIO, and assumed additional responsibilities as Chairman of the FedEx Institute of Technology (<http://www.memphis.edu/fedex/index.php>) in 2006. As CIO, Dr. Hurley is responsible for all computing and communications services across the university. As Chairman of the FedEx Institute of Technology, he focuses on developing innovative research collaborations as well as technology transfer and commercialization activities. In 2009, with Dr. Hurley's leadership, the UoM led the establishment of the Memphis Coalition for Advanced Networking (MCAN) as a West Tennessee regional R&E network and I2 Connector. MCAN has established long term fiber leases to connect its members, which include the University of Tennessee Health Sciences Center, St. Jude Children's Research Hospital, the Memphis Medical Center/Memphis BioWorks Foundation, and the UoM. The UoM provides network management and technical services under contract to MCAN. As a regional I2 Connector, UoM provides I2 access for MCAN members, as well as connections into the ORNL/Department of Energy FutureNet. MCAN will soon establish regional peering with AER-ON and LONI. UoM provides I2 access through SEGP to K-12 and others across Tennessee. Since 2006, Dr. Hurley has led the Economic Development special interest group within I2. This spring, he will chair a taskforce to study and offer recommendations toward defining a formal focus on Business/Economic Development within Internet2. Previous to the University of Memphis, Hurley was director of University Relations and a research analyst in the Higher Education Technology Strategies group at Gartner, Inc. In that capacity, he worked with institutions around the world to develop collaborative research initiatives, linking Gartner research

analysts and university professors. He worked with higher education leaders and boards as well as IT professional staff and faculty to help them understand technology trends and directions, and how technology can be used for strategic advantage in higher education. Dr. Hurley has considerable technology leadership experience in several major research universities and in an academic health science center, and led the establishment of a statewide research supercomputer center for the Commonwealth of Kentucky. He holds a doctorate in higher education administration and planning from Kansas State University, a master's degree from the University of Vermont, and a bachelor's degree from Miami University (Ohio). He has also studied at the Wharton School's Aresty Institute of Executive Education.

### **Charlie McMahon**

Charlie has just marked his one year anniversary as the Vice President of Information Technology and Chief Technology Officer for Tulane University and currently serves as Tulane's Trustee for SURA. Prior to coming to Tulane he was at LSU where he served as Deputy CIO, Executive Director of the Louisiana Optical Network Initiative (LONI) and Chief Technology Officer for the Center for Computation and Technology. Charlie has served as a member of the Board of Directors for the National Lambda Rail and The Quilt.

## **APPLICATIONS, MIDDLEWARE AND SERVICES ADVISORY COUNCIL (AMSAC)**

### **Joel Smith**

Dr. Joel M. Smith is the vice provost and chief information officer for Carnegie Mellon, Computing Services and also directs the Office of Technology for Education. Prior to his tenure at Carnegie Mellon, Smith had directed academic and administrative computing at a number of institutions of higher education including Allegheny College, The Claremont Graduate University, MiraCosta College, and Carnegie Mellon. He holds a Ph.D. from the History and Philosophy of Science department at the University of Pittsburgh and M.S. and B.S. degrees in physics from Baylor University. He has held various academic appointments at Carnegie Mellon, the University of California at San Diego, Indiana University, The Claremont Graduate University, and Allegheny College. Joel has been involved in technology enhanced learning projects since 1990. He is currently the principle investigator in charge of the Open Learning Initiative, a project at Carnegie Mellon, funded by the William and Flora Hewlett Foundation, to develop demonstrably effective online courses through the application of design principles and practices from cognitive science. Smith serves on advisory boards for Intel Corporation, Apple Computer, Campus Technologies magazine, and Harvard University.

## **Shel Waggener**

Shelton Waggener is the Associate Vice Chancellor and Chief Information Officer at the University of California, Berkeley. Prior to joining Cal in 2003, Waggener spent more than fifteen years in senior positions in the private sector at leading technology firms. Previously held positions include CIO of InterNetworking Systems, an \$8B division of Lucent Technologies; Director of IT for Octel Communications; and Senior Director of IT Infrastructure for Sybase. Since his appointment as CIO at UC Berkeley in the fall of 2005, Waggener has lead the implementation of a comprehensive technology governance and strategic planning effort focusing increased resources on meeting the technology needs of the academic research community. He is a founding member of the Kuali Student System initiative and currently serves on the board of directors of the Kuali Foundation, a non-profit organization representing 18 Carnegie Class higher education institutions from around the world investing more than \$70m in community source developed software for higher education. As a member of the University of California CIO Leadership Council, Waggener has been a key supporter of federated identity management including participation in InCommon and Identity Management efforts. Current initiatives under development include the creation of a middleware reference architecture and common web services registry to support ease of reuse and joint development activities across campuses. Waggener serves on numerous boards, including several not-for-profit organizations supporting the collaboration and advancement of technology in public and private sectors as well as student scholarships. Waggener also sits on the technical advisory panels of several established Silicon Valley firms as well as serving as a resource to numerous information technology start up companies. For more about Waggener, see <http://technology.berkeley.edu/cio/biography.html>.

## **RESEARCH ADVISORY COUNCIL (RAC)**

### **Ilee Rhimes**

Ilee Rhimes serves as the chief information officer and vice provost for information technology services at the University of Southern California. He was appointed to this dual role in February 2007. As chief information officer for the university, Rhimes provides the vision and leadership in information technology necessary to advance the university's mission and strategic plan on both the University Park and Health Sciences campuses. As vice provost for information technology services, Rhimes oversees the university's central information technology services division (ITS), which provides essential university-wide services, such as wired and wireless networks, systems security, student information systems, and technology-enhanced learning. ITS maintains the university's Center for High-Performance Computing and Communications (HPCC) and houses the technological unit of the USC Shoah Foundation Institute. HPCC is ranked 6th among U.S. academic supercomputers and 71st in the world among all supercomputers, according to the rankings that were announced in November 2009 by the online publication TOP500 Supercomputer Sites. In fall 2009, HPCC's 1,280-node cluster reached a benchmark of 72.05 teraflops, or 72.05 trillion floating-point calculations per second. HPCC supports research groups in

disciplines such as bioelectrics, cosmology, engineering, geophysics, linguistics, psychology, and the health sciences. Rhimes provides administrative oversight for Los Nettos—the regional network that offers high-capacity access to many national and international research and education networks through its affiliations with Internet2, the Corporation for Education Network Initiatives in California (CENIC), Pacific Wave, and Any2, among others. Rhimes is active in IT professional organizations in higher education and serves on various IT advisory committees, including the boards of CENIC, Los Nettos, and the CIO committee of the Association of Pacific Rim Universities (APRU). Rhimes holds a B.A. from Governors State University in University Park, Illinois, and an M.B.A. from Miami University in Oxford, Ohio. Prior to joining USC, Rhimes served as the chief information officer for the Ohio State University (OSU), where he was the senior administrator for the offices of information technology, technology-enhanced learning and research, project management services, emerging technologies, and cyber security. Rhimes holds a B.A. from Governors State University in University Park, Illinois, and an M.B.A. from Miami University in Oxford, Ohio.

### **Pete Siegel**

Peter M. Siegel is the vice provost and chief information officer (CIO) for information and educational technology at the University of California, Davis, with primary responsibilities for research computing, academic, and administrative computing. As vice provost and CIO, Siegel is responsible for providing the leadership necessary to assure the effective coordination and strategic deployment of information and educational technology to the campus's academic and administrative operations. He also is responsible for coordinating technology between the Davis campus and the UC Davis Health System. To meet these goals, Vice Provost Siegel works very closely with several advisory groups and the community at large – all key components of the campus IT governance structure. Siegel oversees the myriad forms of information technology used throughout the campus, including classroom and educational technologies, cyber-safety, computing systems and data, cyber-infrastructure, voice and video communication services. The position is part of the chancellor's cabinet, and reports to both the chancellor and provost. Throughout his career, Siegel has been involved in both national and state professional organizations, as well as in nationally recognized technology partnerships with other major research universities. He is a member of the Educause-Internet2 Security Task Force Executive Committee, and is working with the American Council on Education and Educause on security policy issues. He serves on the Research Computing committee of CENIC (California) and has been active with state networks in Illinois, Iowa, as well as New York, where he was for many years on the Board of Directors of NYSERNet. He speaks regularly on computer privacy and security issues, collaboration technologies, the role of technology planning in the academy, and cyberinfrastructure in support of research. Prior to joining UC Davis in 2006, Siegel was the CIO at the University of Illinois Urbana-Champaign for six years. While there, he reorganized that campus's central computing, educational technologies, classroom technologies, computer labs, data and voice communications units into an integrated information technologies and educational services unit. During this time, Siegel was an active participant with the other CIC (“Big 10 plus”) CIOs in building a shared

network infrastructure in the Midwest. Siegel also served as director of Academic Information Technology at the Iowa State University of Science and Technology; and spent more than 25 years at Cornell University in positions of increasing responsibility, including serving as director of the Cornell National Supercomputer Facility and executive director of the Cornell Center for Theory and Simulation in Science and Engineering, a national high-performance computing resource. Siegel earned a master's degree in linguistics from Cornell University, where he also pursued doctoral studies. He also holds both master's and bachelor's degrees from the University of Hawaii.

## **EXTERNAL RELATIONS ADVISORY COUNCIL**

### **Joel Hartman**

Joel L. Hartman is Vice Provost for Information Technologies and Resources at the University of Central Florida in Orlando. As the university's CIO, he has overall responsibility for library, computing, networking, telecommunications, media services, and distributed learning activities. Hartman was employed by Bradley University from 1967 to 1995, holding several information technology management positions, including CIO. Hartman has been an active author, and presenter at industry conferences. He previously served as treasurer and 2003 Chair of the EDUCAUSE Board of Directors, chair of the EDUCAUSE Learning Initiative (ELI) Advisory Committee, secretary of the Seminars on Academic Computing Coordinating Board, and the Florida Digital Divide Council. He now serves on the Microsoft Higher Education Advisory Group (co-chair), the Oracle Education & Research Industry Strategy Council, the Sloan Consortium Board of Directors, the Blackboard Client Strategy Council, the EDUCAUSE Recognition Committee (chair), the Change magazine board of editors, and is Chairman of the Board of Directors of Florida LambdaRail, Florida's research and education network. Hartman was recipient of the 2008 EDUCAUSE Leadership Award. Hartman has been an information technology consultant to both public and private sector organizations, and has been active in the development of statewide education and research networks in Illinois and Florida. He has served and held offices on numerous state, regional, and national IT committees in areas including public broadcasting, distributed learning, and networking. Hartman graduated from the University of Illinois, Urbana-Champaign, with bachelor's and master's degrees in Journalism and Communications, and received his doctorate from the University of Central Florida.

### **Dave Lambert**

H. David Lambert is the first Vice President for Information Services and Chief Information Officer (VP/CIO) at Georgetown University. Holding the VP/CIO position since early 1998, David has successfully moved the University forward in the strategic application of information technology across a wide range of university programs and services. His leadership efforts have focused on deployment of an advanced technology infrastructure, modern information systems, and responsive technology support services. Under David's direction, Georgetown has taken an active role in regional technology activities such as the

Mid-Atlantic Crossroads (MAX), a regional advanced Internet consortium, and national higher education technology initiatives such as Internet2 and the Common Solutions Group. The VP/CIO was recruited to Georgetown University from Cornell University, where he served as Vice President for Information Technology. Prior to joining Cornell in 1989, David held several technical and leadership positions at Indiana University, Bloomington. David's background includes a B.A. in Political Science from West Virginia University (1971) and doctoral studies in Political Science at Indiana University, Bloomington (1972-1976). He also holds the Professional Manager Certificate from Indiana University's Graduate School of Business. He currently serve as the co-chair of the committee and also chair the I2 International Strategies Standing Committee. He has used his role in the ERAC to help focus Internet 2's role in federal networking policy and to enhance communications between Internet2 and the regional networks. As one of the CIO representatives to the ERAC he has also tried to assure that CIO perspectives are well represented in Internet2 governance strategic planning and government processes. His real passions, however, have centered around his ancillary role as chair of the standing committee on international strategies; a subcommittee of ERAC. Serving in that role, he has become focused on the tremendous need to enhance the role of US engagement in the development of the global R&E networking infrastructure. He hopes to be able to continue to support the community and the I2 organization as member of the ERAC in the future.

## RESEARCHER CANDIDATES

### ARCHITECTURE AND OPERATIONS ADVISORY COUNCIL

#### Harvey Newman

Harvey Newman received his Sc. D degree from MIT in 1974, and has been a member of the Caltech faculty since 1982. His career has focused on searches for new particles and new forces of nature at particle colliders at the highest available energies over the last 40 years at Harvard, DESY in Hamburg and CERN in Geneva. In 1978-1982 he co-led the MARK J collaboration at DESY that discovered the gluon, the carrier of the strong force. A theme of his experiments has been precision measurements of electrons, photons and muons which have often been the keys to particle physics discoveries. Since 1994 he and his high energy physics group at Caltech have had central roles in the Compact Muon Solenoid experiment at CERN's Large Hadron Collider, that is now beginning to search for the Higgs particles thought to be responsible for mass in the universe, for graviton decays signaling the existence of extra dimensions of space, and searches for supersymmetry as well as many other exotic forms of new physics. He also leads the MINOS and NOvA teams at Caltech studying neutrino oscillations. Newman currently serves as the Chair of the US LHC Users organization of 850 physicists, engineers and students from more than 80 US universities and laboratories, and is the Chair-elect of the American Physical Society Forum on International Physics. In addition to his roles in physics discoveries, Newman has had leading roles in the strategic planning, development, and operation of international networks and collaborative systems serving the High Energy Physics and other scientific communities since 1982, and the creation of the worldwide computing grid used by the LHC experiments since 1999. He has been principal investigator of the engineering team that has provided transatlantic networking for high energy physics since 1985, with a focus on the LHC program at CERN since 2000. He has also led the science and engineering teams that have established more than a dozen Internet2 Land Speed Records in addition to several SuperComputing Bandwidth Challenge Awards since 2002, including 2009 records for long range data transfers of more than 100 Gigabits/sec. He has represented the LHC and the science research community on Internet2's Strategic Planning Steering Committee and its Architecture and Operations Advisory Council. As Chair of the Standing Committee on Inter-regional Connectivity of the International Committee on Future Accelerators, Newman has worked to foster greater equality of access to data and knowledge in developing countries, through the development of state of the art network and grid infrastructures as well as the tools his group has developed to exploit them most effectively. As a result of this work he was awarded Doctor Honoris Causa degrees by the Politechnica University in Bucharest, Romania, and Pavel Jozef Safarik University in Kosice, Slovakia in 2007, and the José Bonifacio medal of the State University of Rio de Janeiro in 2009.

## **APPLICATIONS, MIDDLEWARE AND SERVICES ADVISORY COUNCIL**

### **Henning Schulzrinne**

Prof. Henning Schulzrinne is Julian Clarence Levi Professor of Computer Science at Columbia University. He received his undergraduate degree in economics and electrical engineering from the Darmstadt University of Technology, Germany, his MSEE degree as a Fulbright scholar from the University of Cincinnati, Ohio and his Ph.D. degree from the University of Massachusetts in Amherst, Massachusetts. He was a member of technical staff at AT&T Bell Laboratories, Murray Hill and an associate department head at GMD-Fokus (Berlin), before joining the Computer Science and Electrical Engineering departments at Columbia University, New York. From 2004 to 2009, he served as chair of the Department of Computer Science. He is editor of the "Computer Communications Journal", the "ACM Transactions on Multimedia Computing", the "ComSoc Surveys & Tutorials" and a former editor of the "IEEE Transactions on Image Processing", "Journal of Communications and Networks", "IEEE/ACM Transactions on Networking" and the "IEEE Internet Computing Magazine". He has been a member of the Board of Governors of the IEEE Communications Society and is vice chair of ACM SIGCOMM, former chair of the IEEE Communications Society Technical Committees on Computer Communications and the Internet and has been technical program chair of Global Internet, IEEE Infocom 2000, ACM NOSSDAV, IEEE IM, IPTComm 2008, IFIP Networking 2009 and IPTel and general co-Chair of ACM Multimedia 2004 and ICNP 2009. He serves on the Internet2 Applications, Middleware and Services Advisory Council and have led a working in the NSF GENI project. He also has been a member of the IAB (Internet Architecture Board). He serves on a number of conference and journal steering committees, including for the IEEE/ACM Transactions on Networking. He has published more than 200 journal and conference papers, and more than 50 Internet RFCs. Protocols co-developed by him are now Internet standards, used by almost all Internet telephony and multimedia applications. His research interests include Internet multimedia systems, quality of service, and performance evaluation. He served as Chief Scientist for FirstHand Technologies and Chief Scientific Advisor for Ubiquity Software Corporation. He is a Fellow of the IEEE, has received the New York City Mayor's Award for Excellence in Science and Technology, the VON Pioneer Award and the TCCC service award.

## **RESEACH ADVISORY COUNCIL (RAC)**

### **Ty Znati**

Dr. Taieb Znati obtained the MS (Computer Science) from Purdue University, and the PhD (Computer Science, 1988) from Michigan State University. He joined the faculty of the Department of Computer Science with a joint appointment in the Graduate Program in Telecommunications at the University of Pittsburgh in 1988. Prior to that he was a member of the Sirius research group headed by Dr. G. Lelan at INRIA (France), which investigated issues related to the design and analysis of distributed data base systems. Dr. Znati's current research interests focus on the design of network level channel abstractions for real-time communication networks to support multimedia environments, the design and analysis of

medium access control protocols to support distributed real-time systems, and the investigation of fundamental design issues related to distributed systems in the areas of machine learning, cognitive modeling, problem solving, and analogical reasoning.

## **EXTERNAL RELATIONS ADVISORY COUNCIL (ERAC)**

### **Jeff Schiller**

Jeff Schiller is the Network Manager and Security Architect in the Department of Information Services & Technology at MIT. He manages MIT's network and provides technical consultation and support for all things Network and Computer with an emphasis on Network Security. He is one of the original authors of the Kerberos Authentication System. He also built and deployed MIT's X.509 Certificate Infrastructure. He is a member of the Internet Engineering Task Force (IETF) and served as an Area Director for Security from 1994 through 2003.

## REGIONAL CANDIDATES

### ARCHITECTURE AND OPERATIONS ADVISORY COUNCIL (AOAC)

#### **Ron Hutchins**

Ron Hutchins came to Georgia Tech in 1981 to serve in a research support role in the School of Information and Computer Science participating in research in computing and networking and supporting computing and communications needs of the school's faculty, staff and students. In the mid 1980's, Ron worked with Dr. Phil Enslow to create a premier networking laboratory in the College of Computing and taught Senior and Graduate level data communications courses there. After working with the central computing organization to create a campus backbone network, Ron moved to the campus role of Director of Networks in 1991. Leveraging the 1996 Olympics to augment the campus technology infrastructure, Ron worked to bring regional and national networking exposure to the campus in 2001, after receiving his PhD in computer networks, and took on the role of Chief Technology Officer for the campus. Ron continues to work to support research and academic programs across the campus as well as to grow Georgia Tech into one of the top ten university technology environments across the US. He is the Georgia Tech Technical Lead, SURANET, a regional network in the southeast created as a partnership between Georgia Tech and the University of Maryland. He is Founder and Vice Chair of the Board of Directors for Southern Light Rail/Southern Crossroads. He is the Charter Participant and Board Member, member of the executive committee for National Lambda Rail. He is Co-Founder and Board Member for the Quilt Inc., a consortium of regional network providers, and he is a member of Internet2, Architecture and Operations Advisory Committee Member.

#### **Dave Pokorney**

Dave Pokorney is the Chief Technology Officer and Director of Engineering for the Florida LambdaRail, LLC, Florida's Research and Education Network. As CTO, Dave is responsible for the NOC, Engineering and Operations team that sustains FLR's 1540 mile regional optical network. He has been involved in design and support of networking at the University of Florida since 1975.

### APPLICATIONS, MIDDLEWARE AND SERVICES ADVISORY COUNCIL (AMSAC)

#### **James Deaton**

James Deaton serves as Chief Technology Officer for OneNet, Oklahoma's official information and telecommunications network. In this capacity, he is a key decision-maker for the fully-integrated, IP-based network in terms of technology oversight, engineering and long-term research and development. He also serves as the gatekeeper for external technologies and assesses programmatic needs to assure a balance of financial resources for the network's technological developments. In addition to his responsibilities at OneNet,

Deaton is accountable for maintaining close involvement with researchers and engineers of Internet2.

## **RESEARCH ADVISORY COUNCIL (RAC)**

### **Wendy Huntoon**

Wendy Huntoon is the Director of Advanced Networking at the Pittsburgh Supercomputing Center (PSC). In this role, I have directed the networking resource group at PSC, which supports supercomputing users, carries out advanced network research and provides consulting and training to universities and research centers nationwide. I also direct the Three Rivers Optical Exchange (3ROX), a high-speed network aggregation point that provides advanced network services to Western Pennsylvania and West Virginia. In addition, I was the interim Director of Operations for National LambdaRail from 2005 - 2009. From 2001 – 2004 I served as the first Executive Director for the Quilt, a coalition of advanced regional network organizations. Throughout my tenure at PSC I have focused on developing and then supporting an environment that fosters network research within a high performance network environment. To that extent, I have been principal investigator, co-principal investigator or senior personnel on a number of federally funded research grants. Examples included: lead PI on the NSF funded NLANR Engineering Services project that provided engineering support for the advanced network community and PI on the NSF funded Web100 project, that focused on developing standards and software to support better end-to-end network performance. I have been a contributing member of the Internet2 Research Council since its inception in 2007. My recent tenure on Internet2's Research Advisory Committee confirmed my belief that I am uniquely qualified to be a representative for the regional network community on the Research Advisory Council having experience with both the regional network community and funded research projects. I believe it is critical to strategically identify the network resources available for both network and disciplinary research groups and then facilitate their use. As a long time staff member at a supercomputing center, I have also learned that there are often trade offs that need to be made in order for the network to be a useful tool for the community. This combined knowledge and experience will allow me to make meaningful contributions to the RAC.

## **EXTERNAL RELATIONS ADVISORY COUNCIL (ERAC)**

### **Tim Lance**

Since 1998, Tim Lance has served as President and Chairman of NYSERNet, the New York State Education and Research Network. During his tenure, NYSERNet deployed a statewide research network backbone, connecting initially to vBNS, and then to Abilene in New York City and Buffalo. That research backbone was a crucial tool in the rapid restoration of commodity Internet service in the hours and days after 9/11. Under his leadership, over the last eight years NYSERNet moved from dependence on carrier circuits to control of transport, beginning with a still expanding fiber deployment for the R&E, medical, and

cultural communities in New York City, and then a statewide DWDM optical infrastructure. NYSERNet created a carrier-neutral collocation facility at 32 Avenue of the Americas in Manhattan, home of MANLAN and peering point for CA\*net, GÉANT, SURFNET and other national and international networks, as well as home to nodes for ESNET and NLR. Two years ago NYSERNet created a business continuity center in Syracuse where institutions house critical IT equipment that can function in lieu of primary equipment on campus. Dr. Lance is an active participant in the Quilt, StateNets, and the EDUCAUSE Network Policy Council, which he currently chairs. Since October, 2007 Dr. Lance has also been a member of the then newly formed Internet2 External Relations Advisory Council, and has served as that Council's chair. Other Internet2 activities have included participation on writing the Strategic Plan and on search committees for the CTO, Member Relations and Communications position, and now the CEO search committee. Dr. Lance is also Distinguished Service Professor of Mathematics at the University at Albany with affiliate research positions in the departments the School of Education and the College of Computing and Information. In New York State he has been an active member of the State's Universal Broadband Council. These interests combine in work with NYSERNet member institutions, IBM, GE, Corning and other corporate research facilities in New York to explore collaboration and cooperation on major research problems like energy, environment, and health care. Tim Lance lives in Albany with his wife Anne. Their older son Peter a doctorate in economics from Chapel Hill and younger son Tim has a doctorate in math at Albany.

### **Marla Meehl**

Marla Meehl has over ten years of experience managing large network projects. In Marla's role as Section Head of the Network Engineering and Telecommunications Section (NETS) at the National Center for Atmospheric Research (NCAR) managed by the University Corporation for Atmospheric Research (UCAR), Marla develops and manages a budget of over \$4M, a staff of 25, and multiple large scale networking projects. In the past 10 years, Marla has developed and managed large external networking projects for UCAR serving research and education in Colorado, Wyoming, Utah, and New Mexico including the Front Range GigaPoP (FRGP) with cashflow of over \$2M/year, the Bi-State Optical Network (BiSON), UCAR Point of Presence (UPoP), Boulder Research and Administration Network (BRAN), and Boulder Point of Presence (BPoP). UCAR is a long time member of Internet2 and has actively used Internet2 as part of the FRGP from near Internet2's inception. Marla is also actively involved in research and education networking via The Quilt, as a member of the National LambdaRail Board of Directors, and the leader of Westnet (a long time western states affinity group that meets bi-annually).

## INDUSTRY CANDIDATES

### ARCHITECTURE AND OPERATIONS ADVISORY COUNCIL (AOAC)

#### **Drew Perkins**

Drew Perkins co-founded Infinera Corporation and serves as Infinera's CTO. Infinera provides Digital Optical Networking systems to telecommunications carriers worldwide and are unique in their use of breakthrough photonic integrated circuit (PIC) technology. Previously, Mr. Perkins was a founder of and served as the CTO for both OnFiber Communications and Lightera Networks. OnFiber developed some of the world's largest metro DWDM networks before merging with Qwest Communications. Lightera developed the CoreDirector optical switch and merged with Ciena. Mr. Perkins also served as Vice Chairman of the Optical Internetworking Forum (OIF) Technical Committee from its inception through its first year of operation. Mr. Perkins was the principal architect of numerous TCP/IP, ATM, Ethernet hardware and software products and protocols at FORE Systems, Inc. Throughout his career, Mr. Perkins has participated extensively in standards bodies including the Internet Engineering Task Force (IETF), IEEE, ATM Forum, OIF and ANSI. Mr. Perkins has 25 years of industry involvement and is well known for authoring the PPP Protocol, which continues to be the standard that is used to link the Internet together.

### APPLICATIONS, MIDDLEWARE AND SERVICES ADVISORY COUNCIL (AMSAC)

#### **Stefan Karapetkov**

Stefan Karapetkov (Polycom) brings 15 years of experience in international business, expertise in networking technologies and architectures, and profound understanding of the global communications market. Stefan grew up in Europe and has lived in the USA since 1997. He is fluent in four languages, and has a wide range of international and cross-cultural experience. He joined Siemens Communications after graduating from the University of Chemnitz in Germany (M.Sc. in electrical engineering) in 1995, and worked in technology development, product definition, and product management, both in Germany and in the United States. His work resulted in series of patents in the area of wire-line and wireless networking. After graduating from the MBA program at the Santa Clara University in California in 2001, he became increasingly involved in business management and continued developing expertise in the communications market. In 2006, he moved to Polycom to take the position of Emerging Technologies Director with a focus on audio and visual communications. He has authored numerous white papers and articles and has been a frequent speaker at industry events around the world. He writes a professional blog <http://videonetworker.blogspot.com/> that discusses market trends, industry initiatives, collaboration technology, standards and interoperability, software and hardware architectures. Stefan has been actively involved in the Internet2 community since 2007. His presentations at Internet2 meetings addressed different aspects of audio-visual communication and collaboration: telepresence, desktop video, network scalability, management, etc. His collaboration with the Manhattan School of Music in the area of Arts

and Humanities resulted in a joint presentation with Christianne Orto at the Fall 2008 Internet2 meeting. In 2009, he worked closely with Bob Dixon and other video enthusiasts in the Internet2 community to organize telepresence interoperability tests. He mobilized resources within Polycom to deliver a complete three-screen telepresence system for live interoperability demonstrations at the Fall 2009 Internet2 meeting. Throughout his work with Internet2, Stefan developed excellent relationships with members of the Internet2 staff as well as representatives of member organizations. Stefan has also been involved in TERENA, Internet2's sister organization in Europe. He presented at the TNC 2008 and 2009 conferences, and developed relationships with key members of the TERENA Secretariat, TEC, and TTC. Stefan has been invited to speak by a variety of educational organizations, such as ADEC and CUE in the USA and EUNIS and EADL in Europe. Stefan's unique experience makes him an excellent candidate for service on Internet2 Applications, Middleware, and Services Advisory Council. He will be a great source for input from the industry to the Council and an active evangelist of the Council's work to the industry and to other educational and communication industry organizations.

## **RESEARCH ADVISORY COUNCIL (RAC)**

### **Manish Nasta**

Manish Nasta is currently a Solutions Engineering Vice President for Verizon Business' Government and Education segment. He has responsibility for Solutions Engineering and Design functions for Government and Education customers representing over \$950 million in revenue. He has over 18 years of experience in the technology and telecommunications industry providing turnkey networking, communications and managed solutions to a variety of Government, Education and Corporate customers. He has led the design and implementation of several statewide and regional high performance networks. He has led several teams with focus on Next Generation IP, Optical, VoIP, Security and Managed Services in various leadership roles with Verizon. He has a Masters of Science degree in Electrical Engineering from Virginia Tech in Blacksburg, VA and a Bachelor of Engineering degree in Instrumentation Engineering from the University of Bombay in Mumbai, India. He has co-authored several papers on the use of optical fiber sensors for use in instrumentation and telemetry applications.

## **EXTERNAL RELATIONS ADVISORY COUNCIL (ERAC)**

### **David Peed**

David Peed is currently Vice President and Managing Director of Ciena Government Solutions, Inc (CGSI), a subsidiary of Ciena Corporation with dedicated resources and networking expertise to address the evolving communications requirements of the government marketplace. In this role, he is responsible for building Ciena's government business by expanding the Company's existing relationships with Department of Defense

(DoD) agencies and others within the federal, state and local marketplaces, as well as research and education institutions. Prior to assuming this role in November 2006, Mr. Peed was Vice President of Sales and Business Development for Qwest's government services division, where he played a critical role in supporting the delivery of strategic solutions to DoD and related agency networks. Previously, Mr. Peed held several senior positions in the telecommunications sector, and brings to Ciena over 20 years of information technology and sales experience in the civilian and defense industries, beginning as a lineman with C&P Tel and working through the ranks in field and business roles. Mr. Peed holds a masters degree in information systems from Johns Hopkins University and a bachelor of arts in business administration from Towson State University.