



A Quarterly Newsletter

Issue Number 4 - Spring/Summer 2011

Special Edition: The Expanded PNWGP Advisory Council:
New representatives from across the Northwest



Microsoft Research: Victor Bahl Joins PNWGP Advisory Council

Victor Bahl is the Director of the Mobile Computing Research Center (MCRC). MCRC's mission is to invent technologies that make Microsoft's mobile devices and services indispensable to the world. The Center focuses on basic and applied research in all areas related to mobile computing -- emphasis is on inter-disciplinary research where researchers from different disciplines join forces to work on hard problems, build proof-of-concept systems, engage with academia, publish scientific papers, publish software for the research community, and transfer cutting-edge technologies to Microsoft's product divisions. Prior to MCRC, Victor founded the Networking Research Group and served as its manager for 8 years. He continues to help shape Microsoft's long-term vision related to networking technologies through research and associated policy engagement with governments and institutions around the world. His personal research interests span a variety of topics in mobile computing, wireless systems design, cloud services and datacenter / enterprise networking & management. He has built and deployed several seminal and

highly cited networked systems, with over 12,500 citations; he has authored over 120 peer-reviewed papers and 130 patent applications, 76 of which have issued; he has won best paper awards at SIGCOMM and CoNext and has delivered over two dozen keynote & plenary talks; he is the founder and past Chairperson of ACM SIGMOBILE, the founder and steering committee chair of the MobiSys; and the founder and past Editor-in-Chief of ACM Mobile Computing and Communications Review. He has served as the General Chair of several IEEE and ACM conferences including SIGCOMM and MobiCom, and is serving on the steering committees of seven IEEE & ACM conferences & workshop, several of which he co-founded; he has been serving as the chair of ACM's Outstanding Contributions Award committee related to mobility for over fifteen years. He has served on the board of over half-a-dozen journals; on several NSF, NRC and FCC panels, and on over six dozen program committees. Dr. Bahl has served as IEEE Communications Society's Distinguished Lecturer (2007-09) and ACM's Distinguished Speaker (2007-10). He received Digital's Doctoral Engineering Fellowship Award in 1995 and SIGMOBILE's Distinguished Service Award in 2001. In 2004, Microsoft nominated him for the innovator of the year award. He received Microsoft's Individual Performance Award, given to the highest

performing employees in 2007 & 2010. He became an ACM Fellow in 2003, an IEEE Fellow in 2008 and a AAAS Fellow in 2010. Also in 2010 he received the IEEE Northwest Region 6 Outstanding Engineer Award. When not working, he loves to read, travel, eat in fine restaurants, watch competitive sports and action movies, and spend time drinking with friends and family.



EDITORS' CORNER

This issue of News from the Pacific Northwest Gigapop focuses on the new members of our Advisory Council, a talented group of technology professionals. This expanded Advisory Council is a priority of the PNWGP Board of Directors. The goals of the Advisory Council are threefold: (1) to provide PNWGP management and board with suggestions and feedback on PNWGP performance, services, plans and directions; (2) to create a forum for PNWGP management to provide participants with regular updates on PNWGP activities, plans and directions -- both programmatic and technical; and (3) to provide a venue and forum for informal interchange, including development of collaborative applications and opportunities, between and among participants, the PNWGP Board and PNWGP management. The Advisory Council meets twice a year. Advisory Council Working Groups (more on this in the next issue of News) may meet more often.

In other news, Bonnie Neas, vice president for information technology at North Dakota State University announced that she will be retiring at the end of the calendar year. She has been a longtime supporter and colleague, as well as a founding member of the the Advisory Council. Bonnie began her career at NDSU in 1984 and has served NDSU in many roles, including associate vice president for cyber infrastructure, interim deputy CIO, executive director for Connect ND, and associate vice president for federal government relations. Bonnie's accomplishments are numerous. Some highlights: North Dakota's Governor Hoeven presented her with the Information Technology Council of North Dakota's "Outstanding Achievement in Education" in 2006. She has been awarded \$15,128,349 in grants during her 30-year career and has served and led numerous committees at the National Science Foundation, EDUCAUSE, and Internet2. Bonnie was co-founder of the Northern Tier Network in 2003, a 12-state regional network. It has been an honor to work with Bonnie. The Board, staff, and participants of the PNWGP wish her much happiness in her retirement.

Ruisu Pokkusu, Editor

NOAA-PMEL



Russell Richards joins the PNWGP Advisory Council representing NOAA-Pacific Marine Environmental Laboratory

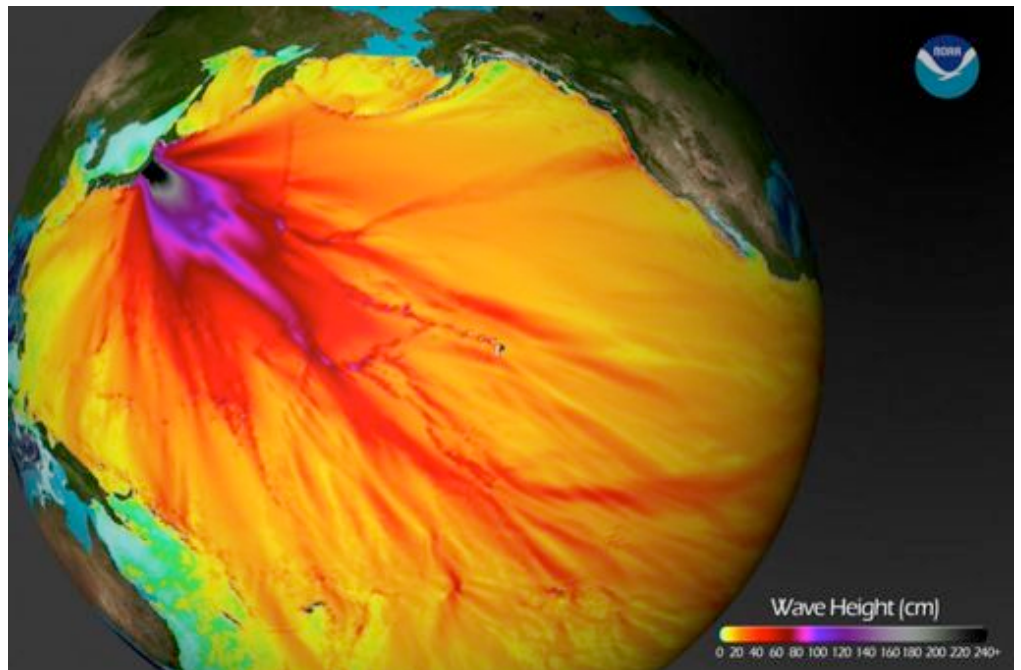
Russell Richards directs the Computing and Network Services Division at the Pacific Marine Environmental Laboratory (PMEL) located in Seattle Washington. PMEL carries out interdisciplinary scientific investigations in oceanography and atmospheric science. Current PMEL programs focus on open ocean observations in support of long-term monitoring and prediction of the ocean environment on time scales from hours to decades. Studies are conducted to improve our understanding of the complex physical and geochemical processes operating in the world oceans, to define the forcing functions and

processes driving ocean circulation and the global climate system, and to improve environmental forecasting capabilities and other supporting services for marine commerce and fisheries.

PMEL is a research laboratory within the National Oceanic and Atmospheric Administration, a bureau of the Department of Commerce. The laboratory works to provide better forecasts, earlier warnings for natural disasters and a greater understanding of environmental processes. Another important role is the development of innovative technologies and observing systems that support science efforts to better understand and manage the environment, nationally and globally.

In support of the PMEL mission, Russell is currently working with colleagues around the country to establish a Seattle hub for the new national research network being built by NOAA. This high performance network called N-Wave is a scalable, stable and secure infrastructure built using 10GB per second Wave Division Multiplexed (WDM) fiber-optic links. It is designed to connect NOAA high performance computing sites to existing NOAA research related centers such as PMEL. This network is expected to grow to serve the wide variety of research-related needs facing NOAA now and in the future.

Russell obtained his Bachelor of Science degree in Biology at the University of Notre Dame in 1981 and earned a commission in the NOAA Corps later that year. He then transferred to the IT staff at NOAA PMEL in 1987. In 1992 Russell received his Masters of Business Administration degree from Seattle University. Then, in September of 2000, he was named director for the Computing and Network Services Division at PMEL.



Seattle: Bill Schrier, Andrew Peabody, and Joanie Black



Bill Schrier

Bill Schrier is the Chief Technology Officer (CTO) for the City of Seattle and director of the City's Department of Information Technology (DoIT), reporting directly to Mayor Michael McGinn. Seattle has a population of about 600,000 residents and a City government of about 11,000 employees. DoIT has 195 full-time employees and a budget of \$49 million. Approximately 450 employees work in information technology units throughout City government.

As CTO, Schrier is responsible to set standards and policies governing the use of information technology in City government. As Director of DoIT, Schrier's responsibilities include managing the city's data center, computing services, information security, web site, municipal television station, community technology, electronic mail system, 800 MHz trunked public safety radio system, telephone network, and data communications network.

He is a current member and past chair of the King County Regional Communications Board (KC-RCB) which operates the public safety 800 MHz trunked radio system of 15,000 radios and 29 sites serving King County and Seattle. He presently chairs the City of Seattle Law-Safety-Justice Information Technology steering committee which has just finished a \$19 million project to upgrade computer-aided dispatch, records management systems and mobile applications for Seattle Police and Fire. He's been honored as a fellow of the Public Safety Foundation of America.

He writes a blog about the intersection of information technology and government, how they sometimes collide but often influence and change each other. It can be found at www.digitalcommunitiesblogs.com/CCIO/. He tweets at www.twitter.com/billschrier

Schrier is a retired officer with the U.S. Army Corps of Engineers. He holds a Masters in Public Administration from the University of Washington.

Schrier was recently elected president of the Metropolitan Information Exchange (MIX) for the coming year. MIX is a national organization of chief information officers and key technology executives of city and county governments with populations over 100,000.



Joanie Block

Joanie Block is the Chief Operating Officer of the Seattle Science Foundation; she has served in this position since SSF's opening in 2007. As one of the founding members of SSF, Joanie has played a crucial role in building partnerships between physicians and industry to develop and create a strong medical education program.

Joanie's commitment to medical education led her to collaborate with local schools, educators, industry partners and SSF's medical advisory board to create the Kids In Medicine Program (KIM). KIM is an original, experience-based science education and discovery program designed for elementary and middle school age children. Kids In Medicine provides local students field trips to SSF where they learn about heart anatomy and forensic sciences under the instruction of medical professional in SSF's lab.

With management experience in the day to day operations of clinical research in the medical center environment, combined with industry experience in the medical device start-up arena, Joanie brings a unique skill set to both the research and education endeavors of the Seattle Science Foundation.

Prior to joining SSF, Joanie's career focused on clinical research and education at Swedish Medical Center in Seattle, WA. Joanie managed both Neuroscience and Cardiovascular Research during her tenure at Swedish, with a 9 month hiatus in between roles to work in a start up medical device company.

Joanie earned her Masters Degree at the University of North Carolina at Chapel Hill in Exercise Physiology and Cardiac Rehabilitation, and her Bachelor of Science at Ithaca College in Exercise Science and Health Studies.



Andrew Peabody

Andrew Peabody has been with the Institute for Systems Biology (ISB) in Seattle Washington since shortly after it's founding more than a decade ago. Since early 2008 he has served as it's Director of Information Technology, a position he enjoys because of the ISB's cutting edge biological research which demands multiple high performance computer technologies including networking, computation, and storage. In addition to being the current President of the City of Bellevue Library Advisory Board, he is currently completing the University of Washington's Executive Master's of Public Administration program.

The Institute for Systems Biology (ISB) was established to address the greatest challenge of 21st-century science -- understanding biological complexity. Since its founding in 2000, ISB has been a pioneering source of new knowledge, innovative technologies and computational tools, and creative ways of understanding, conducting and communicating science. ISB is catalyzing fundamental paradigm changes in how the life sciences and medicine are practiced globally. Researchers at ISB are generating results that can be applied to some of society's most perplexing problems in medicine, global health and the environment.





Michael Scroggins



Rand Simmons



Peter Tomayo

Washington K20 Education Network

Three new members of the PNWGP Advisory Council will represent the Washington K-20 Education Network: Michael Scroggins for the community college system; Rand Simmons for public libraries; and Peter Tomayo for K-12 schools.

Michael Scroggins currently is the Deputy Executive Director, Information Technology Division and Chief Information Officer, Washington State Community and Technical College System.

In his current position, Michael Scroggins is the chief technologist and represents the Washington State Board for Community and Technical Colleges and Washington's 34 community and technical colleges in technology-related matters at both the state and national level. Scroggins is responsible for the management of the college data processing systems and related infrastructure. In this position he works with state agencies such as the Office of Superintendent Public Instruction, Office of Financial Management, Department of Information Services, along with K12 school districts, public universities, and community based organizations. Scroggins is responsible for managing the collection, preparation, and reporting of educational enrollment information to state and federal agencies and the legislature. Scroggins is responsible for statewide technology initiatives and other related legislative activities.

Scroggins' memberships include: Washington Higher Education Technology Consortium; National Council for Research and Planning; Data Warehousing Institute; Washington Association of Community and

Technical Colleges; Chair of K-20 Technical Working Group; Digital Learning Commons Board; and past member of the Library Council of Washington.

Rand Simmons was appointed Acting Washington State Librarian effective September 1, 2010 by Secretary of State Sam Reed. Prior to his appointment Dr. Simmons served as the Manager of the Library Development Program for the Washington State Library. He has been with the Library since May 2001.

As Washington State Librarian, Rand is both the manager of the Washington State Library, its programs and branches and is also the public face of the Library interacting with library directors and trustees, legislators and other policy makers, and government officials and the public.

In 2009 and 2010, Dr. Simmons supported the efforts of former State Librarian, Jan Walsh, to pursue federal broadband stimulus funding on behalf of Washington public libraries. A successful partnership with the Northwest Open Access Network (NoaNet) garnered over \$138 million in Broadband Technology Opportunity Program (BTOP) funds to bring high speed connectivity to much of the state. A partnership with the Bill and Melinda Gates Foundation provided \$1.5 million in broadband matching funds for public libraries.

Prior to joining the Washington State Library, Dr. Simmons was the Networking Consultant for the Idaho State Library, now the Idaho Commission for Libraries. He spent his early career in academic libraries in Oregon, Illinois, and Idaho.

Simmons holds a Ph.D. in Library and Information Science from the University of Illinois at Urbana-Champaign and a Masters of Library Science from the University of Oregon.

Peter Tamayo is the Chief Information Officer at Washington State's Office of the Superintendent of Public Instruction (OSPI). At OSPI, he coordinates the integration of technology to improve teaching and learning in the state by providing leadership and management of technology, a telecommunications infrastructure, and the tools for students, teachers and administrators in the K-12 sector.

Prior to his appointment at the OSPI, he was the CIO at the Children's Administration, the Deputy Assistant Director at the Department of Personnel, the CIO at the Department of Retirement Systems and has held other technical and management positions in state government.

Peter has professional experience at the state and national level. He is currently Vice Chair for the U.S. Department of Education Forum Tech Committee. He also serves on the Washington State Information Services Board, the Customer Advisory Board, the Washington Schools Information Processing Cooperative Board of Directors, and the K-20 Network Technical Working Group.

Peter has a Bachelor of Arts in Economics from the University of Washington and has completed the Executive Management Program in the School of Public Affairs at the University of Washington.





Ted Brown

Spokane Symphony Orchestra: Ted Brown

Ted Brown serves the Spokane Symphony Orchestra as the manager of technology infrastructure, responsible for supporting the mission of the Symphony as it incorporates technology into its mission. He helps to pioneer the use of new "Internet2 technologies" as an integral part of real-time musical training and master class programs for students located in Spokane, the region, and elsewhere in the U.S.

The Symphony is 70-piece professional orchestra performs for more than 150,000 listeners each season and provides a wide variety of exceptional educational experiences. The orchestra presents critically acclaimed performances featuring some of the world's most respected soloists.

The Symphony will perform more than 60 concerts this year. The regular season includes a 10-concert Classics series with performances on Saturday evenings and Sunday afternoons, and the Casual Classics, an informal Friday night series of 3 concerts. These are held at the beautifully restored Martin Woodson Theater at the Fox. In addition, the Symphony gives a series SuperPops concerts, including our popular Holiday Pops, at the Theater. The Symphony also presents The Nutcracker Ballet, a holiday tradition for many families in the Inland Northwest, at the INB Performing Arts Center. A highly

successful Chamber Soiree Series takes place in the Davenport Hotel's stunning Marie Antoinette Room. The orchestra also performs several community and educational concerts during the season.

Ted Brown has served non-profit organizations for over two decades. His efforts have focused on the development of technologies related to the presentation of ministry. He has also worked in numerous businesses where he gained insights into the needs and special challenges related to technologies that compliment businesses in highly competitive and economically challenging environments.

He currently volunteers with Eben-Hezer, Inc., a non-profit development company, where he serves as the CIO and oversees all technology-related systems within the organization.

Ted has been married for over 19 years and has 8 children. He is a foster parent, counselor, pastor, and leader in his community.



Martin Woodson Theater at the Fox, home to the Spokane Symphony.



Ron Hood

Seattle: Fred Hutchinson Cancer Research Center

Ron Hood is the manager of the IT Architecture group at the Fred Hutchinson Cancer Research Center. He has been at the Hutchinson Center for over 17 years and at various times has been responsible for data networking, telecommunications, information security, governance, and now IT architecture. Previously he worked at US WEST, Bell Communications Research, and Pacific Northwest Bell. Ron has a MSEE from the University of Colorado and a BSEE from Oregon State University.

At Fred Hutchinson Cancer Research Center, interdisciplinary teams of world-renowned scientists and humanitarians work together to prevent, diagnose and treat cancer, HIV/AIDS and other diseases. These researchers, including three Nobel laureates, bring a relentless pursuit and passion for health, knowledge and hope to their work and the world.

To accomplish this, the Hutchinson Center attracts some of the world's greatest minds. Admittedly, the eradication of cancer and other life-threatening diseases is an ambitious goal — one that demands tenacity, scientific excellence, collaboration and breakthrough creativity. To accomplish this, the Hutchinson Center attracts some of the world's greatest minds.



Kim Owen

North Dakota State University's new representative

Kim currently serves as Advanced Applications Coordinator for Information Technology Services at North Dakota State University where her primary responsibility is to promote and facilitate advanced applications and technologies available through research and education networks like Internet2 and the Northern Tier Network to the K20 community. Kim earned her undergraduate and master's degree in Educational Leadership at North Dakota State University.

Kim's responsibilities at NDSU include oversight of the North Dakota Sponsored Programs and Sponsored Education Group Participants. Prior to joining NDSU, Kim served the state K12 community at EduTech for twelve years where she coordinated professional development and client services in technology assessment and curriculum integration.

Kim replaces Bonnie Neas, who will be retiring from NDSU at the end of the calendar year. Bonnie was among the founding members of the Pacific Northwest Gigapop's Advisory Council.



Who's Who at the PNWGP

Board of Directors

Ed Lazowska (University of Washington) — Chair & President
Ron Johnson (University of Washington) — Vice President
David Lassner (University of Hawaii) — Vice Chair & Treasurer
Steve Smith (University of Alaska)
Bob Thompson (retired, Georgia Institute of Technology)
David Longanecker (WICHE)
Dan Jordt, ex officio (University of Washington)

Executive Staff

Amy Philipson — Executive Director
Jan Eveleth — Managing Director
Dan Jordt — Director, Networking Strategies
Louis Fox — Director, Strategic Relations
Melanie Yunis — Director, Accounting

Advisory Council

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Victor Bahl (Microsoft Research)
Joanie Block (Seattle Science Foundation)
Ted Brown (Spokane Symphony)
Jonathan Dolan (Oregon State University)
Clare Donahue (University of Washington)
Chris Gill (Gonzaga University)
Ron Hood (Fred Hutchinson Cancer Research Center)
Michael Hrybyk (BCNET)
Gwen Jacobs (Montana State University)
David Lassner (University of Hawaii)
John McCoy (Pacific Northwest National Laboratory)
Viji Murali (Washington State University)
Kees Neggers (SURFnet)
Tony Opheim (University of Idaho)
Kim Owen (North Dakota State University)
Andrew Peabody (Institute for Systems Biology)
Russ Richards (NOAA-Pacific Marine Environmental Laboratory)
Bill Schrier (City of Seattle)
Mike Scroggins (Washington K20 - Community Colleges)
John Silvester (University of Southern California and CENIC)
Rand Simmons (Washington K20 - Libraries)
Steve Smith (University of Alaska) — Vice Chair
Peter Tomayo (Washington K20 - K12)

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