

**NCREN Community Day 2012  
November 15 - 16, 2012**

**Speaker Biographies**

**THURSDAY AND FRIDAY GENERAL SESSION PRESENTERS**

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**JANNA QUITNEY ANDERSON** is the director of the major international resource *Imagining the Internet: A History and Forecast* ([www.imaginingtheinternet.org](http://www.imaginingtheinternet.org)), an initiative of the Pew Internet & American Life Project and Elon University. The site is a Webby Awards Honoree. She is the lead author of the "Future of the Internet" book series published by Cambria Press and wrote the book "Imagining the Internet" (Rowman & Littlefield, 2005), designated as a 2006 American Library Association "Choice" book - a must-have book for library reference collections. Her expertise is concentrated in the fields of the future of the internet and communications; internet history; futures studies; and print/online journalism. She has been working on research projects funded by grants from Pew Internet since 2000, and she has appeared as a speaker and participant in numerous international conferences on the future of information technologies, including the Metaverse Roadmap Project (<http://metaverseroadmap.org/>) investigating the future of social networks on the 3D Internet. She also serves as a contributor to the annual "State of the Future" reports published by the WFUNA Millennium Project (<http://www.acunu.org/millennium/mpflyer-2007.html> and <http://www.millennium-project.org>). She was on the steering committee of the WWW2010 international conference and directed FutureWeb (<http://futureweb2010.wordpress.com>). She enjoyed a 20-year career reporting and editing for daily newspapers prior to joining the faculty at Elon in 1999. She is an editorial board member of the *Newspaper Research Journal* and a reviewer for *New Media & Society*. She is also an assistant professor in Elon University's School of Communications. She teaches a general studies course tied to Futures Studies in addition to courses in the interactive media and Journalism departments at Elon. Winner of several web-design awards from AEJMC and BEA.

**SAM AVERITT**, in his most recent position as Vice Provost for Information Technology role at NC State University, led the Information Technology Division (ITD), the university's central division for academic IT, networking and strategic information technologies. Averitt was responsible for strategic IT planning and known for leading campus and regional initiatives, especially in the field of advanced networking.

A native of North Carolina, Averitt earned his BS and MS in electrical engineering from NC State. He worked his entire career at the university, joining the Computing Center (now ITD) in the 1970's when "a few dozen research faculty wanted network access to the campus mainframe." Since then, Averitt led efforts to keep the NC State campus consistently at the forefront of IT theory and practice. Averitt retired from NC State on July 1, 2010 after 37 years of service.

**ALAN BLATECKY** is currently the Director for the Office of Cyberinfrastructure (OCI) at the National Science Foundation. Before coming to NSF, Alan was the Deputy Director of the Renaissance Computing Institute (RENCI). RENCi is an institute that develops and deploys advanced technologies to support and enable research discoveries and practical innovations. The institute was launched in 2004 as a collaborative effort involving the University of North Carolina at Chapel Hill, Duke University and North Carolina State University.

Previously, Alan was the Executive Director of Research and Programs at the San Diego Supercomputing Center, Acting Division Director of Advanced Networking Infrastructure and Research, Computer Information Science and Engineering at NSF; Vice President of Information Technology at MCNC; Vice President of Networking (NCREN) and the North Carolina Supercomputing Center.

Alan has focused on establishing, developing and operating a variety of advanced high performance networking, computing, data, and visualization facilities as well as developing many new research programs and initiatives. He has also been deeply involved in the research, development and deployment of cyberinfrastructure and collaborative technologies to support multidisciplinary research and education and transform science.

**FREDERICK P. BROOKS, JR.** was born in 1931 in Durham NC, and grew up in Greenville NC. He received an A.B. summa cum laude in physics from Duke and a Ph.D. in computer science from Harvard, under Howard Aiken, the inventor of the early Harvard computers.

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He joined IBM, working in Poughkeepsie and Yorktown, NY, 1956-1965. He was an architect of the Stretch and Harvest computers and then was the project manager for the development of IBM's System/360 family of computers and then of the Operating System/360 software. For this work he received a National Medal of Technology jointly with Bob O. Evans and Erich Bloch.

Brooks and Dura Sweeney in 1957 patented an interrupt system for the IBM Stretch computer that introduced most features of today's interrupt systems. He coined the term computer architecture. His System/360 team first achieved strict compatibility, upward and downward, in a computer family. His early concern for word processing led to his selection of the 8-bit byte and the lowercase alphabet for the System/360, engineering of many new 8-bit input/output devices, and introduction of a character-string datatype in the PL/I programming language.

In 1964 he founded the Computer Science Department at the University of North Carolina at Chapel Hill and chaired it for 20 years. Currently, he is Kenan Professor of Computer Science. His principal research is in real-time, three-dimensional, computer graphics---"virtual reality." His research has helped biochemists solve the structure of complex molecules and enabled architects to "walk through" structures still being designed. He is pioneering the use of force display to supplement visual graphics.

Brooks distilled the successes and failures of the development of Operating System/360 in *The Mythical Man- Month: Essays in Software Engineering*, (1975, 20th Anniversary Edition, 1995). He further examined software engineering in a 1986 paper, "No Silver Bullet." In 1997, he and Professor Gerrit Blaauw published a major research monograph, *Computer Architecture: Concepts and Evolution*.

Brooks has served on the National Science Board and the Defense Science Board. He is a member of the National Academy of Engineering, the National Academy of Science, and the American Academy of Arts and Sciences. He has received the ACM A.M. Turing Award, the IEEE John von Neumann Medal, the IEEE Computer Society's McDowell and Computer Pioneer Awards, the ACM Allen Newell and Distinguished Service Awards, the AFIPS Harry Goode Award, the Eckert-Mauchly Award, and an honorary Doctor of Technical Science from the Swiss Federal Institute of Technology (ETH-Zürich).

He is married to Nancy Greenwood Brooks. They have three children: Kenneth, Roger, and Barbara, and nine grandchildren. Dr. Brooks became a Christian at age 31. He chaired the Executive Committee for the Central Carolina Billy Graham Crusade in 1973. The Brookses advise a chapter of InterVarsity Christian Fellowship, and he has taught an adult Sunday School class for over twenty-five years.

**CHRIS FULKERSON** is the Assistant Vice President for Technology and the Chief Information Officer. He is responsible for the leadership and management of all technology at Elon University.

Mr. Fulkerson has held various positions since joining the staff in 1982 including Assistant Professor of Communications, Director of the Library, Director of LaRose Resources Center, Director of the Teagle Professional Development Program, and Coordinator of Cable/Satellite Television. In May of 2007, he was selected as administrative staff member of the year.

Mr. Fulkerson has an undergraduate degree in Mass Communication from Saint John Fisher College in Rochester, New York and an MFA in Film and Video Production from University of North Carolina at Greensboro. He has completed the course work towards a Doctor of Education in Higher Education from Nova Southeastern University in Ft. Lauderdale, Florida.

Chris Fulkerson speaks nationally on such topics as classroom technology, teaching with technology, technology planning and forming a partnership between the library and technology. Additionally, he is active in EDUCAUSE and the Datatel Users' Group at the regional and national levels. Mr. Fulkerson has served on the advisory board for higher education at Gateway Computers, on the governance board of the North Carolina Learning Object Repository, and as a co-chair of MCNC's Collaborative Services Work Group. In 2010, Mr. Fulkerson was appointed by the Governor as technical advisor to the North Carolina eLearning Commission.

**SENATOR FLETCHER HARTSELL, JR.** was born in Concord, North Carolina, February 15, 1947. He is married and has three children and four grandchildren.

He attended public school in Concord and graduated from Concord High School in 1965. After graduating from Davidson College in 1969 with an AB in Political Science, Senator Hartsell then received his JD degree from the University of North Carolina at Chapel Hill in 1972.

After serving as an officer in the United States Army he joined the law firm of Hartsell & Hartsell in Concord, North Carolina in 1972. He is now President of Hartsell and Williams, P.A. and has served Cabarrus County in many capacities. He has served as Adjunct Professor in Constitutional Law at Barber-Scotia College, attorney for Cabarrus County Schools, Cabarrus County, and Cabarrus County Water and Sewer Authority. Senator Hartsell has also served as President as well as Secretary-Treasurer of the 19-A Judicial District Bar Association, as President of Cabarrus County Bar Association and on the Board of Governors of the North Carolina Bar Association.

Senator Hartsell has served in numerous civic and religious capacities. He holds North Carolina's highest civilian honor, Order of the Long Leaf Pine.

**REPRESENTATIVE LINDA P. JOHNSON** has served six terms in the NC House. She was first elected to the House in 2000 and currently serves District 83. Johnson serves on the following standing or select committees: Appropriations (Chairman), Commerce and Job Development, Commerce and Job Development Subcommittee on Science and Technology, Education (Vice-Chairman), House Select Committee on Childhood Obesity, House Select Committee on Education Reform, House Select Committee on Legacy Costs from the State Health Plan, Pensions and ESC, Insurance, Public Utilities, and Rules, Calendar, and Operations of the House.

**PAUL JONES** is the Director of [ibiblio.org](http://ibiblio.org), a large contributor-run digital library. Paul teaches on the faculties of the School of Journalism and Mass Communication and the School of Information and Library Science. He was the original manager of [SunSITE.unc.edu](http://SunSITE.unc.edu), one of the first WWW sites in North America and is co-author of *The Web Server Book* (Ventana, 1995) (rereleased as *The Unix Web Server Book, Second Edition* Ventana, 1997\*). Jones is author of articles on digital libraries in Communications of the ACM in May 2001 and February 2002. Jones has an additional on-going research interest in Open Source and Sharing Communities and Information policy issues as well as being an actively publishing poet -- most recently with poems in a cookbook, a travel book and in the anthology *Best American Erotic Poems: 1800 - Present* (Scribners). Jones is one of the signers of a suggestion to the FCC entitled "On Advancing the Open Internet by Distinguishing it from Specialized Services."

Jones has a particular interest in social networks and in New Media. He was the first manager of [SunSITE.unc.edu](http://SunSITE.unc.edu), one of the first World Wide Web sites in North America. He is the author of "The Web Server Book" (Ventana, 1995) and numerous articles on topics such as digital libraries and the Open Source movement.

Jones gave up email on June 1, 2011, an email sent to [jones@unc.edu](mailto:jones@unc.edu) will return a reply with an extensive list of ways that you might reach him.

**MARGARET (MEG) LOWMAN** was named Director of the Nature Research Center, the North Carolina Museum of Natural Sciences' new research-centric wing in July 2010. Lowman is internationally recognized for her pioneering research in forest canopy ecology, and often called the "mother of canopy research" as one of the first scientists to explore this "eighth continent." For 30 years, Canopy Meg has helped design hot-air balloons and walkways for treetop exploration in an effort to solve the mysteries of the world's major rain forests – Africa, Australia/Asia, and the Neotropics (including the Amazon). She relentlessly works to map the canopy for biodiversity and to champion forest conservation around the world.

As Director of the Nature Research Center, Lowman oversees the new wing's research agenda, which includes supervising senior research staff; developing, directing, implementing and fundraising for all research programs of the NRC; and assisting with the integration of existing Museum programs within Center operations. She also provides leadership for the University of North Carolina system partnership as well as partnerships with varied research organizations in the State, Federal Government and private sector. Finally, she serves as primary advocate for the Center, promoting its mission to groups ranging from elementary classes to corporate executives to international conference attendees.

In addition to her role as Director of the Nature Research Center, Lowman holds a joint appointment as a Research Professor of Natural Sciences in the College of Physical and Mathematical Sciences at NC State University, where she focuses on initiatives involving communicating science to the public.

Lowman is an expert on herbivory – the activity of insects eating plants – and is the author of more than 100 peer-reviewed publications and four books. Her upcoming book is the definitive textbook in the field, entitled "Forest Canopies." Her recent autobiography, "Life in the Treetops," received a cover review in the *New York Times Sunday Book Review* and many literary awards.

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**STEVE NORTH, MD, MPH** is a family physician and adolescent medicine specialist in the Appalachian Mountains of western North Carolina. He developed the MY Health-e-Schools school-based telemedicine program to provide comprehensive school-based health services in small rural schools. The network launched in three schools in April of 2011 and currently provides access to care for 2600 students at 10 rural schools. Dr. North founded The Center for Rural Health Innovation to explore multiple ways to improve access to quality health care in rural communities. He currently serves on the Board of Directors for the Mid-Atlantic Telehealth Resource Center, is a member of the Mission Health Telehealth Steering Committee, serves as the Chief Medical Information Officer for Blue Ridge Regional Hospital and consults nationally on the development and implementation of school-based telemedicine programs. Dr. North and his wife, Jennifer Larson, MD, are both second-generation rural physicians and live in Dr. Larson's hometown with their two sons.

**JANE SMITH PATTERSON** is President, Jane Patterson & Associates. She previously served as executive director of the e-NC Authority, an organization with a goal of bringing affordable high-speed Internet access to the citizens, businesses and institutions of North Carolina, particularly in rural areas. Prior to taking this leadership position in 2001, Patterson worked for North Carolina Gov. Jim Hunt through his four terms in office, first as secretary of administration, then as chief advisor for policy, budget and technology, and finally as senior advisor for science and technology and director of the office for technology. Patterson's background also includes working in the private industry as vice-president of ITT Corporation- Network Systems Group, of ITT-Alcatel and Alcatel, NA. Patterson has served as a vice chancellor at UNC-Wilmington and in positions with research programs at the University of Pennsylvania and UNC-Chapel Hill. She has been an advisor to many countries in the planning for deployment of national information infrastructure. Patterson has served in many positions that have direct impact on the growth of Geographical Information Systems technologies including chairing the founding year of the Global Spatial data Initiative. Patterson consistently leads focused efforts, both for her state and nationally to improve technology and its application, in order to enhance the economy of North Carolina and the United States as well as to advance educational opportunities for future generations. Currently, Patterson is the Executive Director of The e-NC Authority. Jane is a graduate of the University of North Carolina at Chapel Hill, and has completed post-graduate degree work at N.C. State University and additional studies at Harvard University. She serves on a number of boards for nonprofit organizations, including the Z. Smith Reynolds Foundation.

**MICHELLE TRAUTWEIN** is an entomologist whose research interests lie in the continued discovery and understanding of the evolution and diversification of flies and more broadly, insects, through the use of modern phylogenetic and systematic methods. Even today, basic questions about the evolution of life remain unanswered, and this is particularly the case in regard to insects, the most diverse group of multicellular life on Earth. Within insects, flies are a super radiation of life that accounts for nearly 15% of named species. The impact of flies on both humans and wild ecosystems is great. Fly vectored diseases kill over a million people a year and fly pests cost millions in agricultural damage. To our benefit, flies are also essential pollinators and decomposers, and as model organisms they have played a key role in some of the most important scientific discoveries of the past century. More than any other group of animal's flies offer a measure of just how much life can vary. There are flies that live in petroleum, in the gills of land crabs, on the dung of millipedes and within bee hives. There are wingless flies that live on sheep and others that develop exclusively within the bodies of frogs, spiders or even humans. Flies, in short, are consequential, but also emblematic of the diversity of life.

Trautwein's research includes collecting and sampling organisms (sometimes in remote locales, sometimes in urban backyards), understanding their classification, evolutionary relationships and histories, determining how fast they diversified, and finally using this information to test hypotheses about general features of evolution and its poorly understood rules. While doing so, Dr. Trautwein seeks to draw the public into the process of research and discovery. Her current research focuses are: 1) Higher-level studies of the ancient history of insect and fly evolution 2) Taxonomic and evolutionary studies of bee flies (Diptera: Bombyliidae), a charismatic group of bee and wasp-mimicking parasites and pollinators 3) Citizen science projects that include understanding the diversity of arthropods that live and evolve with us (Wild Life of our Homes- Dunn lab, NCSU) and exploring the species limits of the cicadas of North Carolina.

Though she began her studies as an art major, Trautwein received a BS in Biology from the University of Texas at Austin in 1999. Before returning to graduate school, she assisted with research on frogs in Costa Rica, pigeon guillemots in Alaska, prairie dogs in Utah, and bottlenose dolphins in Florida. An internship at the Smithsonian National Museum of Natural History reintroduced her to flies, and as a GAAN Biotechnology fellow she received her Ph.D. in Entomology from North Carolina State University in 2009.

**JONATHAN VESTER** has worked at various institutions of higher education for the past 15 years. During this time, he has held positions ranging from PC Technician to Director of Institutional Research. Jonathan has consulted for many

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institutions as a technology, institutional data, and curriculum design analyst. His current position as Chief Information Officer for Nash Community College, as well as his membership on the Network Services Operations Committee, has provided him with the opportunity to work directly with MCNC on several projects including the Movi pilot. This project has brought synchronous video instruction directly into the homes and offices of students. Jonathan holds an Associates in Applied Science in Information Systems from Wilson Community College, and both a Bachelor of Science in Business Administration/Computer Information Systems and a Master of Arts in Education in Community College Administration from Western Carolina University. He lives in rural Nash County with his wife and four children.

**MLADEN A. VOUK** received Ph.D. from the King's College, University of London, U.K. He is Department Head and Professor of Computer Science, and Associate Vice Provost for Information Technology at N.C. State University, Raleigh, N.C., U.S.A. Dr. Vouk has extensive experience in both commercial software production and academic computing. He is the author/co-author of over 300 publications. His research and development interests include software engineering, scientific computing and analytics, information technology (IT) assisted education, and high-performance and cloud computing. Dr. Vouk has extensive professional visibility through organization of professional meetings, membership on professional journal editorial boards, and professional consulting. Dr. Vouk is a member of the IFIP Working Group 2.5 on Numerical Software, and a recipient of the IFIP Silver Core award. He is an IEEE Fellow, and a recipient of the IEEE Distinguished Service and Gold Core Awards. He is a member of several IEEE societies, and of ASEE, ASQ (Senior Member), ACM, and Sigma Xi.

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#### GRANT WRITING AND SOCIAL MEDIA PRESENTERS

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**DAVID L. ELLIOTT, JD**, is the Director of the Victims and Citizens Section of the North Carolina Department of Justice. He manages a staff of attorneys and specialists, who research, propose, develop and implement policy initiatives related to consumer fraud, internet safety, open government, hate crimes, domestic violence, child abuse, methamphetamine, and sexual assault. He manages the Attorney General's educational and safety programs throughout the State of North Carolina.

Cases David has litigates include both state and federal cases. He has argued before the North Carolina Court of Appeals and the North Carolina Supreme Court. He briefed and successfully argued *State v. Harris*. The decision in *State v. Harris* helped restore the protections contained in North Carolina's rape shield law. David participated in the NAAG multi-state investigation of Ford and Firestone that resulted in settlements which totaled in excess of 90 million dollars.

During his 10 years as a litigator in the Consumer Protection Division, David prosecuted hundreds of cases involving unfair and deceptive trade practices. His experiences both as a consumer protection attorney and as a victims advocate have made him an expert in fraud and predation. David was asked to represent North Carolina as a panelist at the 2011 National Association of Attorneys General Presidential Summit. David is a frequent speaker, teacher, and facilitator and has written *My First Fish, The Secret of Little Hooks*. The book marries his passion for fishing with his joy of sharing life lessons.

David graduated from the University of the University of North Carolina at Chapel Hill and Duke University School of Law. He clerked for the Honorable Richard C. Erwin, United States District Court Judge, Middle District of North Carolina.

**NOAH GARRETT** is founder and chief storyteller of NGC Communications. Noah was born and raised in Virginia Beach, Va., and now calls Charleston, S.C. home. He is married to his wife Rachael and has two children, Alaina and Ryan.

Noah is responsible for all operations and strategy for NGC Communications. His professional career began on the Outer Banks of North Carolina where he was a reporter/editor/photographer and columnist for The Coastland Times. Later, he moved to radio where he was a morning radio personality and program director with WFMZ, WZPR, and WVOD. Eventually, he was recruited to direct all operations for Red Pearl Productions, an entertainment company focused on promotions, fund-raising, and interactive event planning. He then accepted a position as Executive Director of Communications and Government Affairs for the North Carolina Technology Association in Research Triangle Park, N.C. There, he was able to work with leading-edge technology companies and generate a broad network of contacts in the

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industry. In 2007, he founded NGC Communications with the idea of saving companies money without sacrificing quality through outsourced managed marketing services. To date, NGC has grown exponentially and continues to raise the bar for marketing and public relations services nationwide. NGC's industry-leading PR 2.0 platform has been used by a range of clients and companies to small non-profit organizations to Fortune 500 companies. Noah's dedication to his family, his clients and his profession have made him an influential member of the industry. Follow on Twitter [@ThinkNGC](#).

Noah has a B.A. in Communications and Political Science from Francis Marion University. He also is an active member of several trade organizations, volunteer groups, and currently sits on the Board of Directors for Mission Caridad.

**JENNIFER LAGARDE** (aka library girl!) is the lead librarian for New Hanover Schools and an Educator on Loan for the NC Department of Public Instruction. Jennifer earned her undergraduate degree in English Education from the Watson School of Education at the University of North Carolina at Wilmington (UNCW) and her graduate degree in Library Science from Appalachian State University. She is also a Nationally Board Certified School Librarian. Jennifer is the Social Media Special Committee Chair for the North Carolina School Library Media Association, was a founding member of NCSLMA's Young Adult Book Award and shares NCSLMA webmaster duties with another North Carolina librarian. In 2011, Jennifer was awarded the "I Love My Librarian Award" by the American Library Association, The Carnegie Corporation of New York and The New York Times. She was also named a 2011 "Mover and Shaker" by Library Journal. Jennifer is the author of the award winning blog The Adventures of Library Girl where she proves you don't have to be super hero to teach Middle School, but having a cape sure helps."

**DARRYL MCGRAW** is a product of the North Carolina Community College System, having received his A.A. degree from Southeastern Community College. He went on to receive a B.S. in Computer Science from North Carolina State University, and an M.B.A. from Campbell University. He completed his Ed.D. at North Carolina State University, where his research centered on distance education in the North Carolina Community College System.

Having taught at NC State University in the College of Engineering and the College of Education, Darryl holds current academic faculty appointments in the NCSU College of Education, the Army Research Institute, and Campbell University. He is past president of the NC chapter of the US Distance Learning Association, and has held positions in the numerous other distance learning organizations, including the Instructional Telecommunications Council.

He has a significant amount of industrial experience in information technology outside of academia, including over 10 years spent in programming and project management. He has held a number of increasingly responsible positions in academic administration, mostly centering around the fields of academic and administrative technology in education. Currently, he serves as the Chief Information Officer for Wake Technical Community College.

**MICHAEL VAUGHN** has spent over 10 years working with educational technology and distance learning in higher education. He regularly gives comedic presentations about the influence of technology on our personal and professional lives, and has performed for over 35,000 college students and families during the past three years. Michael has presented for numerous schools and organizations in Northeast Ohio, including Kent State University, Case Western Reserve University, the Cleveland Hillel Foundation, and Jobs for Ohio Graduates. He also runs a Tumblr blog (<http://world-shaker.net>) about educational technology and social media that has almost 45,000 followers, and was included on BuzzFeed.com's "90 Best Tumblr Blogs of 2011." Michael recently joined Teaching and Learning Technologies at Elon University as an Instructional Technologist.

You can contact Michael here: <http://about.me/mv>

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**MCNC STAFF PRESENTERS**

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**TODD BROUCKSOU**, Sr. Director, MCNC Community Support & Systems Operations

**JEREMY BUENVIAJE**, Sr. Manager, Network Operations & Customer Fulfillment

**CHRIS CASWELL**, Manager, Systems Operations

**JOE FREDDOSO**, President & CEO

**DAVE FURINESS**, Director, Client Network Engineering / K-12 Advocate

**DARLEENE HEATH**, Director, Community Education & Communications

**TOMMY JACOBSON**, COO & VP Network Infrastructure Initiatives

**MARK JOHNSON**, Chief Technology Officer

**PAUL KAMEN**, Web Application Developer

**JOHN T. KILLEBREW**, VP, NCREN Community Support

**ROBIN KIMBLE**, NCREN Client Advocate, Community Colleges

**BRIAN LAYH**, MCNC Community Support Team Lead & NCREN Client Advocate

**PAT MOODY**, Chief Financial Officer

**JOHN MOORE**, Sr. Director, Advanced Initiatives & Strategic Planning

**DAVID WARDEN**, Sr. Director, Business Development & Fiber Plant Management

**MICHELLE WEBSTER**, Documentation & Web Content Manager