2016 NSF Cybersecurity Summit for
Large Facilities and Cyberinfrastructure

Bios for Speakers, Authors, Program Committee Members,
Organizers, and Student Awardees

In alphabetical order by surname

Mine Altunay is a computer science researcher focusing on information security. At Fermilab, she is responsible for ensuring scientific infrastructure meet the laboratory's security requirements and provide a secure and convenient environment for our scientists. In addition to her role at Fermilab, she is responsible for security of the worldwide CMS collaboration and also act as the OSG Security Officer. She has a PhD in information security from North Carolina State University. Her main research focus has been on identity management in distributed collaborative environments such as cloud computing. In the past, she was a research fellow at IBM Research at Tokyo Japan, and was a member of IBM Extreme Blue team and IBM HiPODS teams.

*

Steve Barnet has specialized in supporting scientific and academic computing for nearly 20 years. During that time, he has worked in multiple domains including storage, networking, high-throughput computing, and security. He handled his first incident in 1995, a compromised Solaris system providing several important infrastructure services.

Steve currently works for the IceCube project, a kilometer scale neutrino detector located at the geographic South Pole. He began collaborating with CTSC in 2013 to develop a Cybersecurity plan for the IceCube facility.

*

Dr. Jim Basney is a senior research scientist in the cybersecurity group at the National Center for Supercomputing Applications at the University of Illinois at Urbana-Champaign. Jim's area of expertise is identity management for scientific collaborations. He is PI of the CILogon project and co-PI of the Center for Trustworthy Scientific Cyberinfrastructure, FeduShare, and Software Assurance Marketplace projects. Jim also contributes to the LIGO, LSST, and XSEDE projects. He received his PhD in computer sciences from the University of Wisconsin-Madison.

*

Tony Baylis of Lawrence Livermore National Laboratory is the Laboratory's Director for the Office of Strategic Diversity and Inclusion Programs. In this position, he is the senior management advocate for diversity and inclusion for the Laboratory. The Office of Strategic Diversity and Inclusion Programs partners with senior management to develop strategies, initiatives, programs, and activities that promote the creation of a diverse and inclusive workforce and work environment. Tony serves as the Laboratory's EEO, AA and Diversity compliance officer as well. In conjunction with these tasks, Tony is responsible for overseeing the laboratory's interactions and successful execution in building, partnering and collaborating with governmental, educational, industrial, community interests and other stakeholders. LLNL has had a long history in working with Minority Serving Institutions, specifically relationships with American Indian Institutions, Hispanic Institutions and Historically Black College and Universities. He represents the Laboratory on the subjects of Diversity and Inclusion,

STEM, Outreach Efforts, and Student Programs.

Tony's career represents 26 years of administrative, project, program, technical and organizational management. He has worked in a scientific and technical environment for over 20 years and has worked as an consultant in industry as well. Tony has extensive experience networking with a broad range of academic, industry, government and non-profit organizations that has educated him and helped him in his career. He serves on a number of conference program committees and advisory boards that promote STEM and diversity in science and technical careers. He has been an NSF reviewer and PI/Co-Pi for the Broadening Participation in Computing Program. Tony is also an ACM and ACM SIGGRAPH member, and serves as the Treasurer for ACM SIGGRAPH. He is a graduate of the University of Illinois.

*

RuthAnne Bevier, is the Chief Information Security Officer at the California Institute of Technology. She joined Caltech in 1996, and has worked in Information Security there since 1999. In 2004 she served on the program committee for the first of what became the NSF Cybersecurity Summit for Large Facilities and Cyberinfrastructure. More recently she served as a reviewer for the 2104 National Academies publication, _At The Nexus of Cybersecurity and Public Policy: Some Basic Concepts and Issues.

RuthAnne received her Master's degree in Library and Information Science from the University of California, Berkeley.

*

Leslee A. Cooper serves as the Administrative & Finance Director at Indiana University's Center for Applied Cybersecurity Research (CACR). She is a graduate of the IU School of Business (B.S. '93). Leslee comes to the CACR and CTSC from a background in Management, Finance and Accounting. She has worked with government divisions, as well as in the private sector.

*

Michael Corn is the Deputy CIO and CISO for Brandeis University. His areas of interest include privacy, identity management, and cloud services. He has been an active speaker and author on security and privacy and has participated in numerous Educause and Internet2 initiatives. He is a member of the Internet2 Netplus Product Advisory Board and until recently was also a member of the Box.com and Splunk Product Advisory Boards, as well as the Kuali Ready Product Board.

Prior to joining Brandeis he was the CISO and Chief Privacy and Security Officer of the University of Illinois at Urbana-Champaign. He is a graduate of the University of Colorado at Boulder and the University of Illinois at Urbana-Champaign.

*

Robert (Bob) Cowles is principal in BrightLite Information Security performing cybersecurity assessments and consulting in research and education about information security and identity management. He served as CISO at SLAC National Accelerator Laboratory (1997-2012); participated in security policy development for LHC Computing Grid (2001-2008); and was an instructor at University of Hong Kong in information security (2000-2003).

*

Dominique Dalanni is a junior at California State University, Dominguez Hills where she is pursuing a Bachelor's of Science in Computer Science. In addition to her studies, Ms. Dalanni is currently the president of the Women in Stem Club, vice president and student advocate for the Computing Alliance of Hispanic Serving Institutions (CAHSI) Club CSUDH chapter, and secretary of the Cybersecurity Club at her university. She also serves as a research assistant in a project funded by the Nuclear Regulatory Commission and in 2015 was selected to represent her university as a CSU Trustee Award recipient and scholar.

After completing her undergraduate education, Ms. Dalanni hopes to pursue a graduate degree at George Washington University in Computer Science with a specialization in Cybersecurity. Once she has received her graduate degree, Ms. Dalanni would like explore job opportunities which focus on threat analysis, governance, or on the overall security of industrial control systems.

*

Jeannette Dopheide is an education outreach coordinator at NCSA. Her experience in education and outreach began as a high school teacher before moving onto business systems analysis and applications training for a commercial software company. Jeannette joined CTSC and NCSA in 2014 and works primarily on education outreach for projects that impact both CTSC and NCSA, including the Bro Project. Jeannette is a graduate of Illinois State University.

*

Dave Dykstra received his PhD in Computer Science from the University of Illinois at Urbana-Champaign. For the first part of his career he worked for AT&T and Lucent, where he was best known for being the leader of the Exptools project that distributed software binaries to developers throughout the company, mostly open source software. During that time he also led the open source rsync project for a year. For the past 10 years he has been at Fermilab where his primary duties have been supporting the Frontier Distributed Database system for CMS and ATLAS, the Worldwide LHC Computing Grid's squid web proxy caching network, and the Open Science Grid's installation of the CernVM Filesystem, and also doing security research for the Open Science Grid.

*

Vitaly Ford is a 5th year doctoral student in Computer Science at Tennessee Tech University. His research areas include privacy and information security in the Smart Grid as well as cybersecurity education. He is one of the founders and an advisor for CyberEagles cybersecurity club at Tennessee Tech. Vitaly promotes cybersecurity education and training among students at the National Cybersecurity Student Association as an Advisory Board member. His dissertation topic is about developing an efficient privacy-preserving advanced metering infrastructure supporting fine-grained data analysis. In his free time, Vitaly enjoys playing table tennis and chess as well as participating in Capture The Flag cybersecurity competitions. His career goal is to become a faculty member after graduation.

*

Barbara Fossum is a senior executive with over 25 years of leadership and management experience in higher academic and government sectors including high performance computing, data visualization, engineering and academic research. Barbara contributed several federally funded grants including the

Network for Engineering Simulations where she successfully directed all operations and the development of a curated data repository for all earthquake engineering data. She is currently the CEO of BMF Consulting, providing extensive experience in human resource planning and operations, organizational change, team building, organizational effectiveness and facilitative leadership.

*

Ian Foster is a Professor of Computer Science at the University of Chicago and a Senior Scientist and Distinguished Fellow at Argonne National Laboratory. Originally from New Zealand, he has lived in Chicago for longer than he likes to admit. Ian has a long record of research contributions in high-performance computing, distributed systems, and data-driven discovery. He has also led US and international projects that have produced widely used software systems and scientific computing infrastructures. He has published hundreds of scientific papers and six books on these and other topics. Ian is an elected fellow of the American Association for the Advancement of Science, the Association for Computing Machinery, and the British Computer Society. His awards include the British Computer Society's Lovelace Medal and the IEEE Tsutomu Kanai award.

*

Nikita Golubets is a student majoring in Information Assurance & Cyber Defense with a main focus in Network Security/Administration at Eastern Michigan University. He enjoys taking part in Information Security competitions such as ISTS (The Information Security Talent Search) and CCDC (National Collegiate Cyber Defense Competition). After graduation, he would like to obtain a position that will allow him to gain experience in either malware analysis or system administration.

*

Vlad Grigorescu is a Security Engineer for the Incident Response and Security team at the National Center for Supercomputing Applications. Vlad is also a core developer on The Bro Project. In addition to his work on Bro he is the creator and developer of Brownian, a web interface for interacting with Bro logs. Vlad earned a B.S. in computer engineering from the University of Illinois at Urbana-Champaign.

*

Ragib Hasan, Ph.D., is a tenure-track Assistant Professor at the Department of Computer and Information Sciences at the University of Alabama at Birmingham.

Hasan explores research on cloud security, the Internet of Things, digital forensics, mobile malware security, secure provenance, biomedical device security, social network security, and database security. Hasan is the founder of the Secure and Trustworthy Computing Lab (SECRETLab) at UAB. He is also a member of the UAB Center for Information Assurance and Joint Forensics Research and a member of the NIST Working group on Cloud Forensics.

Prior to joining UAB, He received his Ph.D. and M.S. in Computer Science from the University of Illinois at Urbana Champaign in October, 2009, and December, 2005, respectively, and was an NSF/CRA Computing Innovation Fellow post-doc at the Department of Computer Science, Johns Hopkins University.

Dr. Hasan's research is supported by the Department of Homeland Security, the Office of Naval Research, the National Science Foundation, Facebook Inc., Google Inc., and Amazon Inc. He is a 2014

awardee of the prestigious NSF CAREER Award from the National Science Foundation for his work on cloud security. Dr. Hasan is also a recipient of the 2015 mBillionth Award for m-learning, the 2013 Google RISE Award, a 2013 Information Society Innovation Fund Award. 2014 Deutsche-Welle Best of Blogs and Online Innovation award for his BanglaBraille project, a 2011 Google Faculty Research Award, the 2009 NSF Computing Innovation Fellowship and the 2003 Chancellor Award and Gold Medal from Bangladesh University of Engineering and Technology. He is a founding member of Wikimedia Bangladesh chapter, a long term administrator of Bangla and English Wikipedias, and also the founder of Shikkhok.com – an award-winning online education platform for advancing STEM education in rural areas of India and Bangladesh which has won the 2013 Google RISE Award and 2013 Information Society Innovation Fund Award.

*

Ardoth Hassler is Associate Vice President of University Information Services at Georgetown University. Her work focuses on policy, planning and research, including being the PI for NSF CC-NIE and CC-IIE awards. In addition, she is Interim Director of the Student Information Systems group. Ardoth was on loan to the National Science Foundation 2007-2011 where she served as Senior Information Technology Advisor in the Office of the Chief Information Officer in the NSF Office of Information and Resource Management, Division of Information Systems. Her activities included work related to cybersecurity best practices for large research facilities, working on technology policy for the Foundation and large research facilities, assisting NSF in joining the InCommon Federation and introducing concepts of single-sign-on logon to Research.gov, leading the "SSN Be Gone" project to remove SSNs from FastLane and other systems where there was no business need, working on NSF's "Got Green", initiative, etc. She has prior experience serving on the program committees of the NSF Cybersecurity Summit, EDUCAUSE Annual Conferences, etc. She has a BS in Math (CS minor) from Oklahoma State University and an MS in Biostatistics from the University of Oklahoma.

*

Victor Hazlewood is the Chief Operating Officer of the Joint Institute for Computational Sciences (JICS) at the University of Tennessee responsible for Networking, Security and Operations with over 27 years of experience in High Performance Computing (HPC) in the research community. Victor has extensive security knowledge and experience in the academic research environment including participation in the TeraGrid and XSEDE Incident Response program and participation in the community response to the 2004-2005 Stakkato incident. Victor is currently the Deputy Director of Operations for XSEDE and is PI on the UT portion of the NSF collaborative award for the DANCES software defined networking project (http://www.dances-sdn.org/).

*

Randy Heiland is a Senior Systems Analyst/Programmer at IU's Center for Applied Cybersecurity Research. He has spent most of his career developing software for a wide range of science and engineering disciplines - in industry, government labs, and academia. Since 2013, he has been part of the NSF CTSC project (trustedci.org) and contributed to several engagements (trustedci.org/engagements). He has broad interests in mathematics and science and enjoys sharing those passions with young people. (MS/Computer Science, U. Utah; MA/Mathematics, Arizona State U.)

*

Todd Herring is the Membership Services Director for REN-ISAC. He has worked as an IT professional for Indiana University, in one capacity or another, for over 20 years, cutting his teeth in a Novell world with command prompts and minuscule amounts of memory and disk compared to today. He became more deeply focused on security back in the early 2000s, when it became apparent that unprotected systems could be compromised in a matter of minutes. As a network systems admin, he was responsible for securing servers and workstations; configuring solid computer builds; configuring firewalls, IPSec, and group policy objects; and documenting procedures and change management activities. More recently, Mr. Herring has been involved with IT security compliance as part of an enterprise risk management project at IU. His role at REN-ISAC is focused on membership and partner relationships, leading projects geared toward improved services.

*

Elisa Heymann is a Senior Scientist at the Computer Sciences Department of the University of Wisconsin-Madison, and an Associate Professor in the Computer Architecture and Operating Systems Department at the Autonomous University of Barcelona (UAB). She co-directs the MIST software vulnerability assessment project in collaboration with her colleagues at the University of Wisconsin.

Heymann is part of CTSC, the NFS cyber security center for excellence, where she works on Software Assurance training and engagements. Heymann carries out training in universities, companies, and conferences around the world.

Heymann's research interests include security and resource management for Grid and Cloud environments, and cyber-security in transportation. Her research is supported by NSF, the Spanish government, the European Commission, and NATO.

Heymann received her M.S. and Ph.D. degrees in Computer Science from the Autonomous University of Barcelona (Spain) in 1995 and 2001 respectively.

*

Tim Howard is the Information Technology Operations and Security Program Manager for the National Science Foundation U.S. Antarctic Program (USAP). Tim oversees the IT infrastructure operations and cybersecurity activities at 11 USAP operating locations, including three Antarctic research stations and two research vessels. Each year, the USAP IT infrastructure supports 118 science and technical events conducted by 72 academic institutions and federal agencies across eight major science program areas, including the IceCube Neutrino Array and the South Pole telescope. Prior to his arrival at NSF, Tim served as the Information Security Team Lead for NOAA's weather satellites, which included an assignment to the NOAA-NASA team that successfully refurbished the Deep Space Climate Observatory, which launched in February 2015 and is now orbiting the Sun-Earth L-1 libration point, where it collects solar winds measurements to help the National Weather Service provide early warning space weather forecasts to the energy, telecommunications, and other critical infrastructure sectors. Tim is a Certified Information System Security Professional (CISSP), and a Penn State grad with a Bachelor of Science degree in Aerospace Engineering. Tim also holds a Master of Science degree in Telecommunications Management from the University of Maryland University College and is currently participating in the Chief Information Officer certificate program at Carnegie-Mellon University.

*

Craig Jackson is Chief Policy Analyst at Indiana University's Center for Applied Cybersecurity Research (CACR), where his research interests include risk management, information security program development and governance, legal and regulatory regimes' impact on information security, and identity management. He is a co-PI for the Center for Trustworthy Scientific Cyberinfrastructure (CTSC); he is a member of the security team for the DHS-funded Software Assurance Marketplace (SWAMP); and he is part of the DOE-funded XSIM (Extreme Scale Identity Management) project. He is a graduate of the IU Maurer School of Law (J.D.'10) and IU School of Education (M.S.'04). As a member of the Indiana bar, Mr. Jackson has represented government and corporate clients in constitutional and tort claims. His research, design, and project management background includes work at IU School of Education's Center for Research on Learning and Technology and Washington University in St. Louis School of Medicine. He is a member of Phi Beta Kappa, and was a Lien Honorary Scholar at Washington University in St. Louis.

*

Deja T. Jackson is an undergraduate at Kennesaw State University pursuing a degree in Computer Science. After receiving the National Center for Women in Technology Georgia award in 2015, she has been inspired to help and foster interest in computing within others; therefore has immersed herself in a variety of leadership positions including Student Government Senator for the College of Computing, and Vice-President of Object-Oriented Owls, a program designed to support women in computing. She has also been active in numerous research opportunities including the Louis Stokes Alliance for Minority Participation and the Georgia Tech Undergraduate research program, both funded by the NSF. Upon graduation, Deja hopes to use her experience and knowledge to land a career in cyber security within the private sector.

*

Rasib Khan, Ph.D., is an Assistant Professor of Cybersecurity in the department of Computer Science at Northern Kentucky University (NKU). Khan received his Ph.D. in Computer and Information Sciences from University of Alabama at Birmingham (UAB) in 2016. He worked in the SECuRE and Trustworthy computing Lab (SECRETLab) at the Center for Information Assurance and Joint Forensics Research (The Center) at UAB while working on his research on secure service frameworks, information provenance, authentication and authorization in cloud, distributed, and decentralized systems. He served as the lead researcher at SECRETLab for the Department of Homeland Security funded project on secure location provenance for mobile devices. Khan was a NordSecMob European Union Erasmus Mundus Scholar, and received dual MS degrees in Security and Mobile Computing from Royal Institute of Technology (KTH), Sweden, and Aalto University (formerly Helsinki University of Technology), Finland in 2011. Khan also worked as the security researcher in the European Union FP7 PURSUIT project while working at Helsinki Institute for Information Technology (HIIT), Finland, from 2011 till before moving to the US in 2012. Prior to joining HIIT, he worked in the Cloud Security group at Nomadic Lab, Ericsson Research, Finland, where he worked on decentralized authentication systems and cloud computing frameworks.

*

Ryan Kiser, IT Specialist, Center for Applied Cybersecurity Research

*

Scott Koranda, PhD, specializes on identity management architecture for research organizations. Since 2008, Scott Koranda has designed, deployed, and supported production SAML infrastructures

including both the Shibboleth Identity Provider (IdP) and Service Provider (SP) software, for the research and education sectors.

A member of the Laser Interferometer Gravitational-Wave Observatory (LIGO) collaboration for over 10 years, Scott has served as the lead architect for the LIGO Identity and Access Management project since 2007. He was co-principal investigator on the NSF grant that funds COmanage development, and is a consultant with Spherical Cow Group.

*

Peter Kuper is a Partner with In-Q-Tel, the nonprofit strategic investment firm that identifies, adapts, and delivers innovative technologies to support the missions of the U.S. Intelligence Community. Peter actively seeks and works with private companies with a particular focus on security and enterprise software. Previously, Peter was the lead software analyst for Morgan Stanley where he published industry leading investment reports and led over 18 public transactions.

Peter was a Wall Street analyst for 15 years offering him the opportunity to work with some of the most dynamic and talented public and private companies and the world's leading investment professionals. As a visible voice for the software industry, Peter has given numerous presentations to professional and government groups and has been interviewed on CNBC, Bloomberg Television, and quoted in most leading publications including *The Wall Street Journal* and *The Financial Times*. He has also published articles in *IEEE Magazine*. Peter currently serves as an adviser to the Pacific Northwest National Lab and is a Faculty member for IANS.

*

Lee Liming is a Technical Communications Manager at the Computation Institute, a joint venture between The University of Chicago and Argonne National Laboratory. He has spent sixteen years working with scientists from many fields of study to build computing systems capable of supporting their ever-growing data and computing needs. Past collaborations have included civil engineers, space scientists and astronomers, climate scientists, high-energy physicists, energy scientists, cosmologists, social scientists and librarians, neuroscientists, cancer researchers, and, of course, computer scientists. Prior to working at the University of Chicago and Argonne, Lee was a Sr. Product Manager and Principle Engineer at ProQuest Information and Learning and an information technology manager at the University of Michigan. Lee received a B.S.E degree in Computer Engineering at the University of Michigan.

*

James A. Marsteller, Jr. (CISSP) is the Chief Information Security Officer of the Pittsburgh Supercomputing Center,where he is responsible for ensuring the availability and integrity of the PSC's high performance computing assets. Jim has over 16 years experience in the information security field and more than 25 years of professional experience in the field of technology. He also serves as a member of the board for the Pittsburgh Infragard Chapter. Prior to working at PSC, he was a program manager for the Carnegie Mellon Research Institute that provided information security consulting services for government agencies and Fortune 500 companies. Jim co-leads the XSEDE Incident Response team and is XSEDE's security officer. He is a Co-PI for the Center for Trustworthy Scientific Cyberinfrastructure (CTSC). Jim has served as the program chair the Cybersecurity Summit since 2009.

*

Nathaniel Mendoza is Chief Security Officer and Senior Network Administrator at the University Of Texas Austin's, Texas Advanced Computing Center (TACC) where he leads a group of the Security, Network, and Systems Administrators. Current areas of work include Cloud Computing, High Speed Networks, Operational Security, and Compliance. Additionally, he is a part of the XSEDE security group and has been a member of Super Computing's SCInet. Previous to joining TACC in 2011 he was the Chief Security Officer and Senior Network Engineer at the University of Tennessee Knoxville's, National Institute for Computational Sciences (NICS).

*

Kim Milford is the Executive Director of REN-ISAC. Under Executive Director Milford's oversight, REN-ISAC provides research and education institutions with services that facilitate better information security and leads REN-ISAC operations, hosted at Indiana University. She joined Indiana University in 2007 and served in leading strategic IT initiatives, directing the work of the University Information Policy Office, and as the Chief Privacy Officer.

Previously, Milford served as the Information Security Officer at the University of Rochester, where she led a comprehensive information security program. As Information Security Manager at University of Wisconsin-Madison, she co-led the establishment of the university's information security department. Millford has a J.D. from John Marshall and a B.S. in Accounting from St Louis University.

*

Barton Miller is Professor of Computer Sciences at the University of Wisconsin. He is Chief Scientist for the DHS Software Assurance Marketplace research facility. He co-directs the MIST software vulnerability assessment project in collaboration with his colleagues at the Autonomous University of Barcelona. He also leads Paradyn Parallel Performance Tool project, which is investigating performance and instrumentation technologies for parallel and distributed applications and systems. His research interests include systems security, binary and malicious code analysis and instrumentation extreme scale systems, parallel and distributed program measurement and debugging, and mobile computing. Miller's research is supported by the U.S. Department of Homeland Security, U.S. Department of Energy, National Science Foundation, NATO, and various corporations.

In 1988, Miller founded the field of Fuzz random software testing, which is the foundation of many security and software engineering disciplines. In 1992, Miller (working with his then-student, Prof. Jeffrey Hollingsworth, founded the field of dynamic binary code instrumentation and coined the term "dynamic instrumentation". Dynamic instrumentation forms the basis for his current efforts in malware analysis and instrumentation.

Miller was the chair of the IDA Center for Computing Sciences Program Review Committee, a member of the Los Alamos National Laboratory Computing, Communications and Networking Division Review Committee, and has been on the U.S. Secret Service
Electronic Crimes Task Force (Chicago Area), the Advisory Committee for Tuskegee University's High Performance Computing Program, and the Advisory Board for the International Summer Institute on Parallel Computer Architectures, Languages, and
Algorithms in Prague. Miller is an active participant in the European Union APART performance tools initiative.

Miller received his Ph.D. degree in Computer Science from the University of California, Berkeley in 1984. He is a Fellow of the ACM.

*

Tim Minick is the Director of Information Technology for HPM Building Supply, an employee owned retailer, manufacturer, and building materials company with branches across the Hawaiian Islands. In the decade prior to joining HPM Tim worked at AURA/Gemini Observatory, relocating to Hawaii from the U.S. mainland in 2005.   Beginning in 2010 Tim managed the Information Technology Services department across the Gemini sites in Hawaii and Chile. A veteran IT professional, with over 25-years of experience in automotive and industrial computer manufacturing, pharmaceutical, and astronomy industries, he is an active, technical manager in services delivery, cybersecurity, and project management.

Tim holds certifications in IT security (Certified Information System Security Professional), project management (PRINCE2 Foundation) and virtualization (VMware Certified Professional). He attended Schoolcraft College, Washtenaw College, Eastern Michigan University, holds a degree in Digital Equipment Technology, and has studied business management & finance as well as mechanical engineering. Tim is currently immersed in the MSc Information Technology Management program at the University of Liverpool.

A long time supporter of the Akamai Workforce Initiative in Hawaii he actively participates with the program's selection committee and as a mentor. Tim is also a member of the University of Hawaii/Hawaii Community College Information Technology Program Advisory Committee, providing curriculum advisement.

Tim and his immediate family make their home in Hilo, Hawaii. In his spare time you might find (or hear) him spinning classic rock on vinyl at his home, or at the local racetrack, where, as the Regional Executive of the Big Island of Hawaii Sports Car Club of America, he and a team of dedicated supporters operate monthly race events.

*

Chris Morrison (CISSP) recently took the position of Information Technology Services department manager for the AURA/Gemini Observatory in Hilo, Hawaii and La Serena, Chile, and has been the Cyber Security liaison for the center for the past seven years. As an IT professional with 24 years experience, Chris has been involved in various aspects of information technology and Cyber Security within the scientific community including system design, identity management, risk assessment, awareness training, incident response, contract and project management. Prior to joining Gemini in 2006, Chris held positions at ESO's VLT project in Chile and the European Space Agency in Germany.

*

Anita Nikolich is Program Director for Cybersecurity in the Division of Advanced Cyberinfrastructure at the National Science Foundation (NSF). Prior to her work at the NSF she served as the Executive Director of Infrastructure at the University of Chicago. Past assignments include Director of Global Data Networking at Aon and Director of Security for Worldcom. She has explored how information technology and secure networking can best support the creation and sharing of scientific knowledge in virtual, mobile and physical contexts. She holds a Master of Science from The University of Pennsylvania and a Bachelor of Arts from the University of Chicago.

*

Irene Qualters is the Division Director of the Division of Advanced Cyberinfrastructure at NSF. As a recognized leader in cyberinfrastructure infrastructure, she represents NSF in several interagency and international efforts that span software, data, and computation.   For example, she has represented NSF in the creation of the presidential initiative, NSCI.

Prior to her NSF career, Irene had a distinguished 30-year career in industry, with a number of executive leadership positions in the technology sector, in startups as well as a long tenure at Cray Research leading R&D, and six years with Merck Research Labs leading their Global Cyberinfrastructure for Research.

*

Susan Ramsey is a Risk Assessor and Security Engineer at the National Center for Atmospheric Research. She has over twenty years of experience building enterprise infrastructure and cloud computing. She joined NCAR in 2014 and promptly launched multiple initiatives to tackle compliance and identity management. Her latest projects include building a FISMA moderate segment and an organization wide Continuous Monitoring Plan. She has an MS in Computer Information Technology from Regis University, (thesis on Vulnerability Assessment). She is currently working towards a second Master of Science degree, in Information Security Engineering, from SANS Technical Institute.

*

Warren Raquel is a Senior Security Engineer at the National Center for Supercomputing Applications. His duties include security operations, incident response and security awareness for NCSA, Blue Waters and XSEDE. He has given talks and taught classes on Digital Forensics and Incident Response, two fields in which has specialized in for the last decade.

*

Scott Russell is the current Postdoctoral Fellow in Information Security Law & Policy at the Indiana University Center for Applied Cybersecurity Research. Scott's work has emphasized private sector cybersecurity best practices, data aggregation and the First and Fourth Amendments, and cybersecurity norms under international law. Scott studied Computer Science and History at the University of Virginia and received his J.D. from the Indiana University, Maurer School of Law.

*

Phil Salkie is a computer scientist who has been working as an industrial controls and automation engineer since 1984. His software and hardware designs serve sectors as diverse as food packaging, broadcast television, emergency power generation, water purification, sewage processing, surgical suture manufacture, biopharmaceuticals, specialty chemicals, laundry transport, semiconductor equipment manufacture, and nuclear power plant infrastructure. He is managing partner of Jeneriah, Industrial Automation.

*

Anurag Shankar is a senior security analyst at Indiana University's Center for Applied Cybersecurity Research (CACR). His expertise includes regulatory compliance (HIPAA and FISMA) and cybersecurity risk management. He has helped numerous institutions tackle HIPAA compliance and been

responsible for developing a NIST based risk management framework and using it to align IU's central research and enterprise cyberinfrastructures with HIPAA. His background also includes nearly twenty years with IU's central IT organization developing, delivering, and managing Unix support, massive data storage, the national Teragrid project, and supporting the research mission of the IU School of Medicine. He played a key role in building IU's research data storage environments, for supporting IU's Indiana Genomics Initiative and other life sciences efforts, and for creating information infrastructures and technology solutions for the Indiana Clinical and Translational Sciences Institute (CTSI). He is a computational astrophysicist by training (Ph.D. University of Illinois, '90).

*

Michael Sinatra has worked for the Energy Sciences Network (ESnet) since 2011, in the capacity of Network and Systems Engineer and Security Strategist. Prior to that, he worked for UC Berkeley for 19 years in both research and administrative positions. He has been interested in the nexus between system, security, and network for two decades. Sinatra holds degrees from Cornell and UC Berkeley.

*

Abe Singer works in the Security Group at the National Energy Research Supercomputer Center (NERSC) at Lawrence Berkeley Laboratory. Until recently, he was the the Chief Security Officer for the Laser Interferometer Gravitational Wave Observatory, operated by the California Institute of Technology. Prior to that he was the CSO of the San Diego Supercomputer Center at U.C. San Diego, and has had past lives as a private sector consultant, programmer, and system administrator.

*

Adam Slagell received an M.S. in computer science from the University of Illinois at Urbana-Campaign in 2003, a masters degree in mathematics from Northern Illinois University (NIU) in 2000, and a B.S. in mathematics from NIU in 1999. He currently serves as the director of the Cybersecurity Division and Chief Information Security Officer at the National Center for Supercomputing Applications (NCSA) where he co-leads the security team for the NSF-funded XSEDE federation, serves as liaison for the Bro Project at the Software Freedom Conservatory, and is a co-PI for the NSF Bro Center of Excellence, which brings its network security monitoring expertise and support to NSF-funded cyber-infrastructure and Higher Ed.

*

Susan Sons serves as a Senior Systems Analyst at Indiana University's Center for Applied Cybersecurity Research, having come from a background in abuse management, software development, and pentesting. In her free time, Susan volunteers as director of the Internet Civil Engineering Institute, a nonprofit dedicated to supporting and securing the common software infrastructure we all depend on, and as a search-and-rescue and disaster relief worker.

*

Amy Starzynski Coddens serves as the Education, Outreach and Training Manager at Indiana University's Center for Applied Cybersecurity Research (CACR). She is a graduate of the IU School of Education (M.S. '06 & M.S. '09). Amy comes to the CACR and CTSC from a background in P-16 education and outreach. She has worked for the government, in industry and in academia, contributing to projects with the New England Research Institute, Harvard's PEAR Institute, the United States Department of Education's Office of Special Education Programs, NASA and the IU Kelley School

of Business.

*

George Strawn had a short industrial career (4 years with IBM), a long academic career (30 years at Iowa State) and a pretty long government career (24 years at NSF). At Iowa State he served terms as chair of the Computer Science department and as director of the Computation Center. At NSF he invented the Internet (well, he was NSFnet program director and then division director of networking), then CISE executive officer and acting assistant director, and then served as CIO. He was detailed to OSTP in 2009 where he served as director of the NITRD NCO until his retirement in July of '15. But he failed retirement and has returned to work at NAS as board director for the Board on Research Data and Information. He has a PhD in mathematics from Iowa State and is a fellow of AAAS.

*

Patrick Storm is a Network Engineer with the Texas Advanced Computing Center at the University of Texas at Austin. Storm received his undergraduate degree from Oklahoma State University in Management Information Systems with an emphasis on Information Assurance. He joined the TACC team in March of 2013 and has spent most of his time there focusing on networking, operational security and incident response. Storm has been a part of the SCinet security team for the SC14, SC15, and SC16 Conferences, and is also a member of the XSEDE incident response and security teams.

*

Dr. Vicraj (Vic) Thomas is a Scientific Directory at BBN Technologies. He leads the Experimenter Support and Advocacy group within the GENI Project Office. The GENI Project Office provides the NSF with program management and systems engineering support in the design and development of GENI. Dr. Thomas' research interests include dependable systems and systems security. On the GENI project, Dr. Thomas was one of the systems engineers that developed a security plan for GENI. In the past he was a co-PI on an intrusion detector correlation project funded by the DARPA CyberPanel program and the PI of a project on the DARPA Cougaar program that developed intrusion detection agents.

*

Steve Tuecke co-leads the Globus project (www.globus.org) with Dr. Ian Foster, and is Deputy Director of the Computation Institute at The University of Chicago (UC) and Argonne National Laboratory. His focus is on the development of sustainable, cloud-based, software-as-a-service data management solutions to accelerate research. Prior to UC, Steven was co-founder, CEO and CTO of Univa Corporation from 2004-2008, providing open source and proprietary software for the high-performance computing and cloud computing markets. Before that, he spent 14 years at Argonne as research staff. Tuecke graduated with a B.A in mathematics and computer science from St. Olaf College.

*

Von Welch is the director of Indiana University's Center for Applied Cybersecurity Research (CACR) and PI for the NSF Cybersecurity Center of Excellence (CTSC). Additionally he is the CISO of the Software Assurance Market Place, a DHS-funded facility to foster software assurance and software assurance research, and serves on the InCommon Steering Committee as an advisor for the research community. Previously he has worked with a range of high-visibility projects to provide cybersecurity

to the broader scientific and engineering community, including TeraGrid, Open Science Grid, Ocean Observatory Infrastructure, and GENI. His work in software and standards includes authoring two IETF RFCS and the contributing to the creation of the well-known CILogon and MyProxy projects.

*

Dr. Carol Wilkinson is a visitor to NSF from the California Institute of Technology, providing support to the Large Facilities Office (LFO) on issues regarding the management of large scientific facilities. Her major roles while at NSF include being the LFO liaison to various facilities under construction, assisting with revisions of the Large Facilities Manual, and acting as the LFO liaison for Cyber Infrastructure. Her background includes research in experimental particle physics and experience in the operation and construction of large scientific facilities. She has formal training in facility and project management from the Project Management Institute (PMI) and other institutions. She earned certification in project management from the Stanford Advanced Project Management Institute.

Dr. Wilkinson gained familiarity with NSF construction projects funded through Major Research Equipment and Facility Construction (MREFC) accounts by serving for ten years as the project manager for the Advanced LIGO (Laser Interferometer Gravitational-Wave Observatory) development and construction. She also served on NSF construction project review panels for DUSEL, ALMA, OOI, NEON, and LSST. Previously, Dr. Wilkinson served as group leader and project manager for the construction and operation of two DOE funded accelerator facilities (DARHT) at Los Alamos National Laboratory before becoming project manager for the nuclear weapons testing program at DARHT before joining LIGO in 2003. She joined NSF on an Intergovernmental Personnel Act (IPA) assignment in November 2013.

*