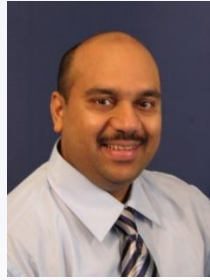


# Welcome to the 1<sup>st</sup> CIACAM

The Vision behind the 1<sup>st</sup> Professional ACM Chapter  
in Minnesota and Upper Midwest

Message by Dr. Firasat Khan, Twin Cities ACM Chapter and CIACAM Chair



The Twin Cities ACM Professional Chapter has been fortunate to partner with the UMN Technological Leadership Institute and ACM-W Chapter to make the first Colloquium on Information Assurance, Cybersecurity, and Management a reality. This new educator and practitioner-engagement avenue is foreseen as an annual gathering showcasing original research and demonstrations in related disciplines.

This 1st CIACAM has a rich program of four industry/educator panels on academic/workforce issues, enterprise security management, safeguarding communities, and risk management and audit/legal compliance. The illustrious panelists promise to engage in deep and probing discussions on wide-ranging issues. During the afternoon we have assembled thirteen original presentation on works in the themes of academia, cybersecurity and information assurance, and management of technology and security, and general computing topics.

We hope to sustain and grow CIACAM with your continued participation in the coming years, focusing on three objectives:

- Engage more ACM chapters and other peer associations like IEEE and AIS.
- Solicit a larger set of original works by students, faculty and professionals.
- Strengthen the collaboration between academia and industry.

Enjoy the networking opportunity. Thank you for making CIACAM a success with your participation.

## The CIACAM Host Committee

Dr. Firasat Khan, Metropolitan State University (Chair, CIACAM 2019)  
Director Mike Johnson, UMN Technological Leadership Institute (Co-Chair)  
President Hannah Brand, UMN ACM-W Chapter (Co-Chair)

## The CIACAM Planning Council

Dr. Jim Chen, St. Cloud State University of Minnesota  
Steve Creason, J.D., Metropolitan State University (Legal Compliance Lead)  
Mr. John Hoffoss, Metropolitan State University, Mankato (Risk Management Lead)  
Dr. Michael Hart, Minnesota State University Mankato (Academic Issues Lead)  
Dr. Faisal Kaleem, Metropolitan State University (Cybersecurity Lead)  
Mr. Mike Kearns, US Bank and Metropolitan State University (Enterprise Security Lead)  
Dr. Sarah Kruse, Minnesota State University Mankato  
Dr. Mark Schmidt, St. Cloud State University  
Mr. Ted Wallerstedt, US Bank and Metropolitan State University (Audit Lead)

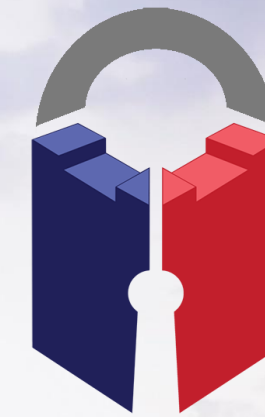
## ACM Minneapolis Professional Chapter

Dr. Firasat Khan, Chair, Metropolitan State University  
Dr. Rajeev Bukralia, Vice Chair, Minnesota State University, Mankato  
Dr. Yohannes Tadesse, Treasurer, Metropolitan State University

## CIACAM 2019 Schedule

### Coffman Memorial Union, Mississippi Room

- 8:00 – 8:45** Check-in and Breakfast  
**8:45 – 9:00** Welcome by Director Mike Johnson, UMN Technological Leadership Institute, and Hannah Brandt, President UMN ACM-W Chapter  
Introduction by Dr. Firasat Khan, Chair, CIACAM Council & Twin Cities ACM
- 9:00 – 9:50** **ACM Distinguished Keynote by Dr. Chuck Easttom**  
**10:00 – 10:50** **Academic Issues & Workforce Development Panel**  
**11:00 – 11:50** **Enterprise Security Management Panel**  
**11:50 – 12:40** Lunch in Mississippi Room  
**12:45 – 1:30** **Safeguarding Communities Across America Panel**  
**1:40 – 3:40** **Rooms 323/24/25: Breakouts for Presentations in three tracks (see below)**
- Room 323: Education & General Computing**  
**1:40:** *At the convergence of industry and academe: The Map & Gap project to Design Industry-Responsive Curriculum* (David Bahn, Firasat Khan, Simon Jin, Steve Creason)  
**2:10:** *Enhancing Cybersecurity and Forensics Education through Augmented Reality* (Faisal Kaleem)  
**2:40:** *Unchain the Block: Enabling managed, secure and trusted disruption* (Anju Nagpal, Devansh Garg, Firasat Khan and Megane Bonny)  
**3:10:** *Inter-service Communication Optimization of eLearning Application Designed Based on Microservices Architecture with the Implementation of Java EE and ASP.NET Core Frameworks* (Abiso Lambebo, Michael Hart)
- Room 324: Cybersecurity**  
**1:40:** *Miniprint - A medium interaction printer honeypot* (Dan Salmon)  
**2:05:** *How to phish 400 users on a major university campus and get away with it* (Marco Diaz, Dustin Nelson)  
**2:30:** *A Study on Improving Linux-Based Malware Detection Through Comparative Machine Learning Classifiers* (Ralph Julsaint, Michael Hart)  
**2:55:** *Cybersecurity Maturity Model for Smart Connected Buildings and A Roadmap to Secure Smart Cities* (Mangaya Sivagnanam)  
**3:20:** *The Impact of Users' Forced Compliance with Personal Information Provision on Perceived Betrayal in Privacy Breach* (Simon Jin, Firasat Khan)
- Room 325: Management & Information Assurance**  
**1:40:** *Your Private Information as the Currency for the Social Network Services* (Simon Jin)  
**2:10:** *Can a mashup of FinTech, blockchain, and M-Pesa mitigate corruption in Sub Saharan Africa?* (Erik Westgard, Firasat Khan, Sammy Marwa, Justus Ogeto)  
**2:40:** *Warning Signs and Red Flags: An in-depth look into Occupational Fraud as a means for Prevention, Deterrence and Detection* (Demond Daniels)  
**3:10:** *Effective Security Strategies for a Small Energy Plant* (Farid Shallal, Faisal Kaleem)
- 3:50 – 4:30** **Risk Management/Audit/Legal Compliance Panel**  
**4:30** **Closing, Door Prizes! Be present to win.**



Colloquium on  
Information  
Assurance,  
Cybersecurity  
and Management

# CIACAM 2019

May 24, 2019

Hosted by

TWIN  
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TECHNOLOGICAL  
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## Enterprise Security Management Panel

**Harshal Mehta** (CISO, CarlsonWagonlit)

Harshal is a seasoned information security leader with more than a decade of experience spread across Risk Management, Security Governance, Compliance Management, Payment Security and Security Office. He has held various consulting and leadership roles across the globe delivering high value security consulting projects. Harshal is currently Chief Information Security Officer at Carlson Wagonlit where he is responsible globally for information security program interfacing with business and stakeholders for aligning security with the business objectives and delivering a sustainable and secure environment. Before CWT, he held consulting roles in KPMG, Verizon and Wipro Consulting Services. Harshal holds a Bachelor's degree in Information Technology with specialization in Information Security along with various information security credentials like CISSP, CISA and CISM.

**John Valente** (CISO, 3M)

John Valente serves as the chief information security officer at 3M. He has a degree in mechanical engineering from Fairfield University in Fairfield, CT. After a long career at Citibank, Pepsi, Dell, and Best Buy, John joined 3M in 2014. John's career focused mainly on IT infrastructure, architecture and management. He has experience in building & managing large global organizations and has focused on information security, risk and compliance for over a decade. He serves on several security executive advisory boards.

**Moderator Mike Kearn** (US Bank)

Mike serves as the VP, Security Risk & Technology Consulting at US Bancorp. A seasoned senior leader responsible for proactively managing risk as it pertains to reputation, regulatory, and overall operational risk. Areas of specific expertise are application security, access control architecture, social engineering and business continuity planning. He has been a featured panelist at events such as the CIO Finance Summit, CSD Magazine events, SC Magazine and the Minneapolis CISO Executive Summit. He is an active member of the Minneapolis chapter of InfraGard and former Chairman for the group's Intelligence Committee.

## Management/Audit/Legal Compliance Panel

**Steve Creason, J.D.** (Metropolitan State University)

Steven Creason is the Department Chair in MIS and an attorney and professional consultant in information technology. He has consulted with companies such as Allianz, CarlsonWagonLit, Blue Cross, and Fairview. He has extensive experience in technical controls, PCI, data privacy and security, and compliance matters. He also has knowledge in HIPAA, SOX, GLB, FINRA, and SEC data compliance issues. Prior to becoming an independent consultant, Creason was a technical architect at Accenture working in the utilities and telecommunications practice groups. Creason teaches courses in Management Information Systems and in the Cybersecurity and Privacy Law Certificate Program at Mitchell Hamline School of Law.

**John Benninghoff** (Information Risk Officer Software Engineering, Express Scripts)

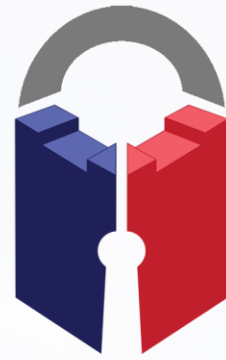
John Benninghoff is a long-time student and practitioner of managing information risk. He currently leads the Application Security practice at Express Scripts, integrating security into the company's emerging DevOps practice through better quality engineering. His 20-year career in Information Security includes diverse experience in financial services, retail, and government: building a Network IDS and later a vulnerability management platform using open source software, security incident response, identity and access management, policy & standards, security architecture, and many compliance initiatives. He is currently pursuing a Masters of Science in Managing Risk and Systems Change at Trinity College Dublin, with the goal of adapting proven systems safety risk management methodologies to information technology, and improving reliability outcomes in what has become a safety-critical industry.

**Moderator John Hofoss** (CISO, MSU Mankato)

John Hoffoss is an IT security leader able to interact with all levels within an organization. John has over a decade of security CISSP, GCIH, FAIR, majoring in Computer Science from the University of Minnesota. He is a longstanding leader in the Society of Information Analysts.

**Moderator Ted Wallerstedt** (US Bank)

Ted brings a high-level of specialized knowledge and expertise and industry experience related to Information Technology and IT Security. Prior to joining the audit department at U.S. Bank, Ted was an auditor at the University of Minnesota and TCF Bank. Ted also holds Adjunct Faculty positions at Metropolitan State University and Saint Thomas University. Taking into account his background in the military, physical security, and Information Technology, Ted brings to the table over 30 years of experience providing physical and logical security protection and assurance for personnel, physical assets, and information. Ted is a Past President of both MN-ISACA and the Upper Midwest Security Alliance.



## Colloquium on Information Assurance, Cybersecurity and Management

### CIACAM 2019

## Academic Issues & Workforce Development Panel

**Dr. Kyle Swanson** (Dean, College of Sciences, Metropolitan State University)

Dr. Kyle Swanson, is the Dean of the College of Sciences at Metropolitan State University. Prior to joining Metropolitan State, he held the positions of Professor, Department Chair and Associate Dean in the College of Letters and Science at the University of Wisconsin-Milwaukee. He is the author or coauthor of over 40 peer-reviewed scientific articles, appearing in such journals as Science, Proceedings of the National Academy of Sciences and Physical Review Letters. He has given over 50 interviews and talks, including presentations at MIT, University of Illinois, University of Wisconsin, and the California Institute of Technology. At UW-Milwaukee, he was instrumental in the implementation of remedial mathematics reform at institutional scale, as well as integrating early college career experiences for STEM majors. For these and other activities, he was awarded the UW-Milwaukee Distinguished Faculty University Service Award in 2016.

**Steve Hawkins** (VP, Clango)

Steve Hawkins is one of the founders of Integral Solutions, Now Clango. He has over 20 years of IT experience and graduated with his Masters of Science in Security Technologies (MSST) from the University of Minnesota in 2011. Steve has managed large identity and access management projects and policy based fraud management efforts. He often leads the requirements gathering, design, and architecture efforts for enterprise Identity and Access management projects. He also is one of the core team of trainers for the DAAM product suite. Steve teaches Cybersecurity Foundations at the UofM for the Technological Leadership Institute MSST graduate program.

**Michael Menne** (CISO, MSU Mankato)

Michael Menne has been working with technology professionally for over 25 years across multiple industries. The last 10 years of his career have been with Minnesota State University Mankato, with the last 4 as Chief Information Security Officer. His experience has exposed him to companies of all sizes, from the very small to the very large. These experiences have given him a unique perspective on cybersecurity in higher education. He enjoys the variety in his role as CISO. Some days are strategically focused while others are much more technically focused. Often times, he is teaching interns about cybersecurity from a real world perspective.

**Moderator Dr. Michael Hart** (MSU Mankato)

Michael Hart is an Assistant Professor in the Computer Information Science Department at Minnesota State University, Mankato. He has a passion for information security education and currently serves as the faculty adviser for the university's student security organization. Michael served in executive level IT positions for over a decade prior to his focus on teaching at MNSU.

**Moderator Mike Johnson** (Director, UMN Technological Leadership Institute)

Mike Johnson serves as the director of graduate studies for the Master of Science in Security Technologies degree program at TLI. He also develops, teaches and administers graduate level courses in security technologies innovation, management and leadership, as well as participates in the development and delivery of customized short courses and professional development programs in response to industry needs. He brings more than 25 years of professional experience in security risk management, formerly serving as CISO and Operations Risk Director at Bremer Bank, and has gained broad skills in the areas of IT and information security risk management in a heavily regulated industry.

## ACM Distinguished Keynote Quantum Computing & Lattice Based Cryptography



**Dr. Chuck Easttom**

Chuck Easttom is the author of 25 computer science books several of which are used as textbooks at over 60 universities. He is also the author of numerous papers. He is an inventor with 13 patented computer science related inventions. He has over 25 years of industry experience. He has been a speaker around the world at many major industry conferences (Defcon, ISC2, Secure Jordan, IAFLS - Cairo, AAFS, Secure World, Hakon India, etc.). He conducts training and consults with private companies and governmental agencies around the world in cyber security related topics including cryptography, digital forensics, and penetration testing. His background combines academic training, scientific research, and hands on industry experience. He has been a member of the ACM since 2014 and has spoken at multiple ACM chapters.

## Safeguarding Communities Panel

**Col. Stephanie Horvath** (CBTO, Minnesota Boards, Councils, and Commissions, & ePMO)

Stefanie Horvath is a Chief Business Technology Officer for Minnesota Information Technology (MNIT) responsible for establishing Information Technology services and capabilities to Minnesota Boards and Commissions. She also oversees the Enterprise Program Management Office (ePMO), defining IT Project Management policies and standards for Executive Branch agencies. Prior to this position, Stefanie was the J6 IT Director for the MN Army National Guard, serving as the principal officer for all classified and unclassified networks and network services used by 10,000 soldiers over 75 sites in the State of Minnesota from 2012-2018. Stefanie is a combat veteran of Operation Iraqi Freedom; she received a Bronze Star for her service there as the lead signal officer responsible for unclassified and classified network operations covering nine southern Provinces of Iraq from 2009-10. Stefanie holds a Master's of Strategic Studies from the US Army War College and is ICS2 CISSP certified. She is a current Advisory Board member for the Minneapolis Cyber Security Summit and previously co-chaired the 2018 Summit. She is also a current member of ISC2 and ISACA.

**Jim Nash** (FRSecure)

Jim has been a public speaker for more than 25 years in various roles speaking to groups of all sizes. He has worked in the IT world for the last 10 years and is a passionate advocate for information security in his role as a citizen legislator in the Minnesota House of Representatives. Jim is currently working for FRSecure as a Chief Story Teller. Prior to joining FRSecure, Jim was a partner in a fast growing IT storage analyst firm. Jim spent 10 years working with customers and channel partners to understand clients' needs and create unique solutions to address them. Jim began his passionate journey on Information Security in conjunction with his work in his company and in state and local government. Jim infuses humor and irreverence into his presentations and makes his audience feel that they are able to ask any questions and effect change in their organization.

**Moderator Faisal Kaleem** (Metropolitan State University)

Dr. Kaleem is an experienced lifelong cybersecurity practitioner. His current research work is to identify key characteristics of cyber security learners through the use of Augmented Reality (AR) in addition to identifying AR's privacy issues. His other research interests include multiple aspects of cybersecurity including cybersecurity and forensic curriculum development, Computer and Network Security, mobile device security and forensics, and mobile malware analysis and attribution. He is the recipient of many grants from the National Science Foundation (NSF), National Security Agency (NSA) and Intel Corporations, as well as grants from the state of Minnesota. Dr. Kaleem has also established MN Cyber—a statewide institute for Cybersecurity and forensics research and education. He is currently serving as the Executive Director of MN Cyber. He is also the co-founder and executive member of Minnesota Cyber Career Consortium (MNC3) whose mission is to address Minnesota's cybersecurity workforce needs and to help assist Minnesota businesses in handling cyber risks.