



The MMS Scope

Minnesota Microscopy Society

Local affiliate of the **Microscopy Society of America**
and the **Microanalysis Society**

february 2016

In this Issue:

MinnTS:

Be part of the of 14th annual Minnesota Technical Symposium, happening this year at the 3M Innovation Center.

Up ahead:

Spring Symposium on April 29. Five featured speakers are booked.

Looking back:

Photo memories from the BCA tour earlier this month.

2016 MMS dues:

Please remember to submit your annual dues to maintain your MMS membership.



14th Annual MinnTS

(Minnesota Technical Symposium)

www.minnts.org

Tuesday, March 15

THE INTERNET OF THINGS / CYBERSECURITY



Stefan Lindvall

CEO, Multi-Tech Systems



Noah Korba

Senior Manager, Network Security, General Mills



SCHEDULE on MAR 15

- | | |
|----------------|---|
| 4:00 p.m. | 3m Innovation Center tour 1 |
| 5:00 p.m. | 3m Innovation Center tour 2 |
| 5:00-6:00 p.m. | Registration, social with refreshments |
| 6:00-7:00 p.m. | Dinner (followed by move into auditorium) |
| 7:00-7:15 p.m. | Welcome message, introductions (Gary Korba) |
| 7:15-8:00 p.m. | Stefan Lindvall - <i>The Internet of Things</i> |
| 8:15-9:00 p.m. | Noah Korba - <i>Recent Trends in the Cybersecurity Threat Landscape</i> |



LOCATION

3M Company
Maplewood, MN
Innovation Center
(building 278) [map it](#)



2350 Minnehaha Ave. E. | 55144



RESERVATIONS

Cost: \$30

Deadline: Wednesday, Mar. 8, 11:59pm

Reservations may be made via PayPal by going to the MinnTS website at www.MinnTS.org. Use the [MMS reservation link](#).

No refunds for cancellations after March 8.

MinnTS | 14th Annual Meeting

continued



SPEAKER BIOS

Stefan Lindvall brings more than 20 years of high-level experience in the wireless industry to MultiTech. In the last five years at Connected Development, a MultiTech subsidiary, Lindvall has created one of the leading wireless design services companies in the U.S. Prior to Connected Development, Stefan served as President of the Americas at Wavecom, and before that held various leadership positions at Sony-Ericsson and Ericsson including, Vice President m2m Sales, Americas. Stefan received his MSc in Industrial Engineering and Management from the Institute of Technology at the University of Linkoping, Sweden.



Lindvall

Noah Korba has more than ten years of experience in the cybersecurity arena. As a Senior Manager at General Mills, he leads the global IT Security Infrastructure, Forensics and Incident Response teams. Noah is responsible for protecting +113 sites and 43,000 employees from cyber attacks, including securing manufacturing technologies in +48 locations worldwide. Prior to General Mills, he worked for Pricewaterhouse-Coopers as an IT Security Advisor for *Fortune* 500 clients, leading multiple cybersecurity assessments globally, including work in the UK, Western Europe, China, Canada and Mexico. Noah began his career at Iowa State University, focusing on computer crime investigation. He holds a bachelor's and master's in computer engineering from ISU.



Korba



ABSTRACTS

Lindvall: What exactly is the "Internet of Things" (IoT), and what impact is it going to have on you and your organization? It's a growing topic of conversation that not only has the potential to impact how we live but also how we work. IoT is growing at an astronomical rate and is getting bigger every day. To prepare for IoT, companies in all sectors must build a connected device strategy that makes sense—from both a financial and logistical stand-point—if they want to capitalize on the enormous opportunity IoT offers. This presentation will discuss business models around the IoT applied to specific industries, and explore the technologies available and device strategies to connect your "things" to the Internet.

Korba: Cybersecurity touches all aspects of our lives, from personal banking to national defense. Impacts from recent attacks are far reaching—from the exposure of social security numbers, health records and credit card numbers to intellectual property and national defense secrets. It has even permeated modern warfare—in 2014 alone, the US government spent \$31B in cyber defense platforms and services, designed to defend against cyber attacks. This talk will cover recent trends in cybersecurity, including who the attackers are, what they are after and how they monetize their spoils. Noah will draw from his experience as an ethical hacker to provide examples of how recent cyber attacks have played against corporations and government entities. He will also provide common ways for MinnTS attendees to protect themselves from these threats both personally and professionally.



CALENDAR of EVENTS

29 APR 2016

MMS Spring Symposium
Minnesota Science Museum
120 W. Kellogg Blvd.
St. Paul, Minn.



Featured speakers:

Jeff Jansen, Senior Managing Engineer, The Madison Group
Failure Analysis of Plastics

Tammy Lai, Lead Metallurgist, Ecolab/Nalco
Failure Analysis of Metals

Jake Popp, Principal Materials Engineer, Medtronic plc
Failure Analysis of Medical Devices: Process and Impact

Katie Igowsky, Forensic Scientist, Minnesota BCA
The Role of Microscopy in Solving Crimes

Scott Walck, Senior Scientist, Army Research Laboratory
Designed Failure



DON'T FORGET!



Please remember to pay your 2016 MMS membership dues.



PHOTO ALBUM

Enjoy these photo memories from the February 2016 tour of the **Minnesota Bureau of Criminal Apprehension**.





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