

Monday, May 6, 2019

Session I: 10:30 AM - 12:00 PM

New Technologies

Presenter: Mark Cheramie Walz, Attorney; Sweet, Stevens, Katz & Williams LLP

Audience Level: Novice

Audience Knowledge: No prior experience on this topic is needed

Room 101

Attorney Mark Cheramie Walz looks forward to sharing new and emerging technologies in education and the relevant laws and regulations surrounding those technologies including facial recognition, artificial intelligence, bots, drones, radio frequency ID tags, and emerging social networks.

Linux/Unix Basics – Learning to Embrace the Command Line

Presenter: Roy Hoover, Network and Telecommunications Coordinator; Lancaster-Lebanon IU13

Audience Level: Novice

Audience Knowledge: No prior experience on this topic is needed

Room 102

Learn about the Linux/Unix operating system, file structure, commands, files, and other internals in order to be comfortable with systems running a Linux/Unix variant. Many embedded systems run a Unix like system. There is no need to be afraid of the command line; it is actually quite useful! This session is designed to give you enough information about Unix to feel comfortable navigating a Unix-like system. We will also explore some *nix command line tools that you can run on your computer to perform useful tasks related to manipulating data.

Becoming a 21st Century Technology Director

Presenter: Dr. Chris Harrington, Founder; Institute for Teaching and Leading and Kent Sweigart, Director of Technology; Cocalico School District

Audience Level: Intermediate

Audience Knowledge: No prior experience on this topic is needed

Room 103

As K-12 classrooms across the nation continue to shift to become technology-rich learning environments, the required skill set of technology leaders is also shifting. Today's technology leaders must become the champions of change in the face of increasingly complex school systems. This interactive discussion with participants will focus on the new role that technology leaders must play in their schools and the new skills that must be fostered to develop, implement, and maintain highly effective, technology-rich learning environments. Participants in this session will learn the unique new skills required of 21st century school technology leaders.

Cyber Threats and Federally Funded Resources that Help

Presenter: Eugene Kipniss, Sr., Program Specialist; Multi-State Information Sharing and Analysis Center

Audience Level: Novice

Audience Knowledge: Ideally, audience members should be familiar with K-12 schools' IT needs and operations.

Room 104

Cybersecurity threats from malware or social engineering and fraud are constantly hitting our nation's education organizations. We will explore some of the notable threats and trends observed by the Multi-State Information Sharing and Analysis Center (MS-ISAC), which is the DHS designated focal point for State, Local, Tribal, and Territorial government cybersecurity. K-12 districts, Intermediate Units, and public universities all can take advantage of federally funded cybersecurity resources direct from DHS and the MS-ISAC that assist with facing or responding to these threats.

How to Conduct an Information Security Risk Assessment

Presenter: Matthew Frederickson, Director of Information Technology; Council

Rock School District

Audience Level: Novice

Audience Knowledge: No prior experience on this topic is needed

Room 106 D

How does an organization conduct their own information security risk assessment? In this presentation the following will be covered: why an assessment is needed and the steps to prepare for, conduct, and report it.

Streamlining a Business Process using PowerApps and Flow

Presenter: Margie Morales, Applications Developer; Lancaster-Lebanon IU13

Audience Level: Intermediate

Audience Knowledge: Some familiarity with the structure of SharePoint lists and libraries may be helpful. Someone without those experiences may still want to attend if they are interested in seeing a demo of a business solution that can be created using Microsoft PowerApps, Flow, and SharePoint online.

Room: 106 E

Would you like to learn how to create an online policy and procedure acknowledgement solution? In this session, we will look at a paperless staff acknowledgement process that was originally built in SharePoint designer then recreated using PowerApps and Flow. While no paper is actually used in this process, the end result will be a document with a person's acknowledgement entries saved in a SharePoint document library that can be printed and added to a staff member's personnel file if desired.

Hyperconverged Infrastructure Lessons Learned

Presenter: Brian Steigauf, Program Director; Lancaster-Lebanon IU13

Audience Level: Intermediate

Audience Knowledge: No prior experience on this topic is needed

Room 108

IU13 moved to a hyperconverged infrastructure (HCI) two years ago utilizing both

VMware vSAN and Microsoft Storage Spaces Direct (S2D). If you are thinking about implementing an HCI infrastructure, come and learn about some of the pitfalls and lessons learned.

IPv6 Training

Presenter: Dr. John Pickard, Assistant Professor, Department of Technology Systems; East Carolina University

Audience Level: Expert

Audience Knowledge: Basic Networking

Room 110

This two-day, instructor-led, hands-on, lab-heavy training class is ideally suited for network and systems engineers of all skill and experience levels. It covers the fundamentals of IPv6 and its similarities and differences with respect to IPv4. Also covered in the course are the mechanisms developed to facilitate transition, how IPv6 is accommodated in supporting technologies, such as routing protocols, DHCP and DNS, and multicasting, as well as security.

Hands on labs are conducted on remotely hosted, actual networking equipment.

This course is certified "Gold" by the IPv6 Forum Education Logo Program. The course will be delivered by a "Gold" certified IPv6 Engineer and "Gold" certified IPv6 Instructor.

Upon completion of this course and successfully passing the certification exam, participants may take the examination to achieve the Silver Certified Engineer certification.

Fighting Cybercrime with Self-Healing Machines

Presenter: Antonio Guerrero, Certified Ethical Hacker; HP, Inc.

Audience Level: Intermediate

Audience Knowledge: No prior experience on this topic is needed

Room 111

Taught by an "ethical hacker" learn how HP's full security stack from PCs to Printers and Copiers is keeping Cyber-Crime at bay.

"We need to move from designing machines with simple protection mechanisms to designing devices with 'cyber-resilience' right from the beginning of the hardware and firmware design. This means building machines that can autonomously fight off a growing family of debilitating hardware and firmware attacks. It means engineering in new security architecture constructs for resilience at the device design level. We won't be able to bolt it on after the fact."

---Boris Balacheff, Chief Technologist for Security Research and Innovation at HP

Session II: 1:00 PM – 2:30 PM

Updating Your Policies/Work Session

Presenter: Mark Walz, Attorney; Sweet, Stevens, Katz & Williams LLP

Audience Level: Novice

Audience Knowledge: No prior experience on this topic is needed

Room 101

Attorney Mark Cheramie Walz reviews the essential elements for key technology policies including Acceptable Use, Mobile Device (for both Students and Employees), Livestreaming, Social Media, and Record Retention.

Windows 10 Deployment Explained

Presenter: Dan Lezoche, IT Manager; Bucks County IU22

Audience Level: Novice

Audience Knowledge: No prior experience on this topic is needed

Room 102

This presentation will discuss the process for building a successful Windows 10 deployment for your organization. Base image creation, desktop customization,

application automation, security, and many other topics will be covered and demonstrated using both Microsoft Deployment Toolkit (MDT) and System Center Configuration Manager (SCCM).

Growing Leadership and Influence

Presenter: Dr. Brian Barnhart, Executive Director; Lancaster-Lebanon IU13

Audience Level: All

Audience Knowledge: No prior experience on this topic is needed

Room 103

Regardless of your current position title, each of us is on a journey to grow and lead. What does it take to be a leader? Are you good at what you do? Are you great at who you are? Participants in this 'leadership' presentation will gain insight in ways to 'grow your influence' through a review of 5 Levels of Leadership and an in-depth look at three important qualities of all successful leaders: authenticity, discipline, and integrity; and how they apply in real life.

Geeking Out: PowerShell In Action

Presenter: Shawn Mellinger, Senior System Administrator; Lancaster-Lebanon IU13

Audience Level: Intermediate

Audience Knowledge: No prior experience on this topic is needed

Room 104

This is a hands on PowerShell session focused around writing usable code. We will start out with some introductory commands and build off those commands into more complex scripts. We will focus on automation and throw in some fun content like bots. Please bring a laptop, as code will be provided, which you can run and test as we go along.

Basics of Networking - An Introduction to Network Design and Troubleshooting

Presenter: Mike Williams, Network Engineer; Lancaster-Lebanon IU13 and Dan

Baker, Network and Systems Administrator; Lancaster Mennonite School

Audience Level: Novice

Audience Knowledge: Basic familiarity with networking concepts and equipment including network cables, MAC addresses, switches, IP addresses, and routers

Room 108

The first half of this session will cover basic principles to follow when building an enterprise class LAN in your school, whether building from scratch, or bringing an older network up to modern standards. Throughout the session the OSI model will be referenced to show the relationship between different aspects of the network, including cabling standards, wireless fundamentals, switching, and routing. Basics of equipment selection, installation, and configuration will be addressed. The second half will address basics of network troubleshooting. Again, we will follow the OSI model to present a series of steps that can be used in determining the cause of common network problems. We will also address several commonly user-reported symptoms, along with prioritized things to check to speed troubleshooting.

IPv6 Training-Continued

Presenter: Dr. John Pickard, Assistant Professor, Department of Technology Systems; East Carolina University

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Introduction to SQL

Presenter: Nathan Byler, Director of Technology; Annville-Cleona School District

Audience Level: Novice

Audience Knowledge: Access to PowerSchool preferred, but not required.

Access to PowerSchool test server preferred, but not required. Ability to install software, such as a SQL editor on one's own machine

Room 111

SQL, or Structured Query Language, is the backbone of any modern database. While SQL does vary from vendor to vendor, the basics of writing statements is the same. In this workshop participants will be introduced to SQL, SQL Editors, major database vendors, and begin writing statements to mine data from a database. While the database used in the presentation will be PowerSchool, the concepts can be applied to any database. If participants do not use PowerSchool, access to a test server will be provided so that the user can participate in the workshop. The knowledge of SQL has revolutionized how data is managed within the Annville-Cleona School District. It has opened up many different doors to allow the replacement of manual processes with automated ones, as well as provide the opportunity to integrate into different applications. Examples will include automating student account creation (this involves knowledge of PowerShell), providing detailed CSV dumps for vendors that extend beyond what PowerSchool can natively do, and finding/fixing errors that affect PIMS (State Reporting).

Session III: 3:00 PM – 4:00 PM

Updating Your Policies/Work Session - Continued

Presenter: Mark Walz, Attorney; Sweet, Stevens, Katz & Williams LLP

Audience Level: Novice**Audience Knowledge: No prior experience on this topic is needed****Room 101**

This session is a work session devoted to review and revision of your policies. Attorney Mark Cheramie Walz will be available to review and discuss revisions of your individual policies related to education technology including acceptable use, social media, and record retention.

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Audience Level: Expert

Audience Knowledge: Basic Networking

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Tuesday, May 7, 2019

Session I: 9:00 AM - 10:00 AM

Let's Talk MDM

Presenter: Andrew Sanders, Director of Technology; Yough School District

Audience Level: Intermediate

Audience Knowledge: No prior experience on this topic is needed

Room: 101

There are a variety of Mobile Device Management (MDM) systems out there. Are you truly happy with your MDM? Have you ever wondered what another MDM might do for you? Then come and listen to the comparison of three different MDM solutions.

No, It Is Not Always Network's Fault

Presenter: Roy Hoover, Network and Telecommunications Coordinator; Lancaster-Lebanon IU13 and Dr. Ciprian Popoviciu, Founder/CEO; Nephos6

Audience Level: All

Audience Knowledge: No special skills or experience is needed for this session

Room: 102

Anyone who has managed a network or an IT environment knows that any problem experienced by users is automatically blamed on the network. This is the reason network engineers are such great troubleshooters; they are always guilty until they can prove themselves innocent. This burden is in part due to the fact that despite all the tools used to monitor networks, many issues experienced by users go unnoticed by the network team. Clearly, our traditional ways of monitoring IT infrastructures do not provide us the full and complete picture of end user experience. In this session we will show the value of changing the network management paradigm on its head by focusing on measuring, monitoring, and troubleshooting User Experience (UX). We will share historical and live data demonstrating the concept in a real network. We will show that by tracking UX, IT

professionals can proactively identify issue before users do, and narrow down the fault domain faster. Moreover, with the UX data at hand, it is easier for everyone to see and understand that, “No, it is not always network's fault.”

The CLI (Command Line Interface), Ohh My!

Presenter: Todd Echterling, Campus IT Security Specialist/Systems Administrator; Millersville University

Audience Level: Novice

Audience Knowledge: No prior experience on this topic is needed

Room: 103

In this session we will take a look at the command line interface for some of today's modern operating systems. We will primarily look at the Unix-based command lines as seen in Linux and macOS. We will look at some basic commands that can make the life of a systems administrator a lot easier. We will look at Bash scripting and touch on Python and Pearl commands. Scripting for your MDM platform will also be discussed. This session is geared toward the novice to intermediate systems administrators. A laptop is highly recommended for this session.

Windows Autopilot Transition

Presenter: Dave Light, Systems Administrator; Lancaster-Lebanon IU13

Audience Level: Intermediate

Audience Knowledge: No prior experience on this topic is needed

Room: 104

The windows Autopilot Deployment program allows you to automatically join devices to Azure AD and automatically enroll them in to Intune out of the box. Learn how IU13 transitioned a subset of computers to Azure AD through the Autopilot program. This will cover migrating computers joined to our local Active Directory and managed with SCCM to computers joined to Azure AD and managed with Intune. We will also look at auto deployment with newly purchased computers that are pre-published to our Intune environment.

Protect Your District from Disaster with Azure Backup and Site Recovery Overview

Presenter: Thomas Grimm, Partner and EVP; BT Pros

Audience Level: Novice

Audience Knowledge: No special skills or experience is needed for this session

Room: 108

In this session, we will explore the different workloads that can be protected with off-site backup to the Azure cloud, such as virtual machines running on VMWare or Hyper-V and even physical servers. We will also look at protecting cloud-based resources, such as VMs and file shares. Additionally, we will look at various options for on-premises infrastructure and Azure Site Recovery where you can orchestrate a complete failover to a secondary location or direction to Azure.

IPv6 Training (Day 2)

Presenter: Dr. John Pickard, Assistant Professor, Department of Technology Systems; East Carolina University

Audience Level: Expert

Audience Knowledge: Basic Networking

Room 110

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Demo Session 9:00 AM – 9:30 AM

Meraki Innovations: MV, MI, and Meraki as a Sensor

Presenter: Matthew Schaner; Cisco Meraki

Room: 111

Six years after acquisition, Meraki continues to innovate with new products and features. Come learn about Meraki's newest video surveillance enhancements, network assurance platforms like Insight and Wireless Health, and much more.

Demo Session 9:30 AM – 10:00 AM

Keeping Students Safe: How to Effectively Filter, Manage, Monitor, and Protect Student Devices

Presenter: Michael Bogess and Sam Benham, Lightspeed Systems

Room: 111

Web filtering in today's schools is about more than blocking and allowing web sites; it's also about keeping students safe from inappropriate content as well as self-harm, bullying, and violence. Join Lightspeed Systems for a must-attend session on how schools are solving these critical challenges while saving their IT teams' time and money.

You'll learn how to: get detailed, granular reports on student web activity; decrypt and report on SSL traffic without the hassles of proxies, PAC files, or trust certs; get AI-based insights and real-time alerts on suspicious student activity; provide safe access to YouTube and other difficult-to-filter sites; remotely set policies to every device and OS; and more!

Session II: 10:30 AM – 11:30 AM

How Your Structured Cabling System Can Cause Network Performance Issues

Presenter: Stephen Tucci, DataComm Specialist; Schaedler Yesco Distribution, Inc.

Audience Level: Novice

Audience Knowledge: No prior experience on this topic is needed

Room: 101

With cable options ranging from Category 5e up to the new Category 8 and fiber optic options ranging from OM1 Multimode to OM5 Multimode and OS2 Singlemode, it is important to ensure that you are selecting the correct cable medium not only for your current, but also your future applications. Network performance issues can be attributed to a variety of potential causes ranging from substandard installation practices, substandard quality components, and using the incorrect cable for the desired application. In this session we will discuss the following: selecting the correct cable for your application, risks associated with using substandard quality components, and how substandard installation practices can impact network performance.

Rethinking macOS Management

Presenter: Tim McCleary, Supervisor of Technology; Cheltenham School District

Audience Level: Intermediate

Audience Knowledge: Experience with macOS imaging, deployment, and management

Room: 102

With High Sierra and up, Apple has thrown a monkey wrench into how many people deploy and manage their Macs. What is the best way to deploy a new Mac? Refresh an existing Mac? Does imaging still work? How do I keep all my apps up-to-date? We will answer these questions and more as we discuss best practices and what has changed in the past few years.

The CLI (Command Line Interface), Ohh My! - Continued

Presenter: Todd Echterling, Campus IT Security Specialist/Systems Administrator; Millersville University

Audience Level: Novice

Audience Knowledge: No prior experience on this topic is needed

Room: 103

In this session we will take a look at the command line interface for some of today's modern operating systems. We will primarily look at the Unix-based command lines as seen in Linux and macOS. We will look at some basic commands that can make the life of a systems administrator a lot easier. We will look at Bash scripting and touch on Python and Pearl commands. Scripting for your MDM platform will also be discussed. This session is geared toward the novice to intermediate systems administrators. A laptop is highly recommended for this session.

Move a Mountain: Accomplish a Successful Initiative

Presenter: Jason Murray, Technology Coordinator; Cornwall-Lebanon School District

Audience Level: Intermediate

Audience Knowledge: No prior experience on this topic is needed

Room: 104

From vision to finish line, we will discuss the steps necessary to accomplish a successful program implementation. We will layout a general framework that can be applied to most new initiatives. Refining vision, concentrating on pivotal points, creating timelines, developing benchmarks, monitoring progress, analyzing unintended consequences, and measuring success will guide the presentation. Attendees will receive a Gantt chart and framework templates to assist with future implementations.

Microsoft Azure Backup, Site Recovery, File Stores, and Cloud Tiering Deep Dive

Presenter: Thomas Grimm, Partner and EVP; BT Pros

Audience Level: Novice

Audience Knowledge: No special skills or experience is needed for this session

Room: 108

In this session, we will take a deep dive into the different workloads that can be protected with off-site backup to the Azure cloud and review the various options for Azure Site Recovery, File Stores, and Cloud Tiering.

IPv6 Training (Day 2) Continued

Presenter: Dr. John Pickard, Assistant Professor, Department of Technology Systems; East Carolina University

Audience Level: Expert

Audience Knowledge: Basic Networking

Room 110

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Demo Session 10:30 AM – 11:00 AM

1:1 Devices

Presenter: John Burd, Troxell Communications

Room: 111

Come demo and try out various brand PC and Chromebooks that are built for a 1:1

environment.

Demo Session 11:00 AM – 11:30 AM

Dell EMC End User Devices

Presenter: Brendan Moore, Dell EMC

Room: 111

Dell EMC will be displaying recently launched and current generation devices for K-12 students, faculty, and staff.

Session III: 11:40 AM – 12:30 PM

Cybersecurity: Ransomware, Data Breaches, and Other Threats

Presenter: Nate Kline, Sr. Account Executive; Infradapt LLC

Audience Level: Intermediate

Audience Knowledge: No prior experience on this topic is needed

Room: 101

Cybercrime will cost businesses over \$2 trillion by 2019, and the average cost of a data breach will exceed \$150 million by 2020. Don't be a statistic! Learn how to thwart cyberattacks in their tracks! And, arm yourself with the right tools and knowledge to mitigate your exposure to cyberattacks! Nate Kline, a Senior Account Executive for a leading technology firm Infradapt, provides an overview of cybersecurity best practice as a three-pronged approach. The presentation begins with an overview of the cybersecurity crisis with a transition into the various threats to a network's environment, and ultimately, how to fortify networks in the best way possible to reduce potential risks.

TotalEmail: A Free and Managed Service for Detecting Malicious and Suspicious Emails

Presenter: John Hurd, Threat Intelligence Research Engineer; ThreatConnect

Audience Level: Novice

Audience Knowledge: No prior experience on this topic is needed

Room: 102

This presentation will introduce a new, free service to help you detect whether or not an email is malicious or suspicious. This managed, cloud service, known as "TotalEmail," submits an email to multiple spam detection systems and consolidates the results to a single value to help you determine if an email is likely malicious. TotalEmail also allows you to view the detailed results from multiple spam detection engines and investigate the contents of the email itself. We are excited to present this relatively new system and we would love to get feedback and any input to help us make this system more effective.

So You Want to Be a System Admin?

Presenter: Jared Gaul, Systems Administrator; Lancaster-Lebanon IU13

Audience Level: Novice

Audience Knowledge: No prior experience on this topic is needed

Room: 103

In this session, the presenter will explain his journey moving from Desktop Support to a Systems Admin position. From his learning experience, he will suggest the knowledge that may have been helpful to study prior to making the jump. This is a basic transitioning session.

Building a Voice Ready Network: Getting Everyone Talking

Presenter: Michael DeBakey, Network Engineer; Lancaster-Lebanon IU13

Audience Level: Novice

Audience Knowledge: No prior experience on this topic is needed

Room: 104

When converging data and voice media on a single wire, understanding is half the battle. This session will provide the attendee with a refresher on what options exist for Voice over IP (VoIP), traditional phone circuits, and how networks today are

designed with data, voice, and video in mind. If you have never invested the time to review your unified communications strategy, now is the time. An interactive Q&A will be offered to help articulate your new strategy to key stakeholders in your schools and get your telephony project done for the right cost.

Fiber Optic Infrastructure, Infinite Solutions

Presenter: Aykut Balkaya, Managing Partner; OSP.com

Audience Level: All

Audience Knowledge: No prior experience on this topic is needed

Room: 108

Join our session to discuss best practices in planning, installation, maintenance, and equipment to get to Warpspeed!

- **Planning:** Fiber Optic network design options - Type of fiber to use? Aerial or underground plans? Network redundancy plans? Considerations for future upgrades?
- **Installation/Maintenance:** Fusion splicing and installation of fiber, pigtailed and patch cords, what connectors need to be used? How can future maintenance be minimized? Maintenance contract terms and SLA costs and considerations.
- **Equipment:** Switches, patch panels, and transceivers are your ticket to Warpspeed! 1G, 10G, 40G, 100G, and WDM Warpspeed options are available.

What are the specifications of the equipment? Does every piece of the network work in harmony with one another?

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Demo Session 11:40 AM – 12:30 PM

eSports in Education

Presenter: Joshua Kell, CDW-G

Room: 111

An overview of how eSports is changing the education landscape will be provided, as well as how to interface with STEM and curriculum that centers around eSports.

Session IV: 2:00 PM – 3:00 PM

Third Party Plugins for SCCM

Presenter: Eric Treater, Systems Administrator; North Allegheny School District

Audience Level: Intermediate

Audience Knowledge: Basic SCCM Experience

Room: 101

This session will discuss several third party plugins for SCCM and how they can be used to manage devices and gather information easily. Primarily demonstration-

driven, attendees will see how each of these utilities is used in our environment consisting of approximately 1,200 Faculty and Staff; 8,000 students; and 5,500 Windows-based endpoints. Utilities covered will include: HP Manageability Integration Kit, Dell Command|Integration Suite, Zander Client Center, Collection Commander, and Recast Right Click Tools.

It Is as Easy as 1, 2, 3 – Automated Access and Directory Creation with ClassLink!

Presenter: Bob Chappell, VP of Instructional Technology; ClassLink District

Audience Level: All

Audience Knowledge: No prior experience on this topic is needed

Room: 102

Imagine - student or staff are entered in your SIS or HR system, a directory account automatically gets created (AD, Google and./or Azure/O365 via OneSync), immediate personalized access to all digital/online resources is available, via single sign on and rostering. Analytics provides usage and helps districts manage their investment. (ClassLink does this all - see how with SSO, network drive access, rostering, directory provisioning and analytics)

Delivering First Class Support with Student Technicians

Presenter: Bruce Sarte, Director of Information Technology; Cedar Crest College

Audience Level: Intermediate

Audience Knowledge: Those who attend this session should have a working knowledge of what it takes to support end users. Those new to managing departments or help desks are welcome but should be comfortable with basic technology support practices.

Room: 103

In this session we will discuss different models of user support services and how to build a successful technology service and support model no matter how many support technicians you have and what their level of expertise might be. We will discuss outsourced, fully staff-led and hybrid models that include student technicians. We will cover what a 360-degree user support experience looks like and how best to achieve that in departments from small to large. This session is

targeted towards department and help desk management.

SharePoint Collaboration

Presenter: Microsoft/BT Pros

Audience Level: Novice

Audience Knowledge: No special skills or experience is needed for this session

Room: 104

In this session we will explore how to share and manage content, knowledge, and applications to empower teamwork, quickly find information, and seamlessly collaborate across the organization.

E-Rate Changes and Broad-Based Infrastructure Bill Update

Presenter: John Windhausen, Executive Director; SHLB Coalition

Audience Level: Novice

Audience Knowledge: No prior experience on this topic is needed

Room: 108

Congress and the Trump Administration are considering significant reforms to US Broadband policy. The FCC will be looking at making comprehensive changes to the E-Rate program in 2019 and Congress will be considering a broad-based infrastructure bill that could provide billions of dollars to fund new broadband deployment and adoption strategies. John Windhausen, Executive Director of the SHLB Coalition, will review all of these developments in an interactive presentation and discussion. In particular he will discuss the SHLB Coalition's draft broadband legislation that proposes to deploy broadband networks "to and through" community anchor institutions to the surrounding community.

IPv6 Training (Day 2) Continued

Presenter: Dr. John Pickard, Assistant Professor, Department of Technology Systems; East Carolina University

Audience Level: Expert

Audience Knowledge: Basic Networking
Room 110

This two-day, instructor-led, hands-on, lab-heavy training class is ideally suited for network and systems engineers of all skill and experience levels. It covers the fundamentals of IPv6 and its similarities and differences with respect to IPv4. Also covered in the course are the mechanisms developed to facilitate transition, how IPv6 is accommodated in supporting technologies, such as routing protocols, DHCP and DNS, and multicasting, as well as security.

Hands on labs are conducted on remotely-hosted, actual networking equipment.

This course is certified "Gold" by the IPv6 Forum Education Logo Program. The course will be delivered by a "Gold" certified IPv6 Engineer and "Gold" certified IPv6 Instructor.

Upon completion of this course and successfully passing the certification exam, participants may take the examination to achieve the Silver Certified Engineer certification.

Demo Session 2:00 PM – 2:30 PM
Automate Student Registration and Cumulative Folders Using an Award Winning Software Platform

Presenter: William Baldini, Registration Gateway

Room: 111

Is your district interested in streamlining student registration or moving towards electronic student records? During this session attendees will learn how other PA districts have digitized their registration and records by using Registration Gateway. Attendees will also see new features released in 2019 including user interfaces that are mobile responsive.

Demo Session 2:30 PM – 3:00 PM
Video Analytics

Presenter: Paul Dillon; App-Techs

Room: 111

Video Analytics, powered by Artificial Intelligence (AI) and deep learning, are shaping the future of video surveillance. Recent advancements have significantly improved AI's utility, while reducing cost barriers. Video Analytics are becoming practical and cost-effective for schools and other organizations with limited security budgets. Join the App-Techs team to preview our EasyVA line of servers, which are pre-loaded with Video Analytics. See how the system accurately identifies people, faces, license plates, vehicles, objects, and intrusions in real-time. We will showcase how you can search through weeks of video and find particular moments-of-interest within seconds. With our EasyVA, you can improve security response times, reduce monitoring costs, and get the most out of your existing video surveillance system.

Session V: 3:30 PM – 4:30 PM

System Administration/MDM Round Table Discussion

Presenter: Dave Light, System Administrator; Lancaster-Lebanon IU13

Audience Level: All

Audience Knowledge: No special skills or experience is needed for this session

Room: 101

Do you love or hate your MDM? Come share the things that make managing devices in your district a breeze or share the things that frustrate you the most. Let's chat about managing mobile devices, as well as computers (Mac and Windows) and cellular devices.

1:1/BYOD Panel Discussion

Presenters: Susan Koetzle Hoffman, Technology Help Desk Technician; Elizabethtown Area School District, Randy McNally, Director of Technology; Gwynedd Mercy Academy, Scott Harken, Account Executive; Trinity3 Technology,

John Burd, Account Executive; Troxell Communications

Audience Level: Novice

Audience Knowledge: No special skills or experience is needed for this session

Room: 102

Is your district/school at the beginning, middle, or end of your 1:1 or BYOD implementation? Join us for a panel discussion on planning, preparation, implementation, maintaining, and budgeting for your initiative. Each panel member will have five minutes to highlight their topic of choice followed by questions from the moderator. The session will end with an audience Q&A.

Virtual Reality in the Classroom

Presenters: Michael Ronan, Solution Technologist; Lenovo

Audience Level: Novice

Audience Knowledge: No prior experience on this topic is needed

Room: 103

Come learn how to use Virtual Reality (VR) in the classroom. This live presentation/demonstration leverages VR using Google's Daydream OS, Expedition, and Tour Creator software. See firsthand the power VR has in engaging students and learn how school districts are leveraging the technology to enhance curriculum.

eSports in Schools Round Table Discussion

Presenter: Michael Keene, Network & Systems Administrator; Conestoga Valley School District and Chadwick Whenry, Tech Support Specialist; Conestoga Valley School District **Audience Level: Novice**

Audience Knowledge: No prior experience on this topic is needed

Room: 104

Join Conestoga Valley School District in a round table discussion around eSports in Education. Come prepared to learn about their experiences and share your experiences and thoughts around the subject.

Network Administration/E-Rate Round Table Discussion

Presenter: John Windhausen, Executive Director; SHLB Coalition

Audience Level: Novice

Audience Knowledge: No prior experience on this topic is needed

Room: 108

Congress and the Trump Administration are considering significant reforms to US Broadband policy. The FCC will be looking at making comprehensive changes to the E-Rate program in 2019 and Congress will be considering a broad-based infrastructure bill that could provide billions of dollars to fund new broadband deployment and adoption strategies. Join the round table discussion on this subject, as well as ideas to improve management of your network. Come ready to share your stories, successes, and failures.

IPv6 Training (Day 2)

Presenter: Dr. John Pickard, Assistant Professor, Department of Technology Systems; East Carolina University

Audience Level: Expert

Audience Knowledge: Basic Networking

Room 110

This two-day, instructor-led, hands-on, lab-heavy training class is ideally suited for network and systems engineers of all skill and experience levels. It covers the fundamentals of IPv6 and its similarities and differences with respect to IPv4. Also covered in the course are the mechanisms developed to facilitate transition, how IPv6 is accommodated in supporting technologies, such as routing protocols, DHCP and DNS, and multicasting, as well as security.

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Demo Session 3:30 PM – 4:00 PM

Sustainability and Revenue from IT Asset Disposal

Presenter: Peter Bartula, Computer Systems Asset Disposal

Room: 111

Our demonstration will provide detailed information on the processes and improved results that can be achieved by implementing our IT Asset Disposition system.

Demo Session 4:00 PM – 4:30 PM

Maker Space Furniture

Presenter: Brian Lambert, Spectrum Industries, Inc.

Room: 111

This session will demonstrate collaborative furniture for active learning environments.

Wednesday, May 8, 2019

Session I: 9:00 AM - 10:00 AM

Access Control in the 21st Century

Presenter: Brian Steigauf, Program Director; Lancaster-Lebanon IU13

Audience Level: Novice

Audience Knowledge: No prior experience on this topic is needed

Room: 101

Is your technology department in charge of the district's access control system and surveillance cameras? If you are not, are you constantly being pulled into supporting the system because the devices are "connected to the network?" This presentation will focus on a completely network-based access control systems that can be integrated with the surveillance system and the district's Active Directory for a completely integrated solution.

Painless Network Transitions

Presenter: Michael DeBakey, Network Engineer; Lancaster-Lebanon IU13

Audience Level: Intermediate

Audience Knowledge: No prior experience on this topic is needed

Room: 102

One of the most terrifying experiences a network engineer will have is transitioning to a newer, better, faster platform relied upon by every member of the network. It all has to work 100% on day one, right? The good news is that it is not as bad as you might think when logic and planning are introduced into the process. We will examine some rudimentary processes to assist in making network transitions smoother and better understand some of the first bugs you will encounter in the process.

A Year with Salt: Lessons Learned

Presenter: Paul Williams, Systems Administrator; University of Delaware

Audience Level: Intermediate

Audience Knowledge: Prior experience/knowledge of Salt or other configuration management tools would be helpful.

Room: 103

Last year at Tech Talk Live, the presenter shared an introduction to configuration management with Salt. This session is a follow-up after a year+ of hands-on experience using it in their environment. He will share lessons learned and how his approach to using it has changed over time. For those unfamiliar with Salt, he will start with a brief introduction. The lessons he has learned may help you improve your current use of Salt or get you started off on better footing, if you are just beginning to investigate it.

Inexpensive Networking for Schools!

Presenter: Brant Kenny, Systems Engineer; Lincoln Intermediate Unit 12

Audience Level: All

Audience Knowledge: Familiarity with basic networking concepts will help, but is not required

Room: 104

In this presentation, you will be provided with an overview of the Ubiquiti Unifi networking suite, dive into initial setup and configuration of a simple network using the free Ubiquiti SDN controller, and take a quick look at the Auto Site-to-Site VPN feature available in the SDN controller.

Reliability without Compromise

Presenter: Javier Rodriguez, IT Director; Hatboro-Horsham School District, Nick Babiak, Sales Manager, DVL Group

Audience Level: Intermediate

Audience Knowledge: An elementary understanding of Data Center and MDF electrical and mechanical support systems.

Room: 108

Sizing a generator, UPS system, or cooling system is not an easy task and there are certainly consequences in undersizing or oversizing such systems that can have a detrimental impact on performance and reliability. In this presentation, you will learn firsthand how Hatboro-Horsham School District selected the right equipment for their data center and IDF/MDF closets throughout the school district without compromising performance or reliability. We will investigate proper sizing procedures and factors of safety for selecting the right generators, UPS systems, and computer room air conditioners.

A Hardware Discussion with Matt

Presenter: Matthew Ferro, Systems Administrator; Bucks County Intermediate Unit

Audience Level: Intermediate

Audience Knowledge: No skills needed, just a desire to become more knowledgeable about the hardware that runs our daily lives.

Room: 110

This discussion will cover the latest advancements in hardware for desktops, laptops, and servers. The session goal is to help everyone understand the advancements and the terminology used since these are ever changing. A better understanding of hardware will enable you to make smarter purchasing decisions for your future technology refreshes. Topics covered will include everything from QLC solid-state storage, AMD's resurgence as a leader in processor technology, and Optane technology to Intel's complete rename of their Xeon product line. In addition, VR hardware and AI/machine-learning accelerators will be briefly discussed.

Transitioning from Traditional Endpoint Management to Unified Endpoint Management

Presenter: Mike Shellenberger, Engineer; Candoris

Audience Level: All

Audience Knowledge: No prior experience on this topic is needed

Room: 111

The digital transformation we are currently undergoing is requiring us to manage multiple types of devices, platforms/OS, and applications across both organization-owned and bring your own device computing models. Traditional endpoint management solutions are designed to best support specific operating system platforms; however, maintaining separate siloed management tools for each type of platform/OS is not conducive from a cost or time perspective. How can we manage Windows, macOS, ChromeOS, iOS/Android endpoints under one platform and deliver the end-user a true digital workspace solution regardless of platform? This is all achievable with the right tools, approach, planning, and expertise. In this session the presenter will discuss where he believes the end-user computing industry is headed and we will dive into demos of VMware's solution for digital workspace/UEM known as Workspace ONE.

Session II: 10:30 AM - 11:30 AM

Developing a Comprehensive Security Strategy for IT

Presenter: Michael Graham, Director of Technology; Hempfield School District

Audience Level: Intermediate

Audience Knowledge: Experience writing firewall rules and a thorough understanding of endpoint security

Room: 101

IT is responsible for securing a wide range of hardware and information, much of it critical to daily operations. Threats can come in many forms and from many different directions. Securing your environment requires a comprehensive approach that addresses hardware, software, networks, information, and people. This presentation will cover Hempfield's approach to securing the enterprise from a variety of different viewpoints including technical protections, policies, and practices.

Using an Enterprise Content Management System to Transform Processes

Presenter: Carla Davis, Technical Systems Analyst; West Chester University of PA

Audience Level: Novice

Audience Knowledge: No prior experience on this topic is needed

Room: 102

Traditionally the Faculty Tenure & Promotion (TeP) process included multiple four-inch binders filled with hundreds of protected pages, detailed table of contents, and indexes. Not to mention supporting diagrams, referenced published works, manuals, and books all ready to present to the review committee for evaluation. At West Chester University of Pennsylvania, the TeP process was examined, evaluated, and reworked to be a completely online process using Hyland OnBase, a Content Services platform. Candidates have replaced binders with a scanner and laptop. This interactive presentation highlights the strong partnership that was developed between the Office of the Provost and TeP Committee working with IT leadership, providing an automated, secure way to manage the complete faculty tenure review and promotion decision process, ensuring fairness and visibility throughout. We will talk about the lessons learned from the first year TeP implementation and how the IT organization made changes in the second year providing excellent operational level services and support using a hybrid IT support model working directly with Hyland OnBase.

Leveraging the JAMF Pro API

Presenter: Mike Matz, Systems Engineer, Wyomissing Area School District

Audience Level: Intermediate

Audience Knowledge: Previous experience working in a command line environment, basic shell scripting experience, familiarity with Python and/or Swift, and familiarity with Xcode.

Room: 103

This presentation will introduce Jamf admins to the next level of device administration by leveraging the capabilities of the Jamf Pro API and simple one liners in the shell to more effectively manage their Jamf environment. From there we will move on to more complex scripting examples using Python. Finally, we will delve into the full power of the API by looking at full stack development of an app using the API. Attendees will also learn best practices for working with the API, as well as how to setup a testing environment using Docker. Throughout the presentation examples of commands, scripts, and workflows used in the production environment at Wyomissing Area School District will be provided.

Data Wrangling with Python

Presenter: Jonathan Bowman, Project Manager ;Candoris

Audience Level: Intermediate

Audience Knowledge: Some familiarity with programming may be helpful.

Knowledge of Python is not necessary

Room: 104

Juggling CSV files, API calls, SFTP transfers, and your sanity? In your work you likely navigate a variety of data systems, such as your Student Information System, Learning Management System, and various online services. "Gluing" these systems together often requires scripting. Python, a general purpose scripting language, supports any operating system and is easy to learn. In this presentation, we will consider how to use Python to engage the sorts of data transfer processing challenges you regularly face. If Python is not your scripting language of choice, you still may find these concepts relevant.

Get Started with Microsoft ATA Security

Presenter: Michael Briganti, System Administrator; Bucks County Intermediate Unit

Audience Level: Intermediate

Audience Knowledge: No prior experience on this topic is needed.

Room: 108

In this session we will learn the preliminary steps of deploying Microsoft Advanced Threat Analytics in your network, and how to get up and running. Start protecting your organization from malicious attacks today!

Cloud Filtering with Parental Integration & Innovate Student Safety

Presenter: David Huson, Sr., Regional Sales Executive; Securly, Inc.

Audience Level: Intermediate

Audience Knowledge: No prior experience on this topic is needed

Room: 110

With growing 1:1 initiatives in K-12 and the increase in digital learning environments, schools are faced with new risks that need to be managed. This improved access to technology, combined with the prevalence of social media, has dramatically increased student exposure to cyberbullying and harassment. Instances of suicide among school-aged children are on the rise. Mental health care is becoming a priority for school districts across the nation. As a result, many districts have adopted digital citizenship initiatives and are training crisis teams to help mitigate student exposure to cyberbullying. Securly's mission is to keep students safe online. Two manifestations of this mission are a groundbreaking cyberbullying and self-harm detection system for social media and email, paired with an optional parental integration portal that allows parents to view their child's online activities. Parents now have the ability to engage with their child regarding his or her online activity, in or out of school, and receive alerts for behavior that indicates self-harm or bullying. By creating a partnership between parents and schools, in the area of student online behavior, we are saving lives daily and helping schools prepare students for their lives as digital citizens. Integrating parents by allowing them to view their child's online activity is a new concept, our lead Student Safety Coordinator will speak to how schools can utilize this program. This session will focus on student safety initiatives, as well as answer most common questions and concerns IT staff have with implementing this new alternative approach.

HCI: Get to Know HyperFlex

Presenter: Jamie Ellis, Data Center Specialist; Cisco

Audience Level: Intermediate

Audience Knowledge: No prior experience on this topic is needed

Room: 111

Everyone is talking about hyperconvergence, and for good reason. By right-sizing your environment and eliminating the cost, complexity, and time commitment of traditional SANs, your team can work lean. If hyperconvergence is so easy, why is picking an HCI vendor so hard? Join Cisco in this session to learn about what makes HyperFlex stand out among competitors. Check out a demo of our management interface and review performance benchmarks so you can make an informed decision about hyperconvergence for your organization. In this hour-long session, we will cover: an introduction to HCI, the landscape of HCI vendors, Cisco's

HyperFlex Platform, and a Q&A.

Session III: 1:00 PM – 2:00 PM

Microsoft EES Agreement and Options

Presenter: Karen Oberly, Technology Services Manager; Lancaster-Lebanon IU13

Audience Level: Novice

Audience Knowledge: No prior experience on this topic is needed

Room: 102

This session will provide a detailed description of the Pennsylvania EES Agreement and its available licensing, service, and pricing options available through IU13 to schools across Pennsylvania.

IPv6 Testing Room

Presenter: Dr. Ciprian Popoviciu, Founder/CEO; Nephos6

Audience Level: Expert

Audience Knowledge: Must have taken the IPv6 training in 2019 or 2019

Room: 108

Individuals who took the IPv6 training last year and those that are taking the training this year have the opportunity to take the IPv6 certification test at no additional cost.

Using AI to Beat Cyber Security Threats – Trends and Tools

Presenter: Rick Fern, Systems Engineer; Palo Alto Networks

Audience Level: Intermediate

Audience Knowledge: Participants should have general familiarity with cybersecurity to benefit from this discussion. Familiarity with firewalls, endpoint protection, and/or cloud security may also be helpful.

Room: 111

In this presentation we will look into the evolution of threat activity and the cloud automation tools and techniques aimed at preventing successful cyberattacks. This session will include the following: an emphasis on technical/education content, a look behind the curtain at the machine learning environment, the importance of context in examining threats, using extended visibility to drive best practice thinking, reducing the attack surface – app controls and file blocking on the network, using traps to prevent malware execution on endpoints, and extending uniform security policy into the cloud.

Reserved for Popular Repeat Session

Room: 101

Repeat Session

Reserved for Popular Repeat Session

Room: 103

Repeat Session

Reserved for Popular Repeat Session

Room: 104

Repeat Session