



IT **NINTH ANNUAL** Hot Topics 2011

Conference & Golf Tourney

May 12th & 13th | Grandover Resort & Golf | Greensboro, NC

 Hosted by Carolina Advanced Digital, Inc. & Partners



Welcome to IT Hot Topics!

IT Hot Topics Conference is one packed day of technical breakouts and speakers and an optional second day of golf. We're pleased to offer this great lineup with presentations by industry experts from across the country, including a special keynote presentation from renowned security specialist Chris Nickerson. Plus, you can earn CPE credits for attending!

We hope you enjoy the beautiful and serene setting of our event venue here at the Grandover Resort and Golf.

IT Hot Topics is hosted by Carolina Advanced Digital, Inc. in conjunction with our selected partners.



2011 Partners

ESSN
FALE ASSOCIATION OF LOCKSPORT ENTHUSIASTS
InfraGarc
a collaboration for
infrastructure protection
Information Systems Security Association
The Global Voice of Information Security

About Your Host

Carolina Advanced Digital, Inc. is a woman owned, veteran owned, small, privately held corporation based in Cary, NC. In business and continuous operation for more than 25 years, the company is an **engineering solution** focused IT professional Service and product provider in the federal, state and local government, education and corporate markets. We offer most of our services and products via open market, Federal GSA and various state contracts.

Although we cover a wide range of markets, Carolina Advanced Digital is focused on those comparatively few skills and products that provide, enable or enhance **IT Infrastructure, Security, Management and Disaster Recovery**.

While we have **certified engineering expertise** in all the solutions we offer, we are probably best described as not having verticals; rather, we are more horizontally organized. The **skills, experience and certifications** we have developed and obtained are applicable to any organization with the aforementioned requirements as part of their IT environment in support of their organizational mission statement.

Many years of experience have taught us to focus upon our **core competencies** in our professional service offerings and to select those products that function best in support of those services in achieving the mission statement of any solution or project.

The **company principals** have employed more than 70 years of combined professional Information Technology industry experience to refine the company offerings to a comparatively narrow spectrum. We have also used our experiences, good and bad, to develop methods and **highly detailed procedures** that are employed in every phase of our professional service operations: discovery; planning; statement of work; design; implementation; maintenance; managed services.

This results in a **fully successful implementation** the first time. It really comes down to expert planning for the solution, its design, implementation and management. It is truly that simple conceptually, but requires substantial technical expertise and experienced application to produce the desired result.



Don't just take our word for it — we encourage you to talk to our customers and hear what they have to say about CAD's expertise and strong vendor partnerships.

Agenda: Thursday

Time		Session	Location
8:00	9:00	Breakfast and Welcome	Grandville Ballroom
9:00	9:50	Keynote	Grandville Ballroom
10:00	10:50	Breakout A	Upstairs
11:00	11:50	Breakout B	Upstairs
10:00	11:50	Hands-on Lab (HP)	Upstairs
12:00	1:00	LockFALE Lunch & Learn	Grandville Ballroom
1:00	1:50	Breakout C	Upstairs
2:00	2:50	Breakout D	Upstairs
1:00	2:50	Hands-on Lab (Meru)	Upstairs
3:00	3:30	Afternoon Break & Snacks	Grandville Ballroom
3:30	4:15	Top Tech Trivia	Grandville Ballroom
4:15	5:00	Wrap Up and Prizes	Grandville Ballroom
5:30	7:30	Directors Reception*	Grandville Foyer

*Directors Reception, by invitation only for our CXO and Director attendees

Thursday Breakout Session Planner

	TRINITY	SAVOY
Session A 10:00-10:55	Wireless Networks – How hard can it be? Chad Nusbaum (CAD)	Low Tech Hacking - More Ways That I Broke Into Their Buildings Jack Wiles (The Training Co.)
Session B 11:00-11:55	Meru Networks WiFi Explosion: Is Wireless becoming the new Edge?	Pen Testing Remix Ryan Linn (SAS)
LockFALE Lunch & Learn		
Session C 1:00-1:55	Blue Coat Learning Lab Jason Leon & Brenda King (CAD)	HP Networking HP Networking – The Next Generation
Session D 2:00-2:55	UTM and IPS Technologies Tim Killian / Jeremy Howerton (HP Tipping Point)	Mobile Security - Attacks at Every Layer Tyler Shields (Veracode)

Agenda: Friday

Time		Session	Location
7:30	8:30	Golfers Kickoff Breakfast	Carlisle Ballroom
8:30	1:00	IT Hot Topics Golf Tourney	West Course
1:00	3:00	Golfers Awards Luncheon	Carlisle Ballroom

Friday Golf Tourney

If you have not registered to play golf, but would like to participate, please visit the registration desk to be added to the list. For golf-only attendees, the tournament fee is \$80. Conference attendees pay only \$50 (we provide a \$30 voucher to Thursday attendees). For more information on the Hot Topics Golf Tourney, see page 13.

Thursday Breakout Sessions

Breakouts are divided into three primary tracks: the Technology Track for educational best practices and how-tos, Hands-on Labs, and the Vendor Track where we give our partners the opportunity to share with you their latest and greatest technologies and give you a peak at upcoming trends and solutions. Full session descriptions can be found starting on page 7.

WENTWORTH	WINDSOR
Juniper Networks Defining Mobile Device Security with Juniper Networks Junos Pulse Mobile Security Suite	HP Networking Hands-on Lab
SonicWALL What's Really Going on in your Network and Compliance Via Email	
HP Storage & Servers The Converged Infrastructure – Reality or Marketing Hype?	Meru Networks Hands-on Lab
Bradford Networks Best Practices with 802.1X, NAC and Bradford's Network Sentry™	

Technical Track
Hands-on Labs
Vendor Track

Keynote



Keynote

Grandville Ballroom
Thursday, May 12th
9am-10am

Compliance: An Assault on Reason

Chris Nickerson

CISSP, CISA, BS7799, NSA IAM, CCNA, MCSE+1, NCSE

You have done ISO/ PCI/ HIPAA /SOX/FISMA <insert EU Compliance Audits>, 10 Pentests, 20 Vulnerability Assessments, Code Review, App Testing and enough paperwork to feed the fire all winter long... but what did it get you. It got you a huge bill and a hardware stable of all of the latest security products. So now what? Are you safe? Will the Millions you spent on Hardware, Software and Compliance protect you from the “Bad Guys?” You may never know... but at least the marketing says it “Should.” Even if it DOES its job, will it protect your business? The answer: Not likely!

For much too long, tests have tested physical assets

and ignored the thing that matters most.... YOUR BUSINESS. This session will discuss how we can change the paradigm. Throw away the # of addresses, the compliance reg, the book of what IT “thinks” is important and let’s get to work on testing the BUSINESSES ability to survive an attack. We will review how to evaluate what DOES matter and show you what the “Bad Guys” are actually looking for when they break in. At the end, it is about protecting the special sauce that makes your company unique. You can’t pay a fine for being “Non-Compliant” if you have already been HACKED OUT OF BUSINESS.

BIO: Chris Nickerson is the founder and Principal Security Consultant for Lares Consulting. As a Certified Information Systems Security Professional (CISSP), Nickerson’s main area of expertise is focused on Information Security and Social Engineering in order to help companies better defend and protect their critical data and key information systems. He has created a blended methodology to assess, implement, and manage information security realistically and effectively.

Low Tech Hacking Book

by Jack Wiles, Terry Gudaitis, Jennifer Jabbusch

Our very own Jennifer Jabbusch and Hot Topics speaker Jack Wiles are releasing a book in October 2011!

- Contains insider knowledge of what could be your most likely Low Tech threat
- Includes timely advice from some of the top security minds in the world
- Covers many detailed countermeasures that you can employ to improve your security posture



Thursday Breakouts

TECHNICAL TRACK: PHYSICAL SECURITY

Low Tech Hacking – More Ways That I Broke Into Their Buildings

Speaker: **Jack Wiles**, Penetration Team Leader & President, **The Training Co.**

During the magical and fun session, Jack will share more of his Social Engineering tips, tricks and possible vulnerabilities. Low Tech Hacking is also the title for Jack's upcoming book being published by Syngress/Elsevier. Our own (soon to be Mrs.) JJ will be one of Jack's Contributing Authors in this, his 5th book relating to security. This session will also be one of his non-PowerPoint sessions with a lot of fun hands-on training going on. We may even take another of Jack's magical trips to a casino during the session.

Topics Include:

- Social engineering
- Physical security
- Low tech hacking

TECHNICAL TRACK: WIRELESS

Wireless Networks – How hard can it be?

Speaker: **Chad Nusbaum**, Senior Network Engineer, **CAD**

This session will discuss setting goals for a successful wireless network. We will look at wireless security, an overview of 802.11 b/g/n, benefits for a 2.4GHz and 5GHz network, discussion on dBm and how it can impact the wireless network performance and expectations, and RF interference.

Topics Include:

- WLAN planning
- Coverage and interference
- Spectrum analysis

TECHNICAL TRACK: WAN SECURITY

UTM and IPS Technologies

Speakers: **Tim Killian**, Regional Director - Mid Atlantic, **HP**
& **Jeremy Howerton**, SA - Mid Atlantic, **HP**

We will demonstrate both UTM and IPS technologies and discuss the advantages/disadvantages of each. To keep things fun, this session will also include a live attack demo in which various attacks will be launched using a Backtrack Live CD (a freely available, open-source collection of penetration testing tools).

Topics Include:

- IDS & IPS technologies
- Standalone IPS vs. UTM
- Live attack demo

Thursday Breakouts

TECHNICAL TRACK: MOBILE SECURITY

Mobile Security – Attacks at Every Layer

Speaker: **Tyler Shields**, Senior Security Researcher, **Veracode**

This talk will define a mobile security stack that can be used in analysis of mobile devices in your enterprise. What does the mobile security stack look like? Where does the REAL risk lie and how do we begin to quantify that risk level? What are the notable differences between the mobile device security landscape and that of the enterprise PC? A brief history of mobile security, detailing attacks at every level of the stack, will be discussed in an effort to formalize where the most common attacks come from and where the majority of risk is being generated.

Topics Include:

- Deconstructing the mobile security stack
- Mobile threats vs. PC threats
- Mobile security history

TECHNICAL TRACK: WAN SECURITY

Blue Coat Learning Lab



Speakers: **Jason Leon**, Network Engineer, **CAD & Brenda King**, Sales Specialist, **CAD**

In this lab, we will demonstrate the ProxySG and PacketShaper. We'll show how to apply policies to traffic based on user authentication with the ProxySG. With the PacketShaper, we will demonstrate how to shape traffic by category. In addition, we will have reporting features turned on for both devices to demonstrate the detailed reporting available.

Topics Include:

- Content filtering
- Packet shaping
- Reporting

TECHNICAL TRACK: PEN TESTING

Pen Testing Remix

Speaker: **Ryan Linn**, Information Security Engineer, **SAS**

Have you seen any of the previous Hot Topics attack scenarios? This set of demonstrations is going to detail what's new with some of the tools that you have become familiar with. Come see how to streamline Metasploit use with Armitage, managing the data output with Dradis, and how using these tools can help improve your company's security posture. Whether you are corporate security, a network engineer, sys admin, or you just like to see what the bad guys can do, this presentation will help you understand some of the updates to these popular attack tools and how to get started working with them on your own.

Thursday Breakouts

TECHNICAL TRACK: PEN TESTING

Pen Testing Remix Cont.

Topics Include:

- Attacks with Metasploit & Armitage
- Protecting from popular attack tools
- Securing your network from hackers

HANDS-ON LABS: NETWORK MANAGEMENT & HARDENING THE NETWORK

HP Networking – Hardening the Network with PCM+



Facilitators: **George Kassos, HP; Reggie E. Johnson, HP; & Jennifer Jabbusch, CAD**

This hands-on lab will combine two hot topics; network management tools and management security. Participants will use ProCurve Manager Plus tools to push best practices security configurations to switches in an exercise to learn about automating tasks for security. Recommended for network managers currently using HP ProCurve switches.

Level: Intermediate

Focus: Wired Networking

Audience: Network Admins

Topics Include:

- Management with HP PCM+
- Automating tasks
- Management security best practices

HANDS-ON LABS: WIRELESS SOLUTIONS

Meru Networks – Zero to Wireless in Two Hours



Facilitators: **Chad Nusbaum, CAD & Tony Brown, Meru**

Our wireless lab will show participants how to use Meru to go from zero to wireless in two hours. In that time, you'll take an un-configured controller and access points, sprinkle on a little instruction and end up with wireless networks of various types, including guest and secured employee networks. Recommended for network managers interested in Meru or other wireless.

Level: Intermediate

Focus: Wireless Networking

Audience: Network Admins

Topics Include:

- Controller configuration
- AP configuration
- Wireless management

Thursday Breakouts

VENDOR TRACK: JUNIPER NETWORKS



Defining Mobile Device Security with Juniper Networks Junos Pulse Mobile Security Suite

Speaker: **Gared Casey**, Senior Partner Account Manager Carolinas, **Juniper**

Rapidly growing demands by employees for smartphone access to corporate networks creates a complex enterprise security problem. While the easy access to networks provided by smartphones can improve employee productivity, unprotected devices can lead to loss or theft of valuable confidential data, and can even cause compliance or legal problems. Security threats to smartphones can also mean loss or theft of personal financial information, credit card data, and confidential identity or other files, for consumers.

The Junos Pulse Mobile Security Suite is a comprehensive solution that includes smartphone security, management, and control. It protects smartphones from viruses, malware, loss, theft, physical compromise, and other threats, and delivers robust remote device management tools for administrators.

VENDOR TRACK: MERU NETWORKS



WiFi Explosion: Is Wireless becoming the new Edge?

Speaker: **Robert Crisp**, Sr. VP of Systems Engineering, **Meru Networks**

There is an explosion of wireless devices across all verticals in the work environment and Robert Crisp sheds some light on the need to prepare and adapt to a changing edge landscape. Don't let the proliferation of tablets and smart phones in the work environment become a burden to support. Join Meru Networks in talking about how to prepare your wireless network to support edge applications for more users and more devices per user with next generation technology. If your wireless network is hard to support now, it ain't gettin' easier later!

VENDOR TRACK: HP STORAGE & SERVERS



The Converged Infrastructure – Reality or Marketing Hype?

Speaker: **Shawn Craig**, Product Sales Specialist - **HP ESSN, Synnex**

Shawn Craig breaks down the pieces of HP's Converged Infrastructure strategy to show how companies of all sizes can utilize this methodology to increase productivity and reduce costs. The Converged Infrastructure is a unique methodology designed to reduce the IT sprawl that results from different systems supporting too many different applications, connected in different ways and managed by different teams, tools and processes. By implementing a CI strategy, companies can utilize HP technology to seamlessly orchestrate servers, storage, software and networking and automate many IT tasks thereby reducing administrative overhead allowing IT resources to focus on innovation.

Thursday Breakouts

VENDOR TRACK: BRADFORD NETWORKS



Best Practices with 802.1X, NAC and Bradford's Network Sentry™

Speaker: **John Sheedy**, Technical Marketing Manager, **Bradford Networks**

Whether or not you've deployed 802.1X in your network, your organization will benefit from a comprehensive NAC solution. Bradford's Network Sentry platform delivers traditional NAC functions like authentication, endpoint compliance validation and access policy enforcement, in addition to advanced capabilities including device profiling and sponsored guest management. Best of all, Network Sentry integrates with the network and security infrastructure you have in place today, allowing you to get more out of investments you've already made. Learn how a combination of 802.1X, NAC and the advanced features of Network Sentry can help you achieve network-wide security, control and visibility.

VENDOR TRACK: SONICWALL



What's Really Going on in your Network and Compliance Via Email

Speaker: **Mark Holobach**, Enterprise Southeast Systems Engineer, **SonicWALL**

Come see how SonicWALL allows you to visualize what is going across your network and how to control those pesky applications taking up your bandwidth. Along with that aspect of the network, see how SonicWALL's email can help you meet compliancy.

VENDOR TRACK: HP NETWORKING

HP Networking – The Next Generation

Speakers: **George Kassos**, Solutions Architect, **HP Networking**

& **Reggie E. Johnson**, Systems Engineer, **HP Networking**



In this session you will learn about the new HP Networking vision and integrated HP/3Com portfolio. Industry is at an inflection point. The days of sacrificing business innovation due to the limitations and expense of the network are over. Now, clients can harness the power of convergence, along with an advanced network fabric from edge to core, to fuel competitive advantage today and into the future. The current networking paradigm lacks choice and is based on legacy, proprietary technology that is too complex, rigid and extremely costly. This has throttled innovation in client IT environments and inhibited business change. Starting today, HP is challenging the status quo with new networking technology that delivers twice the performance, half the energy consumption, 100% interoperability through open standards, multi-vendor, single pane of glass management, up to 65% lower total cost of ownership and none of the vendor lock in.

Lockpick Village with LockFALE

NEW at Hot Topics this year!

All day Thursday — FALE will be hosting a lockpick village where folks can come by to talk about physical security, learn to pick locks or talk about advanced picking techniques and tips. Plenty of locks and spare picks to play with, so be sure to stop by! FALE will also present informally during lunch, so make sure to get a seat up front if you are interested in the presentation.

FALE – FALE Association of Locksport Enthusiasts

<http://lockfale.com>



FALE came together around a common idea of general curiosity and persuasion of the public's "right to know". Formally founded in early 2010, the individuals involved in the initial organization already had a history in and love for the practice of locksport and of having a better understanding of the mechanisms we rely on so heavily to keep us secure.



Beginning with four members meeting monthly, we have quickly progressed to bi-monthly meetings attended by 15 or more individuals. We talk locks, picks, general security and a smattering of other topics when meeting all towards the end of a better knowledge of and ability to communicate the effectiveness (or lack thereof) of so many security measures in place in current society. We hope that through these conversations and our efforts publicly we will help to educate the larger community on the proper use and understanding of locks and security measures encountered daily.

Top Tech Trivia

Join us in the afternoon for a friendly game of Top Tech Trivia. Pick a table team to join and collaborate to answer trivia. These 30 tricky tech questions, created by our engineering team, will test your team's knowledge and savvy.



How to play:

- Be back in the general session at 3:30
- Sit at a table to pick your team
- Use the clicker to answer trivia as a team

Tips and tricks:

- Look for Trivia Nibbles during sessions and around the conference
- The winning team gets some cool prizes!

Golf Journey

Friday, May 13th
Grandover West Course

Come play with the pros!

Well, the IT pros, that is. Join our team of industry experts and test your skills on the green. Our annual Hot Topics Golf Journey is a fun, casual way to meet and mingle with peers and our IT experts while enjoying a little bit of the outdoors.

Hot Topics Golf Journey is captain's choice with shotgun start. Prizes are awarded for First and Second Place teams as well as for four specially marked contest holes.

The Golf Journey is open to any Conference Attendees who wish to play.

Tournament Pack

There is an \$80 tournament fee (Thursday conference attendees receive a \$30 voucher), which includes your Tournament Play Pack, breakfast and entry to the awards luncheon immediately after the tournament.

Your Tournament Play Pack includes:

- Golfers Kickoff Breakfast
- CAD Golf Play Pack
- Golf Cart
- GPS
- Range Balls
- Beverages
- Golfers Awards Luncheon

Course Details

All 2011 tournament participants will play the West Course at Grandover. Grandover received four and a half stars, noted as one of "America's Best Places to Play" by Golf Digest and "Best Conditioned Courses in North America" by Golf Digest (4th place).

Proper attire is required:

- Shirts with collar
- No jeans or short shorts
- No metal spikes

Important Info:

Playing Grandover **West Course**
Breakfast at **7:30am**
Shotgun Start at **8:30am**
Captain's Choice / Best Ball
Play from **White** tees
Straightest Drive: **Hole 4**
Longest Drive: **Hole 6**
Longest Putt: **Hole 14**
Closest to the Pin: **Hole 15**



Meet the CAD Team

Carolina Advanced Digital, Inc. is proud to have a dedicated team of engineers and account specialists to make sure your every need is covered.

Meet the 2011 CAD, Inc. Team!

Susan Jabbusch, President

susan@cadinc.com

John Jabbusch, Founder & Chief Engineer

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Jennifer Jabbusch, CISSP, CISO, Infrastructure Security Specialist

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Brenda King, Sales Specialist

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Blair Remington, Marketing & Communications Manager

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Trivia Nibbles

Stanford University classmates Bill Hewlett and Dave Packard **founded HP** in **1939**. The company's first product, built in a Palo Alto garage, was an **audio oscillator**—an electronic test instrument used by sound engineers. One of HP's first customers was **Walt Disney Studios**, which purchased eight oscillators to develop and test an innovative sound system for the movie ***Fantasia***.



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Hot Topics 2012

Join us next year to celebrate!

CAD's **10th** Annual
IT Hot Topics Conference & Golf Tourney
Grandover Resort & Golf



We'll see you next year!



CAROLINA ADVANCED DIGITAL, INC
IT INFRASTRUCTURE | SECURITY | MANAGEMENT

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