

Academy Conference Breakout Sessions

BREAKOUT SESSION 1 - Thursday 10:15 - 11:30

<p>Market, Recruit, Equip Oh My! Building the Road to NetAcad (Room 1002)</p>	<p>Stephanie Kelly Corporate Affairs Business Development and Marketing Manager for Cisco U.S /Canada</p>	<p>Come and learn how Cisco approaches marketing and recruiting for Networking Academy in the U.S. You'll discover the method behind the madness, tools that are available to you, and have the chance to ask marketing related questions. The speaker is Stephanie Kelly, Corporate Affairs business development and marketing manager for Cisco in the U.S. and Canada.</p>
<p>Packet Tracer 6.1 (Room 1005)</p>	<p>Echo Rantanen Technical Manager - USA/Canada, Corporate Affairs</p>	<p>Learn the new features of Cisco Packet Tracer 6.1, participate in a hands-on activity highlighting the new CCNA R&S topics and hear about new PT projects.</p>
<p>ICT Pathways Model, Irvington High School, MVROP, and Ohlone College (Room 1015)</p>	<p>Hector Albizo & Salwa Berbawy Irvington HS</p>	<p>Come hear about Irvington High School's well established ICT pathway. With activities from middle school through college. Middle school outreach and summer camp, dual enrollment 9th grade Intro to Tech class, over 160 students in their Cisco Academy, and an opportunity for their students to earn up to 15 units of college credit. Irvington's pathway is supported by the local ROP and community college - Mission Valley ROP and Ohlone College.</p>
<p>NETLAB+ - Have you seen all the courses that can be supported by NDG NETLAB+? (Room 1029)</p>	<p>Rich Weeks NDG</p>	<p>During the session we will cover all of the courses and programs supported by NDG NETLAB+. We will discuss courses from the Cisco Networking Academy, Cyber Security, EMC Academic Alliance, Linux Professional Institute, VMware IT Academy and others.</p>
<p>A Day in the Life of Multi-Area OSPF (Room 2027)</p>	<p>Mark Anderson WASTC_Instructor Trainer</p>	<p>Understanding Multi-area OSPF should not be difficult. In this session we are going to step into the world of a router named "Sam" and a few of his cross town friends. They live in multiple areas of a networked county called OSPF. During their day you will see how they meet neighbors, share information and work together to help rest of the community get around. Come join us on this adventure. You might want to bring your laptop.</p>
<p>IPv6 Introduction to IPv6 Address Types, Address Allocation and ICMPv6 (Room 2015)</p>	<p>Rick Graziani Cabrillo College Author</p>	<p>This session begins with a brief overview to the structure of an IPv6 address and the different types of IPv6 addresses. The focus will be on global unicast addresses (GUA) and link-local addresses. This session includes an introduction to how IPv6 addresses can be assigned both statically and assigned dynamically using SLAAC (Stateless Address Autoconfiguration) and DHCPv6. We will also introduce the importance of ICMPv6 in both address allocation and the neighbor discovery process, similar to ARP for IPv4.</p>

BREAKOUT SESSION 2 - Thursday 11:45 - 1:00

<p>New To the Cisco Academies (Room 1002)</p>	<p align="center">WASTC Staff</p>	<p>Come learn how the Networking Academy delivers a comprehensive, 21st century learning experience to help students develop the foundational ICT skills needed to design, build, and manage networks, along with career skills such as problem solving, collaboration, and critical thinking.</p>
<p>CCNA Supplemental Materials in PT (Room 1005)</p>	<p align="center">Bob Samson WASTC Instructor Trainer</p>	<p>This session will involve basics of the Packet Tracer Activity Wizard. Some topics include: Design strategies. How do you unlock an Activity? How do Variables work? How can you create your own Activity? Tips & tricks that save you time. Sample Activity files will be for CCNA-1 & CCNA-2 Mid-terms, Skills Exams & Case Studies. Flash drives strongly suggested.</p>
<p>Internet Engineering 1 & 2 A-G Workshop (Room 1015)</p>	<p align="center">Ben Crosby WCCUSD, David Bayne, Yolo County ROP</p>	<p>Internet Engineering 1 and 2 are the UC approved A-G high school courses using the Cisco Academy CCNA1 Introduction to Networks and CCNA2 Routing and Switching Essentials. Come learn, from the writers, on how to get your courses approved as well.</p>
<p>LPI Academy and the Linux Advantage (Room 1029)</p>	<p align="center">Ross Brunson</p>	<p>The demand for Linux and Open Source skills are at an all-time high. Employers and recruiters are offering more incentives than ever for qualified candidates. You can sign up at NO COST to the LPI Academy and begin guiding your students onto the professional pathway to a lucrative and fascinating career in Linux and Open Source. The LPI Academy is designed to help academic institutions and instructors teach Linux.</p>
<p>Is Teaching Wireless in Your Future? (Room 2027)</p>	<p align="center">Bill Saichek Professor, Computer Science and Information Systems Orange Coast College, Costa Mesa, CA</p>	<p>This presentation will provide a glimpse into the new wireless curriculum being developed by the Convergence Technology Center. During the session we will cover the basics of wireless networking, the latest WiFi technology; 802.11n, the future 802.11ac (Gigabit WiFi), teaching tips/tricks/hints for wireless; hand-on exercises you can do in your classes, CWNA certification and, the Achilles Heel of wireless networking ... security.</p> <p>The presentation will include several practical demonstrations and hands-on activities, including using DD-WRT, an open-source firmware replacement for SoHo routers to create a complex set of wireless bridges.</p>
<p>Troubleshooting Tickets (Room 2015)</p>	<p align="center">Karen Alderson Regional Technical Manager - USA/Canada, Corporate Affairs Echo Rantanen Technical Manager - USA/Canada, Corporate Affairs</p>	<p>Did you know that 20% of the CCNA Routing & Switching certification focuses on troubleshooting? Explore the concept of troubleshooting tickets to enforce and enhance troubleshooting skills in your students. We will present multiple troubleshooting tickets and complete a portion of them during the session.</p>

BREAKOUT SESSION 3 - Thursday 2:00 - 3:15

<p>How to Design a PT Activity & Gamification of PT (Room 1002)</p>	<p>Bob Schoenherr [Karen Alderson // Echo Rantanen]</p>	<p>Come hear from Packet Tracer guru Bob Schoenherr. Bob is the WorldSkills liaison, the content developer for NetRiders, Netspace Challenge and Pursuit, developer of academy competition toolkits, and technical lead for the Cisco student advocacy team. Learn more about the activity wizard and how to author and share activities. Learn about Packet Tracer games and how to use PT games in your classes.</p>
<p>Incorporate "added -value" activities in the IT-E course to help your students be Job Ready (Room 1005)</p>	<p>Sharon Hain WASTC Instructor Trainer Mesa Community College</p>	<p>This session will show you how to incorporate activities in the IT Essentials curriculum to help your students be more than A+ certified. They should be job ready!</p>
<p>I.T. Projects, a Solutions Provider Perspective (Room 1015)</p>	<p>Stephen Monteros, VP of Business Development and Strategic Initiatives, SIGMANet</p>	<p>SIGMANet has partnered with some local Cisco Academy Schools and have hired students with great success. Come hear about the company, their strategies, their customers, their partners and a few specific wins/projects over the past year and how their engineering talent has helped secure and grow this business, especially Cisco Academy students. Academy students will be discussing their relationship with Cisco, their Academy and SIGMANet, how this has helped them and what they are doing today.</p>
<p>Cloud Computing 101: How do I add it to my ICT classes? (Room 1029)</p>	<p>Rick Watson VMWare [Rich Weeks, Jared Baker, Bill Saicheck]</p>	<p>Every ICT Instructor knows cloud computing is the new paradigm, but most don't understand it well. This session examines concepts such as public cloud, private cloud, hybrid cloud, and community cloud. We sort through the alphabet soup of PaaS, SaaS, IaaS, and DaaS or VDI and explain the basic cloud concepts of multi-tenancy, snapshots, fenced networks, linked clones, and more. The concepts help your student achieve CompTIA Cloud, EMC CIS, and VMware Data Center and Cloud Associate certifications.</p>
<p>Using Wireshark in CTE with CCNA labs: How, What and Why (Room 2027)</p>	<p>John Gonder Professor Los Positas College</p>	<p>Wireshark is the most widely used packet capture and analysis tool on the planet. This presentation concentrates on case studies and labs for CCNA, and links to the same for VMware, VoIP, IT-E and HIN. Wireshark shows important concepts clearly and teaches important skills. It's simple to use. Pre-made trace files, step by step PDFs and sample labs will give you resources to plug in at important stages throughout the semester.</p>
<p>Teaching Voice over IP on the Cheap (Room 2015)</p>	<p>Bill Saicheck Professor, Computer Science and Information Systems Orange Coast College, Costa Mesa, CA</p>	<p>Teaching Voice Over IP (VoIP) can be daunting with different vendors, requiring large investments in hardware and software. But, basic VoIP concepts, such as QoS, CODECs, etc. are the same regardless of the vendor platform. Add to that the emergence of SIP (Session Initiation Protocol) as an IETF standard for VoIP and we have the foundation of a generic VoIP program that can be setup very inexpensively. This session will show how an open source VoIP server, Asterisk, can be installed and configured. Coupled with using a combination of "Softphones" (computers running free VoIP phone software) and inexpensive SIP phones a very complete VoIP classroom environment can be built.</p>

BREAKOUT SESSION 4 - Thursday 3:30 - 4:45

<p align="center">The Tools of the Trade CCNA & IT-E (Room 1002)</p>	<p align="center">Brent Knox SigmaNet</p>	<p>Equipment and best practices required for ITE, CCNA, CCNA-Wireless, CCNA-Voice. Building a mini-CCIE lab for your CCNA/CCNP students using Cisco, Wireshark and Fluke Networks. Lab demonstration with Wireless site survey and tools, additional packet generation and cable qualification for video and voice over IP demonstration. Teach your students to troubleshoot and remedy issues with additional tools with minimal impact on network usage.</p>
<p align="center">NetSpace - Above and Beyond (Room 1005)</p>	<p align="center">Dwight Osborne</p>	<p>The Cisco NetSpace online learning environment combines best-of-breed cloud-based applications for teaching, learning, and collaboration. Come learn how to enable an interactive and engaging learning experience that aligns with the latest educational models, trends, and best practices.</p>
<p align="center">PACT Jobs Panel (Room 1015)</p>	<p align="center">John Bjerke Cisco Academy Area Academy Manager for the West</p>	<p>Come learn about Cisco's PACT - Partners + Academies = Connection for Talent. PACT is a new mentorship and hiring opportunity for Cisco partner companies. Cisco PACT is a bridge connecting Cisco Partners with Cisco Networking Academy graduates - the dedicated IT talent needed for business success. Come see how Cisco is preparing students for tomorrow's workforce!</p>
<p align="center">EMC Academic Alliance's Storage and Cloud Courses Supported by NDG's NETLAB+ (Room 1029)</p>	<p align="center">Kim Yohanna EMC</p>	<p>The need for ICT students to learn about storage and cloud computing has become mainstream in the era of server virtualization and the deployments of cloud infrastructures. In this session, you learn about the: Four technology-based courses (storage, cloud, big data analytics and backup & recovery) and the benefits available through the EMC Academic Alliance program; and the online ISM and CIS labs available through our partner, NDG.</p>
<p align="center">IPv6 Dynamic IPv6 Addressing using SLAAC, DHCPv6 and DHCPv6-PD (Room 2027)</p>	<p align="center">Rick Graziani Cabrillo College Author</p>	<p>This session describes the operation and configuration of using Stateless Address Autoconfiguration and DHCPv6 for automatically assigning IPv6 addresses. The Router Advertisement (RA) message will be discussed along with the operations and configuration of stateless and stateful DHCPv6. We will also discuss how DHCPv6-PD is used to provide home routers an IPv6 address to allocate to devices within the home LAN. There will also be a brief overview of security features that can be implemented for protection from RA and DHCPv6 spoofing in an enterprise network.</p>
<p align="center">Ether Channel & Layer 3 Switching (Room 2015)</p>	<p align="center">Bob Samson WASTC Instructor Trainer Mesa College</p>	<p>This session will address two different switching concepts. Ether-Channel will present the concepts of grouping interfaces together to increase bandwidth; configuration options; and Layer 3 Switching will highlight the differences between traditional Layer 2 switches and Layer 3 switches. This involves more than just having an IOS that supports routing - it may actually make the routing process 100 times faster. Sample configurations and Packet Tracer activities suitable for classroom use will be included.</p>

BREAKOUT SESSION 5 - Friday 10:15 - 11:30

<p>Internet of Everything (Room 1002)</p>	<p>Karen Alderson Echo Rantanen USA/Canada, Corporate Affairs</p>	<p>Learn how the Internet of Everything (IoE) is being implemented within Cisco Networking Academy. We will focus on the background of the IoE project, review curriculum and labs and present the plans for future IoE curriculum development.</p>
<p>Lights Camera, Network! Video Production for Distance Learning (Room 1005)</p>	<p>Robert Bunge Professor DeVry, Seattle Campus</p>	<p>As students are turning more and more to online videos to get their technical information, have you considered producing your own content videos? Thanks to improved technologies and lower price points, the equipment needed for video production is more obtainable than ever. But if you had the equipment (you don't need much!), what would be the best way to use it? Over the past two years, the presenter has been involved with both low- and high-budget video productions for the network security curriculum and will draw from these experiences to help you find your own point of entry for content video production.</p>
<p>Pathways to Learning Cybersecurity Through Competitions (Room 1015)</p>	<p>Dan Manson, CISSP, Department Chair in Computer Information Systems at Cal Poly Pomona</p>	<p>This presentation describes opportunities for students to learn Cybersecurity through competitions, beginning in middle school, and how middle schools, high schools and colleges can develop an environment that supports a pathway of learning through competitions.</p>
<p>Goodbye work PC! It's BYOD now (Room 1029)</p>	<p>Rick Watson VMWare [Rich Weeks, Jared Baker, Bill Saichack]</p>	<p>As the boundary between consumer and corporate IT technologies fades away, end users expect more flexible access to applications and data across devices and locations. The attraction of BYOD (Bring Your Own Device) is easy to understand. Smartphones and tablets offer an unprecedented level of flexibility, and when employees or students buy their own devices, the organization can save hardware and IT support costs. This session examines how VMware's virtual workspace provides end users with a central hub for accessing desktops, applications, services and files on-demand. This virtual workspace is an innovative one-stop shop for end users to seamlessly access the resources they need (when and where they need them) in a secure, contextually aware and policy-driven manner.</p>
<p>Using Wireshark in CTE with VMWare, VoIP, IT-e and HIN labs: How, What and Why (Room 2027)</p>	<p>John Gonder Professor Los Positas College</p>	<p>Wireshark is the most widely used packet capture and analysis tool on the planet. This presentation concentrates on case studies and labs for VMWare, VoIP, IT-E & HIN, and links to the same for CCNA. Wireshark shows important concepts clearly and teaches important skills. It's simple to use. Pre-made trace files, step by step PDFs and sample labs will give you resources to plug in at important stages throughout the semester. BYOL and follow along, or just absorb; it's fun, and the packets always tell it like it is</p>
<p>A-G IE 1 & 2 Submission Workshop (Room 2015)</p>	<p>Ben Crosby & David Bayne</p>	<p>Submit your CCNA1 and/or CCNA2 class for A-G credit. Work with successful course authors Ben and David and get your courses approved for the next school year.</p>

BREAKOUT SESSION 6 - Friday 11:45 - 1:00

<p>CompTIA & Education (Room 1002)</p>	<p>Allan Rowland Business Development Manager - Education CompTIA</p>	<p>IT careers start with the right education. CompTIA E2C can help your institution deliver the curriculum that prepares students for success. It is a membership program for institutions that offer IT education and training. Come hear about the goal of CompTIA E2C and how to help train, certify and upgrade the skills of your IT students</p>
<p>SkillsUSA and the Cisco Academy (Room 1005)</p>	<p>David Bayne</p>	<p>The SkillsUSA Internetworking contest began in 1999. It has grown into one of SkillsUSA premiere Competitions Sending competitors to the World Skills event. Come hear about SkillsUSA, their competitions, and how the Cisco Networking Academy helps to prepare student to compete.</p>
<p>ICT Model Curriculum Roundtable (Room 1015)</p>	<p>Richard Grotegut WASTC ASC/ITC Professor Ohlone College</p>	<p>Come hear about Academic Senate for California Community Colleges efforts to meet the transfer needs for ICT (Cisco Academy) students and the resulting "Model ICT Curriculum" they hope to standardize, build momentum to disrupt inertia at transfer universities, and help create associate's and transfer degree programs that will equip CCC, CSU and UC graduates with the comprehensive skill set that the ICT industry wants them to have.</p>
<p>"LPI Linux Essentials Certificate of Achievement" Certification Test-Free (Room 1029)</p>	<p>Ross Brunson LPI Academy</p>	<p>This Test is normally \$110 and only offered at a VUE testing Center. You have the opportunity to take this Certification test for FREE the last day of the Pre Conference or during the Regional Academy Conference [date and time to be decided]. You do not need to be part of the Pre-Conference to take advantage of this offer, but you must be registered and present to participate.</p>
<p>To Infinity & Beyond If you use HSRP (Room 2027)</p>	<p>Mark Anderson WASTC Instructor Trainer Professor</p>	<p>Learning HSRP can be fun in the classroom. In this session we will look at one way to make the configuration and verification of HSRP entertaining. We will also compare the difference between configuring HSRP using routers and layer 3 switches. You might want to bring your laptop.</p>
<p>PT Open Lab Practice your skills (Room 2015)</p>	<p>Bob Samson WASTC Instructor Trainer</p>	<p>This session will be for general Packet Tracer questions, help with activities, and CCNA-3 & CCNA-4 Mid-terms, Skills Exams & Case Studies. Flash drives and lap tops strongly suggested.</p>



**Information Communications
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