

Date	Topic Name	Time Slot	Location	Speakers	Description
09/23/2024	SCTE® Broadband Fiber Installer Boot Camp (separate registration required)	9:00 AM to 5:30 PM EST			<ul style="list-style-type: none"> Based on SCTE's BFI course and taught by an industry-certified expert Equips learners with the expertise required to earn SCTE's nationally recognized BFI professional certification Includes a hands-on vendor presentation and an instructor-led tour of the TechExpo floor during show hours Includes registration for the online BFI course and professional certification exam <p>SCTE Members \$250 Non-Members \$350</p> <p>Registration includes lunch and coffee breaks during the daylong training. <u>Registration does not include access to TechExpo; a separate registration is required.</u></p> <p>Register here</p>
09/23/2024	SCTE® Standards Program Interface Practices Subcommittee (IPS) Plenary	1:00 PM to 3:30 PM EST	B315		Open to all members of the SCTE Standards program. To attend as a guest, please contact admin@standards.scte.org before the meeting.
09/23/2024	The Human Factor Masterclass: Cultivating Your Ideation Toolkit and Innovation Mindset	2:00 PM to 3:30 PM EST		<p>Phil McKinney CEO CableLabs</p> <p>Lisa Schwab Director of Strategic Growth Engagement CableLabs</p> <p>Todd Bryan Principal Strategist CableLabs</p> <p>Michelle Vendelin Director, Innovation Services & Coaching CableLabs</p> <p>Hans Geerdes Principal Strategist CableLabs</p>	<p>Boost your creative confidence to tackle tough problems and generate innovative ideas</p> <p>Develop a robust ideation practice with tools and techniques for physical, digital, and Generative AI ideations</p> <p>Engage in practical, hands-on group activities to solve industry challenges and walk away with actionable solutions</p> <p>Bring your laptop and preferred Generative AI application—let's innovate together!</p>
9/23/2024	Peeking Into the Future	3:00 PM - 4:30 PM	B302		<p>Showcasing the latest innovative learning solutions that redefine the standards of our services and products</p> <p>Ensuring solutions meet real-world needs and expectations</p> <p>Future insights: features, enhancements, and new offerings</p> <p>To request an invitation, please contact the SCTE Learning & Development team.</p>

9.23.2024	Cable TV Pioneers 58th Annual Banquet	6:00 PM - 10:00 PM EST			Separate event ticket purchase required Event details can be found here .
9.24.2024	Light Reading Breakfast: Making the Most of Cable and Fiber	7:30 AM - 8:50 AM EST		<p>Jaimie Lenderman Research Manager and Principal Analyst Omdia</p> <p>Damian Poltz Senior Vice President, Wireline Networks Rogers Communications</p> <p>Erik Kuhlmann Sr. Director, Engineering & Architecture, Planning & Design GCI</p>	<p>Facing escalating competition from both fiber-to-the-home (FTTH) and fixed wireless providers, cable operators are increasingly pursuing a dual strategy – upgrading their legacy hybrid fiber-coax (HFC) networks in some areas while building new fiber networks in others. At the same time, cablecos are deploying a slew of next-gen technologies — ranging from DOCSIS 4.0 to XGS-PON to Distributed Access Architecture (DAA) to spectrum mid-splits and high-splits to network virtualization to network automation — to maximize the benefits of both their HFC and FTTH platforms.</p> <p>But this transition to next-gen networks is not a simple process as cable technologists grapple with the hefty challenges of their massive plant upgrades. These challenges include network reliability, scalability and powering issues, equipment replacement and upgrades, high capital expenses and unprecedented operational complexity. What upgrade strategies and techniques are operators and vendors developing and deploying? Which ones are working out so far and why? What obstacles are operators and their tech partners encountering? How are they attempting to overcome these hurdles?</p>
9.24.2024	Chapter Leadership Breakfast	7:30 AM - 8:45 AM EST	B302		The chapter leaders that help support and run the over 60 SCTE local chapters are invited to join us for breakfast. Chapter leaders will be able to network with other chapters and learn the latest happening at SCTE.
9.24.2024	Opening Headliners	9:00 AM - 10:30 AM EST	Murphy Ballroom - Main Stage	<p>Balan Nair President and Chief Executive Officer Liberty Latin America</p> <p>Phil McKinney CEO CableLabs</p> <p>Julie Laulis Chair of the Board, President and Chief Executive Officer Cable One</p> <p>Ken Johnson Chief Operating Officer Cable One</p> <p>Mark Greatrex President Cox Communications</p>	TechExpo headliner speakers are leaders setting the bold vision to shape the world of broadband connectivity and the workforce powering it. During this session, SCTE will honor the outstanding achievements in our industry over the past year, including the recognition of the SCTE Member of the Year.

				ns Maria Popo President and CEO SCTE Nicole Scoble-Williams Partner, Global Future of Work Leader Deloitte	
9.24.2024	Technology Policy GenAI: Risks and Benefits	10:45 AM - 11:45 AM EST		Russell Hanser Deputy Chief Legal Officer NCTA – The Internet & Television Association	Over the past two years, generative artificial intelligence – GenAI – has raced from the periphery of tech policy debates to the center of Americans' daily lives. "Synthetic" AI-generated content can be virtually indistinguishable from "authentic" content created by humans, giving rise to great benefits and great risks. The rise of GenAI raises critical policy questions regarding a host of topics, from the political, economic, security, and other threats posed by mis- and dis-information to creators' intellectual property rights in the works used to "train" AI models to the impacts of "deepfakes" and synthetic content on public trust. This panel of government and academic experts will address the cutting-edge policy issues raised by GenAI, discussing how we can best harness this technology's many benefits while mitigating or eliminating associated risks
9.24.2024	Exhibition Open	10:45 AM - 6:00 PM EST			
9.24.2024	The Human Factor Interview: AI and the Future of Learning	11:00 AM - 11:30 AM EST	The Loft	Jill Banks Director, Learning Operations SCTE Dr. Keith McGreggor Professor of the Practice Georgia Tech	Understanding the potential role of AI in learning and development Exploring how AI is reshaping how we learn, train, and develop skills Lessons learned: How to implement AI across your training and development needs
9.24.2024	The Human Factor AI Unleashed: Practical Strategies for Your Organization	11:30 AM - 12:10 PM EST	The Loft	Rodney Richter Chief Technologist HPE Wayne Coyle Director of Service Delivery Adrentech Dr. Mark Burke Senior Director, Learning Strategy Judge Learning Solutions Kelli Southern AVP, Talent and	Examining strategies to effectively integrate artificial intelligence into the workforce Exploring how to structure AI initiatives: Securing executive buy-in Overcoming resistance to change Setting up dedicated AI teams and partnerships Gaining insights on emerging trends to harness AI's potential within organizations effectively

				Skills Cox Communications Erica Yin Director, Watsonx IBM	
9.24.2024	Women's TechConnect Program Graduation Lunch	12:00 PM - 2:00 PM	B301		The TechConnect initiative — developed collaboratively by Women in Technology awardees, The WICT Network and SCTE®, a CableLabs® subsidiary — seeks to educate and retain women who work in technology-related positions within the media and entertainment industry. The year-long program pairs senior-ranking women executives in the technology field with ambitious mid- and entry-level professionals. This event represents the end of the 2023-24 program. Attendance is invite-only.
9.24.2024	Wireless & Convergence Everything You Ever Wanted to Know About Fixed Wireless Access (FWA)... but Were Afraid to Ask!	12:30 PM - 1:45 PM EST		GS Sickand VP of Wireless Engineering Cox Dr. Roy Sun Ph.D., Principal Architect CableLabs Dorin Viorel Distinguished Technologist CableLabs	Experimental FWA MIMO Capacity Analysis in 6 and 37 GHz Bands Determining the extent to which FTW can meet the ever-increasing demand for capacity Investigating the capacity enhancement potential of multiple-input-output (MIMO) systems Lesson learned: key findings and potential implications for the cable industry Roy Sun Ph.D., Principal Architect CableLabs Fixed Wireless Access Propagation Challenges Evaluating the capability of FWA to deliver broadband wireless services effectively in terms of: network coverage performance economic viability Exploring radio propagation channels to enable measurement campaigns across various FWA scenarios Reviewing results and models to evaluate and optimize the performance and coverage of FWA networks Dorin Viorel Distinguished Technologist CableLabs
9.24.2024	Wireline Network Evolution Your Network is Talking, Please Listen	12:30 PM - 1:45 PM EST		Brady Volpe CPO OpenVault Larry Wolcott Comcast Fellow Comcast Mr. Mike O'Dell Distinguished Engineer Comcast Belal Hamzeh Vice President, Technology & System Engineering Comcast	Maximizing Upstream Spectral Efficiency: Bonding Groups That Make Sense Maximizing the upstream received power spectral density by creating upstream bonding groups Understanding how to correlate to the offered upstream service tiers and assign cable modem to an upstream bonding group that correlates to the customer's provisioned service tier Analyzing the simulation and experimental results Belal Hamzeh Vice President Technology & System Engineering Comcast The Proactive Network Maintenance (PNM) Comeback: OFDM and OFDMA Brings New, Laser-Guided Precision to Plant Fault Distancing Deep dive analysis of actual plants: examining which conditions cannot

					<p>evade high-resolution proactive network maintenance (PNM)</p> <p>Reviewing the entire process of collecting, decoding, and analyzing PNM data</p> <p>Developing a simplified approach to OFDM phase correction routine</p> <p>Lessons learned: tips and tricks emerging PNM technology</p> <p>Larry Wolcott Comcast Fellow Comcast</p> <p>Qualifying Network Performance and Impairment Priority in Modern DOCSIS® Networks</p> <p>Determining when an RF impairment in the network impacts the subscriber base</p> <p>Using new technique for evaluating impairments to re-rationalize the network performance and so mobilize the workforce</p> <p>Exploring new ways of describing the performance of the network using a single figure of merit</p> <p>Diagnosing the operational health of the network to prioritize labor based on the level of impairment impacting the network at the service level</p> <p>Mike O'Dell Distinguished Engineer Comcast</p>
9.24.2024	<p>Operations, Construction & Network Planning</p> <p>Go with the Flow: Upstream</p>	12:30 PM - 1:45 PM EST		<p>Mike Darling Principal Network Engineer Rogers Communications</p> <p>James Medlock Founder and CEO Akleza, Inc.</p> <p>Jonathan Leech Principal Engineer II Comcast</p> <p>Frank Wade Senior Manager, Technical Research and Development, Access Engineering Comcast - CONNECT</p>	<p>OFDMA in Action: Real-World Strategies for Hyper-Scaling Success</p> <p>Reviewing the Impact of expanding OFDMA deployments</p> <p>Exploring how OFDMA enablement and expansion across DOCSIS® 3.1 devices on HFC can improve upstream capacity</p> <p>Embracing OFDMA to improve customer experience and paving the way for DOCSIS® 4.0 deployments</p> <p>Lessons learned: Tools and processes leveraged, and improvements experienced</p> <p>Frank Wade Senior Manager, Technical Research and Development, Access Engineering Comcast</p> <p>Upstream Triggered Spectrum Capture: Lessons Learned from Deployment at Scale</p> <p>Examining the evolution of Upstream Triggered Spectrum Capture (UTSC) tools and exploring aspects of:</p> <p>Fast Fourier Transform (FFT) Strategies for signal/noise classification Forward Error Correction (FEC) rates Modulation Error Ratio (MER) Heatmap displays</p> <p>Exploring the possibility of using Artificial Intelligence (AI) and Machine Learning (ML), and correlation to Upstream Data Analyzer (UDA) events</p> <p>Lessons learned: Insights and recommendations</p> <p>Jonathan Leech Principal Engineer II Comcast</p> <p>Smart Amplifier Ingress Noise Localization – An Integrated Solution Leveraging PNM</p> <p>Examining SCTE 279 as a standard for a new Smart Amplifier and SCTE 283 as an associated information model providing a number of monitoring and control functions</p> <p>Leveraging the integration of PNM Upstream Triggered Spectrum Capture, HFC plant topology data, and existing standalone wink</p>

					<p>switches managed by an SCTE 283 compliant interface to localize ingress noise events</p> <p>Examining and meeting the challenge of implementing these solution when considering intermittent and short-lived noise bursts, HFC plant topology discovery, and the impact on cable modems related to available transmit headroom</p> <p>James Medlock Founder and CEO Akleza Inc.</p>
9.24.2024	<p>AI & Automation</p> <p>Making the Most of AI in Broadband Networks</p>	12:30 PM - 1:45 PM EST		<p>Dr. Jennifer Andreoli-Fang Head of Fixed Networks AWS</p> <p>Karthik Sundaresan Distinguished Technologist & Director of HFC solutions CableLabs</p> <p>Marco Gagliostro Manager, PON Technology and Enterprise Network Operations Rogers Communications</p> <p>Roy Pereira Assistant Vice President, Digital Service Cox Communications</p>	<p>A Telecommunication Engineer's Guide to Applied Artificial Intelligence</p> <p>Developing an optimal strategy to deploy AI: What AI technologies are viable?</p> <p>Identifying optimization opportunities and efficiencies whilst pinpointing potential roadblocks</p> <p>Navigating the implementation process and ensuring you have the data needed for effective models and successful solutions</p> <p>Roy Pereira Application Development BSS Digital Service Cox Communications</p> <p>A Beginner's Guide to Network Automation for FTTH Networks</p> <p>Getting back to basics: What cultural shifts are needed to build an organization and mindset that embraces automation?</p> <p>Implementing best practices to kick-start your automation journey: Skills, collaboration, KPIs, training</p> <p>Exploring tools, methodologies, architectures and functionalities to ensure a successful roadmap for network automation</p> <p>Marco Gagliostro Manager, PON Technology and Enterprise Network Operations Rogers Communications</p> <p>Edge Intelligence: Enabling Distributed ML Applications in Cable Networks</p> <p>Understanding how to facilitate distributed edge intelligence on DOCSIS® network equipment, cable modems (CMs) and gateways</p> <p>Exploring the potential of extending edge intelligent to other devices (distributed access architecture (DAA nodes or amplifiers)</p> <p>Developing an architecture to support this deployment model</p> <p>Implementing security mechanisms and APIs to enable functionality</p> <p>Karthik Sundaresan Distinguished Technologist & Director of HFC solutions CableLabs</p> <p>Moderator Jennifer Andreoli-Fang Senior Manager, North America Telecom, Service Providers Cloud Architecture AWS</p>
9.24.2024	<p>The Human Factor</p> <p>Driving Employee Performance: Exploring Training Impacts through</p>	12:30 PM - 12:50 PM EST	The Loft	<p>Abbie O'Dell Senior Director, Learning Services - Field Operations Charter Communications</p>	<p>Creating meaningful measures of the learning experiences that are critical to employee business success</p> <p>Analyzing a performance dashboard that combines employee performance and training data</p> <p>Determining whether the data provides the desired business impact to learning and operational leaders</p>

	Business Metrics				
9.24.2024	<p>Technology Policy</p> <p>Spectrum Policy: (Re-)Shaping Network Technologies, A Demand-side Conversation</p>	12:45 PM - 1:45 PM EST		<p>Mark Walker VP, Technology Policy CableLabs</p> <p>Flynn Rico-Johnson Policy Advisor, Wireless, Space, and International Federal Communications Commission</p> <p>Monisha Ghosh Professor University of Notre Dame, Department of Electrical Engineering</p> <p>Charles Cooper Associate Administrator, Office of Spectrum Management National Telecommunications and Information Administration</p>	<p>Spectrum is a key enabler of convergence and the vision of seamless, ubiquitous connectivity. Today and for the foreseeable future, Wi-Fi will remain the workhorse to provide connectivity to devices and applications in both homes and enterprises</p> <p>The emergence of new and promising broadband technologies, such as LEO and 5G/6G fixed wireless access, are similarly reliant on additional spectrum to provide increased performance</p> <p>The panel of government and academic experts will explore how to avoid a zero-sum game and ensure spectrum access isn't the gatekeeper on developing new and innovative services</p>
9.24.2024	<p>Security & Privacy</p> <p>We Are Not Immune from Attacks and Responsibility</p>	12:50 PM - 1:45 PM EST		<p>Brian Scriber Distinguished Technologist and VP of Security and Privacy Technologies CableLabs</p> <p>Shivam Gupta Security Engineer Cantata Health Solutions</p>	<p>Ransomware, Incident Reporting, and the Critical Infrastructure Designation for Cable Networks</p> <p>Exploring the reality and addressing the expectations of having the designation of 'Critical Infrastructure'. What changes in government relationships can network operators expect over the next few years?</p> <p>Operating in a shifting regulatory environment – how to best prioritize efforts?</p> <p>Understanding and meeting the operational and reporting requirements related to technical and supply-chain threats.</p> <p>Brian Scriber Distinguished Technologist and VP of Security and Privacy Technologies CableLabs</p> <p>Safeguarding Machine Learning Systems: A Comprehensive Analysis of Security Concerns and Defensive Strategies</p> <p>Examining the security concerns in machine learning – what are the associated threats?</p> <p>Exploring and addressing potential vulnerabilities</p> <p>adversarial attacks model inversion attacks data poisoning attacks Understanding the importance of proactive security measures</p>

					robust model validation secure data handling protocols ongoing monitoring for anomalous behavior Developing future directives for enhancing security methodologies and approaches Shivam Gupta Network Specialist Media Communications Corporation
9.24.2024	¿Pueden extenderse los beneficios de las arquitecturas distribuidas a los despliegues de pon? Un enfoque latinoamericano	1:45 PM - 2:05 PM EST	The Loft	Marcela Martinez Sr Engineer Access Network Planning Claro Colombia	Casos de Uso de Remote OLT Ventajas y Desventajas de la arquitectura de Remote OLT Sinergias entre las redes de HFC y FTTx Please note this session will only be conducted in Spanish.
9.24.2024	AI & Automation Generative Artificial Intelligence and Its Impact on the Cable Industry – Spanish	1:45 PM - 2:05 PM EST	The Loft	Dr. Claudio Righetti Director of the Artificial Intelligence Department Universidad Austral	Understanding the framework for GenAI and outlining its current scope and limitations Exploring the applications determining the differences between systems based on GenAI and those using state-of-the-art traditional AI
9.24.2024	Technology Policy National Spectrum Strategy Multistakeholder Process and Status	2:00 PM - 3:00 PM EST		Traci Biswese Vice President and Associate General Counsel NCTA – The Internet & Television Association	The National Spectrum Strategy seeks to repurpose and open over 2700 MHz of spectrum for commercial wireless use. The government's initial focus is on studying the potential repurposing of Lower 3 GHz and 7 GHz National Telecommunications and Information Administration (NTIA) recently launched a multistakeholder process to implement the National Spectrum Strategy Implementation Plan Federal agency experts will explore the plan's key components, including timelines, responsible agencies, and stakeholder engagement regarding the Lower 3 GHz and 7 GHz bands
9.24.2024	Wireless & Convergence Track Keynote: Seamless Migration: A Case Study in Transferring the Wireless Customer	2:00 PM - 2:20 PM EST		Aamir Hussain SVP, Chief Technology and Product Officer Liberty Latin America	Examine the complex project of migrating 1.1 million wireless customers in Puerto Rico and the US Virgin Islands from another network to Liberty Latin America's subsidiary, Liberty Puerto Rico The challenges faced, such as building a new IT infrastructure, establishing a 5G network core, and coordinating the migration avoiding customer disruption Delve into the valuable lessons learned, including the importance of expertise, a comprehensive plan, and prioritizing both technical and operational requirements for a successful large-scale customer migration
9.24.2024	Network-as-a-Service API-Powered NaaS	2:00 PM - 3:15 PM EST		Israel Madiedo Innovation & Technology Director izzi (Televisa)	Towards a Federated Future: A Decentralized Framework for Global Developer Services Adopting standardized APIs to empower developers to create and build new services Understanding the benefits of a federated approach to developer registration, user authorization, and API access

				<p>De Fu Li Distinguished Engineer Comcast</p> <p>Christopher Aubut Principal Engineer II Charter Communications</p> <p>Shafayet Khan Lead Software Engineer CableLabs</p>	<p>Developing strategies to monetize API interactions while maintaining ownership and control of exposed network resources</p> <p>Advocating for the transformation of the delivery of developer services to foster innovation and a new approach to connectivity: What is the vision and how should the industry respond?</p> <p>Christopher Aubut Principal Engineer II Charter Communications</p> <p>vCMTS as a Service: Scalable and Extensible APIs</p> <p>Exploring the role of CAMARA as an enabler for NaaS</p> <p>Reducing operational complexity and engineering costs through cloud-native platforms</p> <p>Utilizing APIs to reduce the barrier for onboarding and expanding engineering talent to accelerate innovation</p> <p>De Fu Li Distinguished Engineer Comcast</p> <p>Quality by Design: Unveiling an Outcome-Focused Proof of Concept</p> <p>Determining the advantages Quality by Design (QbD): A framework offering standardized APIs based on the Quality of Outcome (QoO) and Quality Attenuation (QED)</p> <p>Equipping developers with insights and optimization tools for network adjustment through API-based automated workflows</p> <p>Utilizing predictive outcome scores and detailed root cause analysis to gain insights and apply real-time information to address network impairments</p> <p>Detailing steps to standardize Quality by Design APIs for industry-wide adoption</p> <p>Shafayet Khan Lead Software Engineer CableLabs</p> <p>Moderator Israel Madio Innovation & Technology Director Izzi</p>
9.24.2024	<p>Operations, Construction & Network Planning</p> <p>The What, Why and How of Using Digital Twins</p>	2:00 PM - 3:15 PM EST		<p>Greg White Distinguished Technologist CableLabs</p> <p>Mehul Patel Distinguished Architect Comcast</p> <p>Steve Condra Senior Engineering Director and Product Manager Teleste Intercept LLC</p> <p>Matthew Palma Senior Director, Emerging Technology Platforms &</p>	<p>Access Network Node Augmentation Optimization through an Operational Digital Twin Model of Fiber Node Plant Topology</p> <p>Applying digital twins to solve the problem of optimizing network capacity</p> <p>Examining how digital twin methodologies can inform crucial decisions to drive operational and cost efficiencies in augmentation projects</p> <p>Utilizing software components and data models within the platform to mirror those deployed in the operational access network</p> <p>Capitalizing on the digital twin opportunity for cost savings by ensuring that the augmentation plans produce an optimized network with minimum investment and maximum compatibility with existing software platforms</p> <p>Mehul Patel Senior Principal Architect Comcast</p> <p>Digital Network Twin: Setting a Foundation for Innovation</p> <p>Exploring how Broadband Equipment Identity (BEID) is creating a</p>

				<p>Growth Charter Communications</p>	<p>standard to pave the way for enhanced digitization and innovation</p> <p>Capturing real-time data to assist with the development of robust, future-proof networks</p> <p>Developing an architecture for an intelligence platform which allows data collection process, solution deployment</p> <p>Enabling future digital twin use cases through data foundations</p> <p>Matthew Palma Senior Director, Emerging Technology Platforms & Growth Charter Communications</p> <p>Evaluating Cable Network Inventory Methods: A Long-Term Scenario-Based Approach</p> <p>Developing a scenario-based approach for evaluating three topology maintenance methods</p> <p>Manual Semi-automatic using wink switches Advanced automatic network topology discovery.</p> <p>Using scenarios to understand how to assess their long-term effectiveness, adaptability, sustainability, and cost-efficiency</p> <p>Building a framework that enables informed decision-making in selecting a access network topology inventory maintenance strategy</p> <p>Considering future readiness and cost implications</p> <p>Steve Condra Senior Engineering Director and Product Manager Teleste Intercept LLC</p>
9.24.2024	<p>Wireline Network Evolution</p> <p>Getting the Download on FDX</p>	2:00 PM - 3:15 PM EST		<p>Dan Rice VP, Access Network Engineering Comcast</p> <p>Dr. Robert Howald Comcast Fellow Comcast</p> <p>Dr. Richard Prodan Engineering Fellow Comcast</p> <p>Marc Morrisette Sr. Principle Engineer, Access Networks Comcast</p>	<p>The First Anniversary of @Real10G – What Have We Learned?</p> <p>Offering backwards, current, and forward-looking perspectives on the launch of the world's first DOCSIS® 4.0 services</p> <p>Operationalizing the new technology and optimizing on the nature of innovation inherent in DOCSIS® 4.0 FDX</p> <p>Lessons learned: The unique development, integration, and field challenges of the 2023 launch target and how to prepare for scalability in 2024</p> <p>Robert Howlad Comcast Fellow Comcast</p> <p>Get Smart: FDX Amplifiers and Completing the Brilliant Network</p> <p>Examining the capability of FDX-capable Smart Amplifiers to transform network operations and visibility</p> <p>Deep dive on the essentials of FDX Smart Amplifiers including: FDX-enabling technology Cascaded performance Capacity and traffic engineering Activation and alignment automation The Amp software ecosystem Network diagnosis and reliability Lessons learned: the launch of DOCSIS® 3.1 in 2017, the future for DOCSIS®</p> <p>Marc Morrisette Senior Principle Engineer, Access Networks Comcast</p> <p>DOCSIS® 4.0 Profile Management Optimization – Moving Closer to Shannon Capacity</p> <p>Exploring the potential of DOCSIS® 4.0 to</p>

					<p>optimize upstream capacity Tailoring solutions to the DOCSIS® protocol and the increase in available capacity achievable in currently deployed cable systems Reviewing the benefits of such an approach Richard Prodan Engineering Fellow Comcast</p> <p>Moderator Dan Rice VP, CONNECT Technology Group Comcast</p>
9.24.2024	<p>Security & Privacy</p> <p>Bad Things Happen with Bad Passwords</p>	2:00 PM - 3:15 PM EST		<p>Mr. Jacob Prosser Director, Cybersecurity Cox Communications</p> <p>Dr. Golam Kayas Technical Research & Development Engineer Comcast</p> <p>Serhad Doken Chief Technology Officer Adeia</p>	<p>How to Address Unauthorized Broadband Sharing</p> <p>Examining the effectiveness of methods to detect if customers are engaging in broadband sharing Developing a new approach that leverages radio frequency network (RF), artificial intelligence (AI) and machine learning (ML) Understanding how to mitigate, discourage and prevent broadband sharing Serhad Doken Chief Technology Officer Adeia</p> <p>Customer Account Takeover Detection</p> <p>Implementing measures to monitor for suspicious activity How to identify suspicious activity by ingesting multiple signals Exploring how pre-defined baselines and user behavior analysis can determine if a user's account is compromised. Developing methods to respond to an account takeover Jacob Prosser Director of Cyber Defence Cox Communications</p> <p>Loose Bits Sink Gits: Unearthing Repository Secrets and Scanning Developer Trends</p> <p>Determining the effectiveness of entropy calculation and regex-based (static) scanners vs. artificial intelligence-based alternatives for authentication Assessing the extent to which AI-based solutions provide a higher accuracy structured secrets and unstructured secrets Developing an understanding of how new repositories may have fewer secrets and its implications Golam Kayas Technical Research & Development Engineer Comcast</p>
9.24.2024	<p>AI & Automation</p> <p>Adopting an AI-Powered Approach to Network and Capacity Planning, Part One</p>	2:00 PM - 3:15 PM		<p>Yvette Kanouff Partner JC2 Ventures</p> <p>Dr. Sebnem Ozer Distinguished Engineer Charter Communications</p> <p>Mohsin Afridi Lead Communications / Network</p>	<p>Enabling GAN Based Model to Produce Strong Long-Range Forecast</p> <p>Using Generative Adversarial Network (GAN) based models for accurate long-range forecasting: How does it compare to other models? Quantifying the data needed to produce a robust forecast Striking the right balance: Synthesizing an approach between GenAI and conventional methods Mohsin Afridi Lead Communications / Network Engineer Cox Communications</p> <p>Enhancing ISP Network and Service Optimization through Causal Inference and Knowledge Base Development</p>

				<p>Engineer Cox Communications</p>	<p>Understanding the limitations of current AI techniques to define cause-effect relationships</p> <p>Developing a two-step approach to pinpointing bottleneck links and identifying major causes within these links</p> <p>Applying a reinforcement learning-based model that can iteratively learn from experiment results to refine actions in resolving bottleneck issues</p> <p>Assessing the effectiveness of creating a simplified abstracted tandem model and exploring its limitations</p> <p>Developing a framework to empower ISPs in optimizing latency and enhancing network performance</p> <p>Sebnem Ozer Distinguished Engineer Charter Communications</p> <p>Moderator Yvette Kanouff Partner JC2 Ventures</p>
9.24.2024	<p>Wireless & Convergence</p> <p>Boosting the Performance and Reliability of Wireless Networks</p>	2:20 PM - 3:15 PM EST		<p>Charles Cheevers CTO, Home Networks Vantiva</p> <p>Dileep Kumar Soma Principal Wireless Engineer Charter Communications</p> <p>Kamaljit Bal Wireless Private Network Architect Rogers Communications</p>	<p>Leveraging Public Networks to Complement Delivery of High-Performance Private Networks</p> <p>Developing a hybrid approach to combining public and private networks that drives flexibility, boosts performance, optimizes cost efficiency and offers strategic advantages</p> <p>Understanding key considerations when implementing a hybrid strategy in terms of: application requirements traffic patterns security protocols compliance regulations partnerships and ecosystems</p> <p>Leveraging public networks to enhance private infrastructures' performance and resilience: Lessons learnt from use cases to date</p> <p>Kamaljit Bal Architect Rogers Communications Inc.</p> <p>Unleashing Multi-Gigabit Homes</p> <p>Assessing the viability of Wi-Fi 7 to meet the growing capacity demand of bandwidth-intensive applications</p> <p>Exploring the role of Multi-Link Operation (MLO) within Wi-Fi 7 to meet this demand</p> <p>Overcoming the limitations in terms physical barriers and distance and determining the effectiveness of Wi-Fi 7 extenders</p> <p>Lessons learnt – how can we maximize the range of multi-gigabit coverage</p> <p>Dileep Kumar Soma Principle Wireless Engineer Charter Communications</p> <p>Moderator Charles Cheevers CTO, Home Networks CommScope</p>
9.24.2024	<p>Wireline Network Evolution</p> <p>PNM Live!</p>	3:15 PM - 3:55 PM EST	The Loft		<p>The PNM Live! franchise continues with troubleshooting examples from the field. Come see how field technicians use Proactive Network Maintenance (PNM) to make it look easy, proactively finding and fixing problems before our customers are impacted. Our all-star panel of industry experts will provide insightful (and often entertaining) commentary.</p> <p>Reviewing troubleshooting examples from</p>

					<p>field technicians</p> <p>Using Proactive Network Maintenance (PNM) to proactively find and fix problems before customers are impacted</p> <p>Lessons learned: Insights and guidance</p>
9.24.2024	<p>Technology Policy</p> <p>Infrastructure Security: Integrating Zero Trust Across Core and Access Networks</p>	3:15 PM - 4:15 PM EST		<p>Jessica Almond Director, Technology Policy CableLabs</p>	<p>Adopting Zero Trust practices in both core and access networks provides long-term risk benefits as it shrinks perimeters, limits lateral movement to only authenticated and authorized services, and simplifies orchestration</p> <p>CableLabs [and the cable broadband industry] will provide an overview of the recently released CableLabs' Zero Trust and Infrastructure Security (ØTIS) Best Common Practices (BCP) document for infrastructure elements</p> <p>The BCP provides a consensus approach to the implementation of Zero Trust to ensure interoperable and reliable service delivery for operators. These common security practices embrace the Zero Trust concepts and help support convergence, automation and address evolving threats to network infrastructure</p> <p>Industry and government panelists will discuss the critical role of Zero Trust in networks and how Zero Trust will support a more secure delivery of broadband services</p>
9.24.2024	<p>Wireline Network Evolution</p> <p>Track Keynote: From the Cloud to the Home – a Smarter, Faster and Most Reliable Network Realized</p>	3:30 PM - 4:00 PM EST		<p>Elad Nafshi Executive Vice President, Chief Network Officer Comcast</p>	<p>To deliver the best-connected experiences to customers, today's networks need to be smarter, faster, more reliable and more resilient than ever</p> <p>How Comcast has achieved true end-to-end transformation for a fully AI-enabled network that is redefining connectivity and with it customer expectations</p>
9.24.2024	<p>Network-as-a-Service</p> <p>Containerization of the Cloud: Why, Where and How?</p>	3:45 PM - 5:00 PM EST		<p>Max Gasparroni VP Mobile Core – Mobile & Cloud Technology Liberty Global Technology Limited</p> <p>Nasir Ansari Network Architect Rogers Communications</p> <p>Pavan Chandrashekar Lead Data Engineer Cox Communications</p>	<p>Containerization and Services Lifecycle Management: Are We There Yet?</p> <p>Reviewing the effectiveness containerization and services lifecycle management models to accomplish the distribution of network functions to multiple physical locations</p> <p>Examining current implementations using containers</p> <p>Lessons learned: How can distribution of access Network Gateway Functions further improve service delivery, resilience, management and operations.</p> <p>Nasir Ansari Network Architect Rogers Communications Inc.</p> <p>Cloud-Native Approach to Automated Implementation of Network Strategy</p> <p>Developing strategies to exploit the increasing functionality of cloud-based solutions</p> <p>Integrating network models across your organization to create faster access to API development</p> <p>Leveraging increased predictive capabilities with machine learning platforms</p> <p>Examining strategies to deploy machine learning model at scale and explore</p>

					<p>further simplification through AI integration</p> <p>Pavan Chandrashekar Lead Data Engineer Cox Communications</p>
9.24.2024	<p>Adopting an AI-Powered Approach to Network and Capacity Planning, Part Two</p>	<p>3:45 PM - 5:00 PM EST</p>		<p>Yvette Kanouff Partner JC2 Ventures</p> <p>Vaibhav Phatarpekar Senior Software Development Engineer Comcast</p> <p>Jiten Patel Director Network Operations Altice USA</p> <p>Judy Brown Network Engineer II Cox Communications</p>	<p>Technology-Agnostic Reliability for HFC and FTTH</p> <p>Providers utilizing both fiber-to-the-home (FTTH) and hybrid fiber-coaxial (HFC) technologies results in a heightened demand for technology-agnostic data points for detecting reliability concerns</p> <p>While each network can be monitored independently, there are shared data points that apply to both</p> <p>Explore how technology-agnostic data presents a practical solution for identifying network impairments within FTTH and HFC infrastructures</p> <p>Jiten Patel Director Network Operations Altice USA</p> <p>From Art to Science: Designing Resilient Topologies by Quantifying Network Performance Under Duress</p> <p>Exploring different approaches to measure the resilience of logical topology designs</p> <p>Understanding which metrics to prioritize and the benefits of using a resiliency score</p> <p>Analyzing specific examples: greenfield deployments, managing uncertainty of shared risk link groups (SRLGs), and optimizing fiber additions/removals for existing physical topologies</p> <p>Vaibhav Phatarpekar Senior Software Development Engineer Comcast</p> <p>COX CPEONE Suite Now and in the Future!</p> <p>Reviewing the effectiveness of CPEONE for managing the entire CPE lifecycle</p> <p>Utilizing data mapped from installations, return, repair, scrap and to end of life</p> <p>Developing and drilling into detailed performance metrics</p> <p>Judy Brown Network Engineer I Cox Communications</p> <p>Moderator Yvette Kanouff Partner JC2 Ventures</p>
9.24.2024	<p>Security & Privacy</p> <p>Guarding the Gateway: Securing the Infrastructure</p>	<p>3:45 PM - 5:00 PM EST</p>		<p>Dr. Tao Wan Distinguished Technologist CableLabs</p> <p>Matt Carothers Senior Principal Security Architect Cox Communications</p> <p>Carl Klatsky Senior Principal Engineer Comcast</p>	<p>The Evolution of Domain Name System (DNS) Security and Privacy</p> <p>Technical overview of oblivious DNS adoption and direction of DNS privacy services</p> <p>Evaluating DNS strategies to minimize impact and disruption these services may cause to service providers' businesses and operations</p> <p>Understanding recent standards for connecting clients with encrypted resolvers and what they mean to service providers</p> <p>Reviewing best practices and recommendations for implementing DNS encryption to maximize subscribers' confidence in network-based DNS services</p> <p>Jeff Van Dyke Chief Product Architect Akamai</p>

				<p>Jeff Van Dyke Chief Product Architect Akamai</p>	<p>Shielding Networks: Pioneering Defence Strategies Against Distributed Denial of Service (DDoS) Attacks</p> <p>Extending the capabilities of Virtual Services Gateway (VSG) to provide a comprehensive distributed denial of service (DDoS) protection solution</p> <p>Implementing a selective inline traffic inspection mechanism to detect & mitigate DDoS attack packets while bypassing legitimate traffic</p> <p>Determining the robustness of DDoS defense solution to secure access networks, ensure user experience and maintain customer trust</p> <p>Carl Klatsky Senior Principal Engineer Comcast</p> <p>Stupid Log Tricks</p> <p>Developing strategies to lower the costs of security information management</p> <p>Understanding how to manage multiple tools in real time</p> <p>Lesson learned: How to build a modern architecture using open-source components</p> <p>Matt Carothers Senior Principal Security Architect Cox Communications</p> <p>Moderator Tao Wan Distinguished Technologist CableLabs</p>
9.24.2024	<p>Wireless & Convergence</p> <p>Seamless Connectivity: Anytime, Anyplace, Anywhere</p>	3:45 PM - 5:00 PM EST		<p>Mr. Neel Dayal Senior Director, Innovation and Partnerships Rogers Communications</p> <p>John Bahr Distinguished Technologist CableLabs</p> <p>Sorna Dhanabalan Lead Architect Cox Communications</p> <p>Thirumurthy Rajamanickam Head of Broadband Devices Product Architecture Nokia</p>	<p>Cox's Next Generation Serviceability and Location Based Intelligence Systems</p> <p>Designing a platform to provide seamless access and manage serviceability across multiple transports and technologies</p> <p>Understanding how to apply location-based intelligence with standardized data to serve a wide range of products and services in multiple transports</p> <p>Leveraging serviceability data to develop and promote products and services</p> <p>Sorna Dhanabalan Lead Architect Cox Communications</p> <p>Technical Paper on Creating Seamless Connectivity – Transitioning Between Wi-Fi and Other Radio Access Networks</p> <p>Exploring key considerations and overcoming challenges to achieving seamless connectivity</p> <p>Enabling a unified user experience across diverse network environments to drive QoS and QoE</p> <p>Analyzing the effectiveness of existing solutions and approaches for seamless connectivity in terms of interoperability, standardization and collaboration</p> <p>John Bahr Distinguished Technologist CableLabs</p> <p>5G and Wi-Fi 7 Network Convergence with End-to-End Network Slicing</p> <p>Understanding the role of the convergence of mobile 5G and Wi-Fi access in providing end-to-end network slicing solutions for management and service operations</p> <p>What impact will Wi-Fi 7 technology have? Exploring the framework and architecture of the converged network and the</p>

					<p>associated technologies</p> <p>Reviewing end-to-end network slicing within a converged 5G and Wi-Fi access network – what are the network management requirements for different environments?</p> <p>What is the future evolution of convergence of 5G and Wi-Fi access?</p> <p>Thirumurthy Rajamanickam Head of Broadband Devices Product Architecture Nokia</p>
9.24.2024	<p>Operations, Construction & Network Planning</p> <p>Powering a Greener Future</p>	3:45 PM - 5:00 PM EST		<p>Derek DiGiacomo Senior Director, Energy Management Program & Business Continuity SCTE</p> <p>Toby Peck Senior Director of Broadband Product Management EnerSys Energy Systems</p> <p>Mike Wojciechowski Engineer 3, Critical Infrastructure Comcast X-Labs</p> <p>Ivan Perallon VP Access Power Systems Technetix</p>	<p>Sharpen Your Senses: Enabling the No-Touch HFC Power Network Through Next-Gen Instrumentation</p> <p>Deploying an enhanced power sensing upgrade on new and legacy power architectures</p> <p>Differentiating between power sources to improve outage deployment, improve reliability and reduce truck rolls</p> <p>Understanding how to read transient signatures to train ML engines for future predictive algorithms and improve AI engine decision making</p> <p>Analyzing new insights being realized from enhanced sensory data</p> <p>Toby Peck Senior Director of Broadband Product Management EnerSys Energy</p> <p>Reduce Network Power Consumption by Up to 30%</p> <p>Reviewing drivers to reduce network power consumption</p> <p>Using direct current (DC) to improve efficiency by allowing a power factor of one and switching mode power supplies (SMPS)</p> <p>Understanding how different frequencies from DC can reduce a minimum electrolytic corrosive and optimize energy savings</p> <p>Ivan Perallon VP Access Power Systems Technetix, Inc.</p> <p>Draining the Power Grid: Slaying Energy Vampires and Optimizing Your Cable Network's Power Consumption</p> <p>Developing strategies to optimize power efficiency within the network with a focus on inside and outside plant powering</p> <p>Considering the options for reducing OSP energy waste within fiber optic nodes, OSP power supply right-sizing, and field equipment decommissioning</p> <p>Analyzing ISP wattage reduction practices, optimizing cooling techniques and standards to meet site needs</p> <p>Lessons learned: How to achieve significant energy savings and rebates while maintaining network performance</p> <p>Mike Wojciechowski Critical Infrastructure Design Engineer Comcast</p>
9.24.2024	<p>Wireline Network Evolution</p> <p>A Report Card on Virtual CCAP and</p>	4:00 PM - 5:15 PM EST		<p>David Ririe Sr. Director, Access Engineering Cox Communications</p>	<p>Lessons Learned from the World's First Deployment of Dual Queue Low Latency Networking</p> <p>Reviewing trial experiences for the world's first deployment of dual queue low latency networking</p> <p>Challenges faced and obstacles overcome</p> <p>Analyzing the measurement data concerning the improvements in latency</p>

	Low Latency			<p>Derek Lee Manager, Wireline Access Technology & Engineering Rogers Cablesystem</p> <p>Jason Livingood Vice President - Technology Policy, Product & Standards Comcast</p>	<p>Jason Livingood Vice President Technology Policy, Product & Standards Comcast</p> <p>Latency Outcomes Across Access Architectures</p> <p>Examining results from latency measurements across different technologies on production networks and the impact of enabling low-latency DOCSIS® (LLD) across different hybrid fiber coaxial (HFC) architectures.</p> <p>Understanding the benefits of enabling active queue management (AQM) and aggregate service flows (ASF)</p> <p>Reviewing the results of tests on live cable plants compared to real world PON deployments utilizing the same tools and metrics</p> <p>Developing an understanding of network latency measurements and the benefits of enabling technologies like LLD</p> <p>Eric Tijerina Director of Network Architecture and Access Engineering Midco</p> <p>Dipping Your Toe in Virtual CCAP? Journey and Early Field Trials Lessons Learnt</p> <p>Exploring the business drivers and architectural options from early field trials of virtual converged cable access platform (CCAP)</p> <p>Comparing architectural options and weighing technical and commercial advantages against increased complexity and challenges</p> <p>Understand the challenges, lessons learned and key vendor-agnostic architectural decisions and impacts</p> <p>Derek Lee Manager, Wireline Access Technology & Engineering Rogers Cablesystem</p> <p>Moderator David Ririe Cox</p>
9.24.2024	Expo Happy Hour				<p>Cheers! Happy hour takes place in the exhibition after sessions end for the day. Throughout the exhibition attendees can mix and mingle with new and old connections. Happy hours are open to everyone and serve complimentary beer, wine and soft drinks.</p>
9.24.2024	Chairmen's Reception	6:00 PM - 7:30 PM EST			<p>The chairmen's reception is one of the most prestigious events for our VIP attendees. Taking place at the end of day one of the event at an exclusive off-site location, this is a chance for the most senior audience to mix and mingle.</p> <p>By invitation only</p>
9.24.2024	CEO Dinner	7:30 PM - 9:30 PM EST			<p>Savor the best things in life: incredible food, inspiring conversations, and the joy of making connections.</p> <p>By invitation only</p>
9.25.2024	Network-as-a-Service Architecting the Cloud: Orchestrating B2B, Multi-Cloud,	3:45 PM - 4:40 PM EST		<p>Paul Fonte Director, Future Infrastructure Group CableLabs</p>	<p>Exploring the Indirect and Emerging Benefits of a Hybrid Multi-Cloud Strategy for MSOs</p> <p>Determining the advantages and disadvantages of implementing a hybrid multi-cloud</p> <p>Enabling differentiated cloud services and features to create efficiency and</p>

	and Applications			<p>David Olea Senior Manager B2B Technology Liberty Latin America</p> <p>Mr. Naim Ru Principal Architect Cox Communications</p>	<p>innovation to satisfy application-centric requirements</p> <p>Integrating public cloud platform capabilities and architectural patterns into internally-managed private cloud and IT services to adopt best practices and design patterns</p> <p>Defining the appropriate cloud strategy and guidelines for alignment across the business, application, data, and integration domains</p> <p>data management governance</p> <p>technological capabilities mapping regulatory/security compliance considerations.</p> <p>Naim Ru Principal Architect Cox Communications</p> <p>Automation and Orchestration of Multiple Platforms to Offer a B2B Self-Service Cloud Platform</p> <p>Meeting customer needs by using automation tools in conjunction with other open-source platforms for DevOps</p> <p>Understanding the benefits of a fully DevOps oriented environment in terms of meeting the IaC (Infrastructure as Code) requirements, future-proof granting growth functionalities, adjusting to the new version and quickly adding features</p> <p>Exploring how the architecture supports operating expense reductions, improves delivery time, enables new security features and offers opportunities to execute new customization based on market needs</p> <p>What is the cultural change needed to succeed?</p> <p>David Olea Senior Manager B2B Technology Liberty Latin America</p> <p>Moderator Paul Fonte Director, Future Infrastructure Group CableLabs</p>
9.25.2024	Light Reading Breakfast: Betting on Mobility & Convergence	7:30 AM - 8:50 AM EST		<p>Craig Leddy Contributing Analyst Heavy Reading</p> <p>Victor Esposito SVP, Engineering and Network Operations Ritter Communications</p>	<p>Cable operators care about a lot more than their legacy HFC networks these days. Led by the four biggest U.S. MSOs and now the NCTC, cablecos are deploying mobile services throughout the land as they seek to develop a third prime offering to accompany broadband and video. Operators are also looking to weave in mobile so they can offer converged wireline-wireless services to customers over the same shared network infrastructure.</p> <p>Where does the industry stand with its mobility campaign? How are cable and mobile technologists progressing with their convergence efforts? What will the uber network of the future look like? Which use cases seem the most promising? What are the biggest hurdles that technologists are encountering? How will they overcome them?</p>
9.25.2024	Driving a Proactive Approach to AI-Powered Security	7:30 AM - 8:45 AM EST		<p>Dawit Asfaha VP Strategy, Architecture & Integration Rogers Communications</p>	<p>Hacking the Hacker: How AI is Changing the Game of Penetration Testing</p> <p>Determining the feasibility of utilizing large language models (LLMs) for penetration testing and ethical hacking</p> <p>Exploring the art of the possible: How effective are LLMs in deciphering</p>

				<p>Dr. Kyle Haefner Ph.D., Principal Architect CableLabs</p> <p>Jeff Calkins Lead Data Scientist Charter Communications</p>	<p>complex technical challenges, exploiting vulnerabilities and generating exploit scripts? What are the ethical considerations for testing and guidelines for responsible implementation</p> <p>Kyle Haefner Ph.D., Principal Architect CableLabs</p> <p>Gremlins in the Network: How Adversarial AI Can Evade Network Detection</p> <p>Understanding the role of network traffic analysis and adversarial AI in cybersecurity</p> <p>Deep dive: How can attackers manipulate network traffic data to bypass detection</p> <p>Developing potential defense mechanisms to improve the robustness of network traffic analysis against adversarial AI</p> <p>Kyle Haefner Ph.D., Principal Architect CableLabs</p> <p>Protecting Content with Enhanced Gini Entropy Analysis</p> <p>Developing a novel approach to security issues surrounding Digital Rights Management</p> <p>Using anonymized data from peripheral devices and user behavior to draw inferences on user characteristics and system conditions</p> <p>Jeff Calkins Lead Data Scientist Charter Communications</p>
9.25.2024	<p>Operations, Construction & Network Planning</p> <p>Using AI to Optimize Operations and Energy Consumption</p>	7:30 AM - 8:45 AM EST		<p>Ryan Capone Vice President, Network Facilities & Energy Comcast</p> <p>Mike Glaser Principal Architect, Critical Facilities Cox Communications</p> <p>Jordan Kupersmith Data Scientist II Cox Communications</p> <p>Ron Slutter Advanced Application and Support Manager EnerSys Energy Systems</p>	<p>Preventing Network Maintenance Collisions, Using Artificial Intelligence (AI) Models for Predicting Collisions in Planned Maintenance Activities</p> <p>Exploring how AI model use cases can predict and avoid collisions in change activities leading to customer impacts or extended outages during planned maintenance</p> <p>Staying abreast of technological advances, break-fix scenarios and building new configurations in the network</p> <p>Using a predictive AI model to aid engineers and technicians doing network maintenance to reduce customer impacts from planned maintenance</p> <p>Jordan Kupersmith Data Scientist II Cox Communications</p> <p>Taking Critical Facility Energy Conservation Measures to the Next Level: Incorporating Lessons Learned and Moving Towards AI/ML for Building Management Systems Controls</p> <p>Examining recent developments in Energy Conservation Measures (ECMs) to improve critical facilities availability, reliability, sustainability and resilience</p> <p>Reviewing ECMs and their impact and lessons learned through deployment</p> <p>Exploring how AI and ML can be used with BMS controls to optimize efficiency</p> <p>Mike Glaser Principal Architect, Critical Facilities Cox Communications</p> <p>Artificial Intelligence and the Nanogrid in Critical Facility Power Infrastructure</p>

					<p>Exploring the cost saving and sustainability benefits of nanogrids</p> <p>Using Artificial Intelligent Nanogrid controllers to predict and automate the energy decision-making process</p> <p>Selecting the appropriate source based on previously chosen criteria to optimize future changes manually</p> <p>Understanding the importance of AI for Critical Infrastructure Technologies to provide resilience, risk reduction, energy optimization, and sustainability through Nanogrid</p> <p>Critical Facility Power Infrastructure</p> <p>Ron Slutter Senior Technical Sales Representative EnerSys Energy Systems</p>
9.25.2024	<p>Wireline Network Evolution</p> <p>Practical Strategies for Deploying FTTH</p>	7:30 AM - 8:45 AM EST		<p>John Bevilacqua Principal Architect CableLabs</p> <p>Brian Yarbrough Principal Engineer - OSP Engineering Cox Communications</p> <p>Kevin Noll Principal Architect CableLabs</p>	<p>The Path not Traveled – An analysis of modern PON technologies in the evolutionary path of HFC networks</p> <p>Conducting a comparative analysis of 10G PON, 25G PON, 50G PON, and 100G Coherent PON technologies in terms of technical merits, deployment scenarios, and economic considerations</p> <p>Analyzing various models of internet usage and how each technology can address escalating bandwidth requirements.</p> <p>Developing a framework to select the most appropriate PON technology tailored to the specific needs of new deployments and the upgrade paths for existing networks</p> <p>Kevin Noll Principal Architect CableLabs</p> <p>FTTH Distance and Density Considerations</p> <p>Understanding how the location of the deployment opportunity drives different optical transport considerations</p> <p>Examining the scalability and economics of deploying targeted remote Optical Line Terminal (OLT) solutions vs. larger cabinet or facility-based OLTs</p> <p>Exploring how a distance and density-based decision tree can assist with network planning and estimating</p> <p>Brian Yarbrough Principal Engineer – OSP Engineering Cox Communications</p> <p>Moderator John Bevilacqua Principal Architect CableLabs</p>
9.25.2024	Circle of Eagles	7:30 AM - 8:45 AM EST	B301		<p>The Circle of Eagles are valuable leaders of the Society, including Hall of Fame members, Charter Members, Fellow Members, Past Presidents and Chairmen of the Board.</p>
9.25.2024	Opening Headliners	9:00 AM - 10:30 AM EST	Murphy Ballroom - Main Stage	<p>Mark Bridges Senior Vice President and Chief Technology Officer CableLabs</p> <p>Ronald Reuss Senior Vice President and</p>	<p>TechExpo headliner speakers are leaders setting the bold vision to shape the world of broadband connectivity and the workforce powering it.</p> <p>CTO Town Hall</p> <p>Charlie Herrin, President of the Technology, Product, Experience, Comcast</p> <p>Len Barlik, Executive Vice President, Chief Technology Officer, Cox Communications</p> <p>Justin Colwell, Executive Vice President, Connectivity Technology, Charter</p>

				<p>Chief Strategy Officer CableLabs</p> <p>Damian Poltz Senior Vice President, Wireline Networks Rogers Communications</p> <p>Charlie Herrin President of the Technology, Product, Experience Comcast</p> <p>Len Barlik Executive Vice President, Chief Technology Officer Cox Communications</p> <p>Justin Colwell Executive Vice President, Connectivity Technology Charter Communications</p> <p>Jim Ryan SVP and Chief Strategy Officer Liberty Global</p> <p>Ray Collins SVP, Infrastructure and Corporate Strategy Liberty Latin America</p>	<p>Communications</p> <p>Moderator: Mark Bridges, Senior Vice President and Chief Technology Officer, CableLabs</p> <p>Shaping the Future: Strategy Executive Perspectives</p> <p>Damian Poltz, Senior Vice President, Wireline Networks, Rogers Communications</p> <p>Jim Ryan, SVP and Chief Strategy Officer, Liberty Global</p> <p>Ray Collins, SVP, Infrastructure and Corporate Strategy, Liberty Latin America</p> <p>Moderator: Ron Reuss, Senior Vice President and Chief Strategy Officer, CableLabs</p>
9.25.2024	A Year After the Artificial Intelligence Executive Order: Current Status & What's Ahead	10:45 AM - 11:45 AM EST		<p>Priya Shrinivasan Director, Technology Policy CableLabs</p>	<p>The President's AI Executive Order outlined more than 150 directives that federal agencies must implement to ensure the United States remains at the forefront of responsible AI innovation and governance</p> <p>A panel of government experts will evaluate key requirements relevant to the broadband industry and discuss the federal government's priorities</p>
9.25.2024	Exhibition Open	10:45 AM - 6:00 PM EST			

9.25.2024	SCTE Standards Business Continuity Program & Disaster Recovery Update	11:00 AM - 12:30 PM EST	B207	<p>Derek DiGiacomo Senior Director, Energy Management Program & Business Continuity SCTE</p> <p>Jim Shortal Assistant Vice President of Enterprise Business Continuity Cox Communications</p>	<ul style="list-style-type: none"> • Exploring the latest emergency response initiatives • Reviewing work with the Department of Homeland Security and business tools for continuity management • Lessons learned from case studies
9.25.2024	<p>Wireline Network Evolution</p> <p>From Residential to Multi-Service Fiber Access Networks</p>	11:45 AM - 12:25 PM EST	The Loft	<p>Ken Pyle</p> <p>Douglas Blue Business Development Leader - North America, Fixed Networks Nokia</p> <p>Ladi Astrab Head of Presales Incognito Software Solutions</p> <p>Tom Williams CEO Razzele</p>	<p>Developing strategies to build fiber and/or DOCSIS® networks that serves the needs of residential, business, smart city, and converged mobile opportunities</p> <p>Evaluating the access technologies and the value-added services that can be built across such networks</p>
9.25.2024	<p>Network-as-a-Service</p> <p>Optimizing Your Edge</p>	12:30 PM - 1:45 PM EST		<p>Bill Warga Vice President Strategy & Technology Liberty Global</p> <p>Dr. Keith Rothschild Senior Principal Engineer Cox Communications</p> <p>Nicholas Dunkin Director of Architecture and New Product Introduction Vecima Networks</p>	<p>Cox Engineering's Common Platform Strategy</p> <p>Exploring how to deploy virtualized infrastructure and related automation systems to unlock innovation, efficiency, and reliability</p> <p>Driving key aspects such as development practices, automation, and centralized management to enhance operational efficiency</p> <p>Utilizing carrier-grade solutions for cloud-native applications and essential network service to ensure scalability and reliability</p> <p>Accelerating software development, deployment, and management while prioritizing security and efficiency</p> <p>Keith Rothschild Senior Principal Engineer Cox Communications</p> <p>The Multi-CDN Dilemma: Aggregated Edge Networks at Scale</p> <p>Exploring the drivers for independent regional CSPs to consolidate behind a single global open caching controller and open caching request router</p> <p>Propagating configurations to downstream caches and managing the delegation of streaming sessions</p> <p>Aggregating reporting, logging, and</p>

				<p>Thomas Youngblood Systems Administration Manager Cox Communications</p>	<p>observability metrics for delivery to an upstream content provider Nicholas Dunkin Director of Architecture and New Product Introduction Vecima Networks</p> <p>Designing a Cloud-Native, Real-Time Data Hub and Reporting Dashboard to support Cox Multi-Channel Contact Center Operations</p> <p>Upgrading to a cloud-native design which enables the adoption of predictive technologies using AI and machine learning</p> <p>Defining an architecture that will enable a data hub to allow consumption of multiple high-frequency and high-volume data sets with enrichment and data presentation in near real-time</p> <p>Selecting the right set of services to meet business use cases without oversizing the design and delivering a cost-effective solution</p> <p>Thomas Youngblood Systems Administration Manager Cox Communications</p>
9.25.2024	<p>Growth & Transformation</p> <p>Driving Growth with Business Services</p>	12:30 PM - 1:30 PM EST		<p>Brian Kaplan TMT Consulting Partner PWC</p> <p>Satya Parimi Senior Vice President, Product & Strategy Spectrum Enterprise</p> <p>Bob Victor SVP Customer Solutions Comcast Business</p> <p>Michael Reinartz Director Innovation Vodafone Germany</p>	<p>How to pursue growth and margin enhancements with the enterprise customer and small-to-medium size businesses</p> <p>Best practices for collaboration, differentiation, and innovation in business services</p>
9.25.2024	<p>Wireline Network Evolution</p> <p>Navigating the Transition: Operational Insights into Delivering Broadband over Fiber</p>	12:30 PM - 1:10 PM EST	The Loft		<p>Exploring the operational journey undertaken by service providers transitioning to delivering broadband via Fiber to the Home (FTTH) networks</p> <p>Lessons learned: Operational requirements, challenges encountered, and valuable insights gained along the way</p>
9.25.2024	Wireline Network Evolution	12:30 PM - 1:45 PM EST		<p>Fernando Villarruel Senior Advisor PON Core Group Ciena- Tibit Technologies</p>	<p>If You Love Coherent, Set it Free: Extending Coherent Optics to the Outside Plant</p> <p>Unleashing the power of coherent optics in the outside plant (OSP) environment</p> <p>Examining the key technology</p>

	A Photonic Future			<p>Dr. Zhensheng Jia Fellow and Director of Advanced Optical Technologies CableLabs</p> <p>Venk Mutalik Comcast Fellow Comcast</p> <p>Tanuja Maneesh Senior Optical Transport Engineer Rogers Communications</p>	<p>innovations, contrast dual-laser and sub-carrier approaches</p> <p>Discussing the operational challenges and the architectures that help converge optical links from the core to the home</p> <p>Venk Mutalik Comcast Fellow Comcast</p> <p>Our Ultimate Fiber Network Just Got a New Look with a Comb – A Comprehensive Exploration of Optical Frequency Combs</p> <p>Introducing the concept of optical power generator and grid to optimize the use of optical resources</p> <p>Leveraging these comb sources over a single access network fiber</p> <p>Understanding the challenges and insights into potential solutions</p> <p>Assessing the architecture and migration strategies towards an ultimate cable fiber network</p> <p>Zhensheng Jia Fellow and Director of Advanced Optical Technologies CableLabs</p> <p>Tactics for Deploying C-L CDC-F DWDM Systems</p> <p>Launching high-performing optical transport technology without disrupting the customer</p> <p>Exploring best practices to overcome fiber non-linearities, such as Simulated Raman Scattering (SRS) and Amplified Spontaneous Emission (ASE) line-loading and minimizing network fragmentation.</p> <p>Understanding the technical and economic implications of deploying and operationalizing long-haul C-L CDC-F DWDM technology</p> <p>Developing a roadmap that can adapt to the dynamic landscape of wireline and wireless network evolution and the strategic deployment of advanced DWDM</p> <p>Tanuja Maneesh Senior Optical Transport Engineer Rogers Communications</p> <p>Moderator Fernando Villarruel Chief Architect Ciena</p>
9.25.2024	<p>Operations, Construction & Network Planning</p> <p>Optimization: Optimizing Operations with Automation</p>	12:30 PM - 1:45 PM EST		<p>Robert Gaydos Comcast Fellow Comcast</p> <p>Douglas Johnson VP, Software Architecture Vecima Networks</p> <p>Mark Kayser Sr Communications / Network Engineer, Cox Business Network Sustaining Engineering Cox Communications</p>	<p>The Journey of a LATAM Telco to Enhance Operations through AIOps</p> <p>Determining the drivers for and meeting the challenge of implementing Artificial Intelligence for IT Operations (AIOps)</p> <p>Integrating AIOps across different such as: systems integration, information standardization, process optimization</p> <p>Developing effective monitoring and incident management capabilities whilst prioritizing the user experience</p> <p>Adopting AIOps to unlock new levels of operational efficiency and innovation</p> <p>Carlos Reyes Manager OSS Engineering and Automation Liberty Latin America</p> <p>Automation in a Service Provider Brownfield Network</p> <p>Examining the components needed to create a complete automation solution network planning tool automated configuration deployment</p>

				<p>Carlos Alberto Reyes Manager Service Assurance Development Liberty Latin America</p>	<p>network status tool configuration compliance solution Building a complete automation solution from both open-source solutions and homegrown tools to provide flexibility and customization in both greenfield and legacy networks</p> <p>Mark Kayser IP Engineer III, Cox Business Network Sustaining Engineering Cox Communications</p> <p>Automating R-PHY in the Transition to vCMTS</p> <p>Examining key concepts in R-PHY automation across the full network device lifecycle for vCMTS and RPD</p> <p>Integrating CCAP to vCMTS with an API-first approach and applying lessons learned from existing national R-PHY automation to move to a full no-touch deployment model</p> <p>Provisioning ongoing configuration management in a unified model with special consideration for complex automation concerns of gating, approval processes, and reconciliation loops</p> <p>Douglas Johnson VP, Software Architect Vecima Networks</p> <p>Moderator Bob Gaydos Comcast Fellow Comcast</p>
9.25.2024	Boosting Your Wi-Fi: Creating a Better Experience for Real-Time Applications	12:30 PM - 1:45 PM EST		<p>Lili Hervieu Principal Architect, Wireless Research & Development CableLabs</p> <p>Lei Zhou Engineer Charter Communications</p> <p>Pratyusha Malladi Principal Engineer Charter Communications</p> <p>Saju Palayur Senior Technical Director of Software Engineering Maxlinear Inc.</p>	<p>Strategies for Ultra-Low Latency in Wi-Fi</p> <p>Exploring new metrics to evaluate network performance: Why throughput and latency are key</p> <p>Analyzing mechanisms in Wi-Fi such as Multi-Link Operation (MLO) for managing and minimizing latency</p> <p>Leveraging new features and functions to extend low latency to the customer connecting via Wi-Fi</p> <p>Pratyusha Malladi Principle Engineer Charter Communications</p> <p>QoS – It's Not Just for DOCSIS® Anymore – Quality of Service (QoS) Mechanisms in Wi-Fi</p> <p>Understanding the limitations of current contention-based QoS mechanisms and their use in increasingly congested networks</p> <p>Considering other forms of network access that rely on central scheduling</p> <p>Exploring and comparing emerging QoS mechanisms to future proof Wi-Fi</p> <p>Saju Palayur Senior Technical Director of Software Engineering MaxLinear, Inc.</p> <p>Wi-Fi Latency Characterization and Optimization</p> <p>Exploring strategies to improve the latency performance of a WiFi network</p> <p>Evaluating the active queue management (AQM) technology as a solution to the buffer-bloat in a Wi-Fi link</p> <p>Optimizing AQM algorithms for contention-based media access systems by exploiting state information of the Distributed Coordination Function (DCF) of the Wi-Fi MAC</p> <p>Lei Zhou Engineer Charter Communications</p>

9.25.2024	SCTE Energy 20/20 Update	1:00 PM - 2:30 PM EST	B207	<p>Derek DiGiacomo Senior Director, Energy Management Program & Business Continuity SCTE</p> <p>Ryan Capone Vice President, Network Facilities & Energy Comcast</p>	<p>Reviewing the latest developments in sustainability and energy efforts</p> <p>Driving efficiencies in operations and engineering to support sustainability initiatives and the bottom line</p> <p>Now more than ever, the Energy 20/20 Program reminds us how important efficiencies in operations and engineering are to the planet and to our bottom line</p>
9.25.2024	Cybersecurity 2025: What Should We Expect?	1:15 PM - 2:15 PM EST		<p>Loretta Polk Vice President and Deputy General Counsel NCTA – The Internet & Television Association</p>	<p>Cybersecurity is a never-ending hot topic both in government and industry, with a sharp focus by the current White House</p> <p>Hear from government experts on the Administration's priorities and expectations for the broadband industry in this always evolving landscape</p>
9.25.2024	AI & Automation Developing and Building AI and GenAI Products	2:00 PM - 3:15 PM EST		<p>Bill Warga Vice President Strategy & Technology Liberty Global</p> <p>Dr. Jennifer Andreoli-Fang Head of Fixed Networks AWS</p> <p>Jan Neumann Vice President, AI Technologies Comcast</p> <p>Jim Prather Lead Systems Engineer Cox Communications</p>	<p>Causality-Based Instant Root Cause Analysis for Microservices Failure</p> <p>Automating the construction of micro-service dependencies by leveraging causal discovery techniques with multivariate time-series data to facilitate the swift identification of microservice failures</p> <p>Empowering site reliability engineers to make informed, data-driven decisions</p> <p>Understanding how to implement a causality-based instant RCA method in an AIOps platform to improve reliability</p> <p>Jan Neumann Senior Director, Applied AI Research Comcast</p> <p>Anomaly Detection in the Oracle Database Ecosystem Using Density Based Spatial Clustering</p> <p>Using density-based spatial clustering (DBSCAN) for anomaly detection</p> <p>Operationalizing DBSCAN ML techniques on database monitoring data</p> <p>Understanding how to manage and group your data across databases using standard monitoring techniques</p> <p>Jim Prather Lead Systems Engineer Cox Communications</p> <p>A Comprehensive Approach to Building Generative AI Products</p> <p>A framework for understanding, evaluating, and integrating AI and GenAI into various software development operations and services</p> <p>Exploring the different classes of GenAI models, including open-source, open-weights, and proprietary models to enable effective utilization</p> <p>Synergies between GenAI and other AI technologies to unlock new possibilities for operations, network management, content analysis and generation, and enhancing the customer experience</p>

					<p>Jennifer Andreoli-Fang Senior Manager, North America Telecom, Service Providers Cloud Architecture Amazon</p> <p>Moderator Bill Warga Vice President Strategy & Technology Liberty Global</p>
9.25.2024	<p>Growth & Transformation – Lessons from the Video Game Industry</p>	<p>2:00 PM - 3:00 PM EST</p>		<p>Anju Ahuja VP Product Strategy Insights CableLabs</p> <p>Shawn Layden Former Chairman PlayStation Worldwide Studios Sony Interactive Entertainment</p>	<p>The video game industry achieved record growth, outpacing movie and music combined</p> <p>Shawn Layden, former Chair of PlayStation Worldwide studios shares the secret to their growth, innovation and differentiation</p> <p>Hear the implications and opportunities for broadband operators in this fireside chat with Anju Ahuja</p>
9.25.2024	<p>Wireline Network Evolution</p> <p>Coherent PON</p>	<p>2:00 PM - 2:55 PM EST</p>		<p>Matt Schmitt Principal Architect CableLabs</p> <p>Edward Boyd Vice President, PON R&D Ciena</p> <p>Dr. Haipeng Zhang Principal Architect CableLabs</p>	<p>What Could You Do with 100 Gbps Coherent PON?</p> <p>Analyzing the viability of a specific coherent PON as a replacement for point-to-point fiber solution used in backhaul, enterprise connectivity, and aggregation</p> <p>Lessons learned: Reviewing the cost, optical budget, system throughput, latency, jitter, and the applicability</p> <p>Edward Boyd Vice President PON R&D Ciena</p> <p>Unleashing the Power of Coherent Optical Technology: Revolutionizing Next-Generation PONs with Flexible Rates, Upstream Burst Detection, and Network Protection</p> <p>Exploring how CPON architecture can replace External Cavity Lasers (ECLs) with affordable devices in the ONUs and versatile bandwidth allocation across time and frequency domains</p> <p>Examining the field of upstream burst coherent detection in CPON and the significance of efficient burst recovery and processing</p> <p>Reviewing network reliability and resiliency in an innovative network protection strategy for CPON that leverages a cost-effective mutual protection scheme</p> <p>Haipeng Zhang Principal Architect CableLabs</p> <p>Moderator Matt Schmitt Principal Architect CableLabs</p>
9.25.2024	<p>Wireless & Convergence</p> <p>DOCSIS® Meets Wireless: Performance Analysis and Testing</p>	<p>2:00 PM - 3:15 PM EST</p>		<p>Josh Redmore Principal Architect, Wireless Access Technologies CableLabs</p> <p>Dr. Rahil Gandotra Lead Architect</p>	<p>Transport Protocols Analysis</p> <p>Exploring the QoS and QoE requirements of new and emerging demanding applications</p> <p>Understanding the increasing importance of the transport and network layers working in synergy on overall network performance</p> <p>Reviewing the capabilities available and the results from both simulations and real-world traffic testing</p> <p>Lessons learned: Determining the use cases and applicability of each</p>

				<p>CableLabs</p> <p>David Urban Independent</p> <p>Victor Lopez Network Engineer Charter Communications</p>	<p>protocol and deployment options Rahil Gandotra Lead Architect CableLabs</p> <p>Wi-Fi 7 Meets World Subtitle: Utilizing 802.11be Features to Increase Customer Application Reliability</p> <p>Exploring the ability of Wi-Fi 7 to deliver the capacity and improve the reliability of the connection needed for emerging customer applications How can the tools and features of Wi-Fi 7 be deployed to meet customer reliability requirements? David Urban Independent</p> <p>Wi-Fi Performance Testing for Outdoor Environments</p> <p>Developing strategies to conduct Wi-Fi testing in diverse markets for out-of-home environments Understanding the methodology for testing and characterizing the Wi-Fi environment Victor Lopez Network Engineer Charter Communications</p>
9.25.2024	<p>Operations, Construction & Network Planning</p> <p>Transforming a BSP from VDSL to GPON: A Case Study on the Operational Benefits of Overbuilding a Telco's MSAN</p>	2:00 PM - 2:20 PM EST	The Loft	<p>Chuck Page VP, Technical Operations Liberty Caribbean</p>	<p>Examining the benefits of a copper access network with FTTH Making a CapEx investment to overbuild a copper access network with fiber Migrating OpEx savings from copper network shutdown Chuck Page VP, Technical Operations Liberty Caribbean</p>
9.25.2024	<p>Operations, Construction & Network Planning</p> <p>New Approaches to Network Design</p>	2:20 PM - 3:35 PM EST		<p>Jennifer Smardo Senior Vice President, Network Implementation Comcast</p> <p>Sung-eun Kim Principal Architect Cox Communications</p> <p>John Schlack Distinguished Architect Comcast Cable</p> <p>Kathy Binns Program Delivery Director</p>	<p>Building and Deploying Enterprise-Wide Design and Drafting Tools for Hybrid Fiber Coaxial (HFC) Networks</p> <p>Reviewing the development of a HFC network design tool that addresses the limitations of existing tools Meeting the challenges of transforming data from current tools Examining strategies for deployment strategy for the HFC network design tool Understanding the considerations for regional rollout to reduce risk and embrace adoption Determining the challenges of deploying an application that provides data to over one hundred applications using layer services Kathy Binns Program Delivery Director Comcast</p> <p>Taking the Guesswork Out of Network Capacity Management</p> <p>Analyzing network performance metrics aimed at facilitating robust capacity management strategies within broadband networks Assessing potential applications for effective network capacity management Leveraging insights derived from speed distributions, latency characteristics, and associated parameters to proactively optimize</p>

				Comcast	<p>network resources, enhance service quality, and ensure optimal customer experience</p> <p>Sung-eun Kim Senior Network Planning Engineer Cox Communications</p> <p>Evolution of the Automated Pre-Vetting Process to Validate Access Network Maps</p> <p>John Schlack Distinguished Architect Comcast</p> <p>Moderator Jennifer Smardo Senior Vice President, Network Implementation Comcast</p>
9.25.2024	<p>The Human Factor</p> <p>AI Strategy Arena: Master the Game of Integration</p>	2:30 PM - 4:00 PM EST	B302		<p>Exploring innovative strategies to overcome real-world challenges associated with AI deployment</p> <p>Building a clearer understanding of the steps involved in AI integration, from conceptualization to execution</p>
9.25.2024	<p>Technology Policy</p> <p>Where in the World are Broadband Programs Now?</p>	2:30 PM - 3:30 PM EST		<p>Pamela Arluk Vice President & Associate General Counsel NCTA - The Internet and Television Association</p> <p>Adam Cassady Media and Wireline Advisor to Commissioner Nathan Simington Federal Communications Commission, Office of Commissioner Simington</p> <p>Amanda Martin Policy Director National Telecommunications and Information Administration</p>	<p>States are starting to receive BEAD funding, the Affordable Connectivity Program remains unfunded (or received new funding), states and operators continue programs to build workforce, digital skills, and increase digital equity</p> <p>With all of these programs running at the same time, where are we going and what are the challenges?</p>
9.25.2024	<p>The Human Factor</p> <p>Lightning Talks: Innovation in Action</p>	2:30 PM - 3:25 PM EST	The Loft	<p>Bill Wurga Vice President Strategy & Technology Liberty Global</p>	<p>Discover industry case studies demonstrating how creative confidence and innovation grit can push boundaries</p> <p>Understand how to persevere when faced with challenges and obstacles, making bold decisions despite prior failures</p> <p>Learn how to face uncertainty, handle naysayers, and advance innovative</p>

				<p>Phil McKinney CEO CableLabs</p> <p>Michelle Vendelin Director, Innovation Services & Coaching CableLabs</p>	<p>work over the long-haul Build your career currency and pursue your ideas</p>
9.25.2024	<p>Technology Policy</p> <p>Where in the World are Broadband Programs Now?</p>	2:30 PM - 3:30 PM EST	B405	<p>Pamela Arluk Vice President & Associate General Counsel NCTA - The Internet and Television Association</p> <p>Adam Cassady Media and Wireline Advisor to Commissioner Nathan Simington Federal Communications Commission, Office of Commissioner Simington</p> <p>Amanda Martin Policy Director National Telecommunications and Information Administration</p>	<p>States are starting to receive BEAD funding, the Affordable Connectivity Program remains unfunded (or received new funding), states and operators continue programs to build workforce, digital skills, and increase digital equity With all of these programs running at the same time, where are we going and what are the challenges?</p>
9.25.2024	Building a Services-Platform Beyond Simple Connectivity	3:30 PM - 4:10 PM EST	The Loft		<p>Exploring different architectures and services platform Driving value and differentiation from within the managed home to new containerized service offerings and relevant Quality of Experience (QoE)</p>
9.25.2024	<p>Growth & Transformation</p> <p>CMO Insights: The North American Perspective</p>	3:30 PM - 4:30 PM EST	B312	<p>Wendy Rosen AVP Consumer Insights Cox Communications</p> <p>Kendall Milne Bancroft SVP Rogers Communications</p>	<p>How the industry has developed and meeting the demands of new users Building marketing strategies that suit a changing audience</p>

				<div>David McNaughton Senior Vice President Sales and Marketing Mediacom</div> <div>Todd Arata Senior Vice President, Brand and Integrated Marketing Communications Comcast</div> <div>Sharon Peters Executive Vice President, Chief Marketing Officer Charter Communications</div> <div>Kate Slyker Chief Marketing Officer GCI</div>	
9.25.2024	<div>Network-as-a-Service</div> <div>Architecting the Cloud: Orchestrating B2B, Multi-Cloud, and Applications</div>	3:45 PM - 4:40 PM EST	B314	<div>Paul Fonte Director, Future Infrastructure Group CableLabs</div> <div>David Olea Senior Manager B2B Technology Liberty Latin America</div> <div>Mr. Naim Ru Principal Architect Cox Communications</div>	<div>Exploring the Indirect and Emerging Benefits of a Hybrid Multi-Cloud Strategy for MSOs</div> <div>Determining the advantages and disadvantages of implementing a hybrid multi-cloud</div> <div>Enabling differentiated cloud services and features to create efficiency and innovation to satisfy application-centric requirements</div> <div>Integrating public cloud platform capabilities and architectural patterns into internally-managed private cloud and IT services to adopt best practices and design patterns</div> <div>Defining the appropriate cloud strategy and guidelines for alignment across the business, application, data, and integration domains</div> <div>data management governance technological capabilities mapping regulatory/security compliance considerations.</div> <div>Naim Ru Principal Architect Cox Communications</div> <div>Automation and Orchestration of Multiple Platforms to Offer a B2B Self-Service Cloud Platform</div> <div>Meeting customer needs by using automation tools in conjunction with other open-source platforms for DevOps</div> <div>Understanding the benefits of a fully DevOps oriented environment in terms of meeting the IaC (Infrastructure as Code) requirements, future-proof granting</div>

					<p>growth functionalities, adjusting to the new version and quickly adding features</p> <p>Exploring how the architecture supports operating expense reductions, improves delivery time, enables new security features and offers opportunities to execute new customization based on market needs</p> <p>What is the cultural change needed to succeed?</p> <p>David Olea Senior Manager B2B Technology Liberty Latin America</p> <p>Moderator Paul Fonte Director, Future Infrastructure Group CableLabs</p>
9.25.2024	<p>Operations, Construction & Network Planning</p> <p>Making Sense of Plant Data</p>	3:45 PM - 5:00 PM EST	B313	<p>Dr. Jason Rupe Distinguished Technologist CableLabs</p> <p>John Chrostowski Executive Director, NGAN Access Engineering Comcast</p> <p>Allen Maharaj Manager - HFC Network Operations Rogers Communications</p> <p>Anna Gallegos Technical Product Manager Comcast</p>	<p>Re-Thinking Service Interruptions from Architecture to Operations</p> <p>Building a centralized and automated solution to identify all interruptions and assign a potential root cause in near real-time by leveraging network telemetry</p> <p>Integrating a novel algorithm into the existing network ecosystem that can differentiate between various types of plant events and commercial power outages (CPO)</p> <p>Use case analysis: How is the algorithm being used to identify root cause with the presence of alternative power sources?</p> <p>Exploring how automated root cause identification enables a more efficient path to remediation resulting in a better operational and customer experience</p> <p>Anna Gallegos Technical Product Manager Comcast</p> <p>Hattery Will Get You Everywhere</p> <p>Building tools and processes for successful deployment of DOCSIS® 4.0 FDX at scale</p> <p>Examining the effectiveness of the automated assessment tools designed, built, and implemented to date in terms of customer experience, scalability and DOCSIS® 4.0 migration</p> <p>Lessons learned and metrics from the FDX installations</p> <p>Explain the roadmap for these tools as FDX evolves to deploy over N+x systems</p> <p>John Chrostowski Executive Director, NGAN Access Engineering Comcast</p> <p>Understanding the Challenges of DOCSIS® Proactive Network Maintenance</p> <p>Determining and overcoming the obstacles that can undermine the success of DOCSIS® Proactive Network Maintenance (PNM) initiatives</p> <p>Deep dive into data overload: How to distill complex data into clear, actionable recommendations for network maintenance and optimization</p> <p>Optimizing PNM programs to unlock the full potential of proactive network maintenance in delivering superior service quality to subscribers</p> <p>Allen Maharaj Manager, HFC Operations Rogers Communications Inc.</p> <p>Moderator</p>

					Jason Rupe Distinguished Technologist CableLabs
9.25.2024	Wireless & Convergence Connectivity for the Enterprise Customer	3:45 PM - 5:00 PM EST	B308	<p>Dr. Rikin Thakker Chief Technology Officer and SVP, Technology NCTA - The Internet & Television Association</p> <p>Mr. Robert Jaksa Principal Engineer Comcast</p> <p>Rohith Kumar Punithavel Sr. Software Engineer Charter Communications</p> <p>Jeff Hales Principal Architect Cox Communications</p>	<p>Challenges and Potential Solutions to Deploying IoT (Internet of Things) in a Multi-Dwelling Setting</p> <p>Developments in advanced automation and integrated services: What are the available service offerings and meeting their connectivity requirements</p> <p>Exploring the associated challenges and various solutions to deploying Internet of Things (IoT) services in multi-dwelling properties</p> <p>Assessing the pros and cons of available solutions</p> <p>Jeff Hales Principal Architect Cox Communications</p> <p>Comcast Business Powers Next-Gen Connectivity at The Players Championship</p> <p>Private Wireless 5G network case study: A behind-the-scenes look at the 2024 PLAYERS® Championship</p> <p>Exploring the power of CBRS spectrum and leveraging PAL and GAA spectrum</p> <p>Examining developments in RF planning and design approaches</p> <p>Identifying the broader application of private wireless use cases across industry verticals as defined by enterprise customers requirements</p> <p>Robert Jaksa Principal Engineer Comcast</p> <p>Connectivity in Electric Vehicles: A Practical Case Study</p> <p>Exploring the criticality of connectivity in electric vehicles: What is needed in practical terms</p> <p>Understanding the data usage for upload and download per day, month, vehicle, and manufacturer</p> <p>Forecasting EV sales and Charter network's capability to handle data transactions</p> <p>Rohith Kumar Punithavel Senior Software Engineer Charter Communications</p> <p>Moderator Rikin Thakker Chief Technology Officer and Senior Vice President NCTA</p>
9.25.2024	Technology Policy Broadband Networks and Disaster Planning	3:45 PM - 4:45 PM EST	B405	<p>Derek DiGiacomo Senior Director, Energy Management Program & Business Continuity SCTE</p> <p>Jim Shortal Assistant Vice President of Enterprise Business Continuity Cox Communications</p>	<p>In today's interconnected world, reliable communication platforms are the backbone of society</p> <p>Simultaneously, the world is witnessing a rise in severe weather events and natural disasters due to climate change</p> <p>Operators and government agencies are striving to minimize risks and expedite recovery times in the event of these natural disasters</p> <p>Hear how broadband providers and local, state, and federal agencies are working hand in hand to prepare for and respond to these challenges</p>

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9.25.2024	<p>Wireline Network Evolution</p> <p>HFC Continues to Deliver</p>	3:45 PM - 5:00 PM EST	B401	<p>Dr. Alberto Campos Fellow CableLabs</p> <p>Mike Cooper Principal Architect Cox Communications</p> <p>Dr. Rob Thompson System Architect Sercomm Technology Inc.</p>	<p>Real World HFC Plant Migration to 1.8 GHz</p> <p>Examining developments in HFC architectures encompassing nodes with amplifier cascade depths of 5 amplifiers higher</p> <p>Developing detailed models to aid in predicting performance within these cascades</p> <p>Exploring the results from field testing conducted with DOCSIS® 4.0 downstream RF signals between 804 and 1764</p> <p>Mike Cooper Principal Architect Cox Communications</p> <p>HFC -The Gift That Keeps On Giving?</p> <p>Determining the extent to which the hybrid fiber-coax (HFC) platform can still address future services and demands</p> <p>Assessing HFC evolution opportunities, meeting the challenges and developing tools and methodologies in a practical and cost-effective manner</p> <p>Reducing implementation costs of fiber deeper and N+0 topologies while simplifying operations</p> <p>Understanding the architectural implications including the hybrid success-based FTTH-HFC evolution strategy</p> <p>Alberto Campos Fellow CableLabs</p> <p>Harmonizing FDX and FDD to Minimize ACI Impacts in 10G Networks</p> <p>Examining the standards-based features necessary to minimize the increasing impact of adjacent channel interference (ACI) for the future 10G networks</p> <p>Reviewing current ACI research and adding new data to provide a comprehensive overview of ACI as it applies to both frequency division duplex (FDD) and full duplex DOCSIS® (FDX) networks</p> <p>Offering recommendations for the minimization of ACI in the future 10G networks with a focus on FDD access networks</p> <p>Rob Thompson System Architect Sercomm Technology Inc.</p>
9.25.2024	<p>AI & Automation</p> <p>Finding the AI Advantage in Customer Experience</p>	3:45 PM - 5:00 PM EST	B407	<p>Asit Tandon Vice President, Network Technology Rogers Communications</p> <p>Ilana Weinstein Data Scientist Comcast</p> <p>Gavin Mitchell VP Product Quality Assurance Altice USA</p>	<p>Reducing Preventable Service Visits with Generative AI: Altice and Palantir</p> <p>Using AI, ML and data modelling to drive a data-driven approach to site visits</p> <p>Unlocking new ways of closing feedback cycles faster and more efficiently</p> <p>Lessons learned: Evaluating troubleshooting tools in real time, responding to changes in a more agile way</p> <p>Gavin Mitchell VP Product Quality Assurance Altice USA</p> <p>Causality for Customer Experience Anomalies with Real-Time vCMTS Telemetry and Machine Learning</p> <p>Utilizing machine learning techniques for root cause analysis</p> <p>Developing techniques to pinpoint the root cause behind anomalies detected</p> <p>Determining the extent to which automation can eliminate network monitoring boundaries beyond</p>

				<p>Juan David Rodriguez Lamus Director Business Analytics Liberty Latin America</p>	<p>software upgrades Examining the future potential of ML to run in real time and integrate with existing monitoring tools at scale Ilana Weinstein Data Scientist Comcast</p> <p>Customer Experience-Centric Network Investment and Interventions Through AI</p> <p>Implementing an AI-driven approach to prioritize a shift towards a more customer-centric network management strategy Moving beyond traditional KPIs allowing for strategic network intervention prioritization to reduce customer interactions and churn Using AI classification models for HFC and FTTH networks to predict which customers are likely to seek technical support Creating a blueprint for telcos to ensure investment strategies and network upgrades are directly aligned with improving the customer experience</p> <p>Juan Rodriguez AI and Advanced Analytics Sr. Director Liberty Latin America</p> <p>Moderator Asit Tandon Vice President, Network Technology Rogers Communications</p>
9.25.2024	<p>Wireless & Convergence</p> <p>Spectrum Utilization: Nationwide Measurements for New Spectrum Opportunities and Government Policy</p>	4:40 PM - 5:00 PM EST	The Loft	<p>Mark Poletti Director Mobile Networks and Principal Architect CableLabs</p>	<p>Exploring the design of the spectrum monitoring kit, data analytics algorithm, and results of the CableLabs nationwide campaign Using findings from the initiative to assess the need for and the value of the spectrum within their markets Refining wireless business case assumptions, developing spectrum advocacy strategies, and exploring technical solutions for expanding wireless services</p> <p>Mark Poletti Director Mobile Networks and Principle Architect CableLabs</p>
9.25.2024	Expo Happy Hour	5:00 PM - 6:00 PM EST	Exhibition Halls B1 - B3		<p>Cheers! Happy hour takes place in the exhibition after sessions end for the day. Throughout the exhibition attendees can mix and mingle with new and old connections. Happy hours are open to everyone and serve complimentary beer, wine and soft drinks.</p>
9.26.2024	International Cable-Tec Games Registration & Breakfast	8:00 AM - 9:00 AM EST			
9.26.2024	Exhibition Open	9:00 AM - 1:00 PM EST	Exhibition Halls B1 - B3		
9.26.2024	SCTE International Cable-Tec Games	9:00 AM - 12:45 PM EST			<p>International SCTE Cable-Tec Games is where the best cable technicians from around the world come to compete and showcase their skills. The year's winners from local cable games, typically held at chapter vendor shows or regional cable shows, will vie for the international gold, silver, and bronze awards.</p>

9.26.2024	<p>AI & Automation</p> <p>AI-Driven Insights for Outside Plant and Customer Premises</p>	9:30 AM - 10:45 AM EST		<p>Sanket Walavalkar Vice President Comcast</p> <p>Matt Wichman Dir Network Ops Comcast</p> <p>Dr. Maher Harb Distinguished Engineer Comcast</p> <p>Dr. Vikram Karwal Senior Data Scientist Rogers Communications</p>	<p>Automating Amplifier Analysis with PNM Full Band Capture, RxMER, for Activation of a Second OFDM Channel</p> <p>Understanding the operational challenges of deploying additional downstream channels</p> <p>Assessing the impact of total composite power on amplifier performance and linear operation, overall system performance and achievable capacity</p> <p>Reviewing the fundamental theory behind the phenomenon alongside examples obtained from lab measurements</p> <p>Introducing a method for detecting amplifier nonlinearity based on measuring the distortion noise from a cable modem's full band capture (FBC)</p> <p>Performing data analysis across the entire vCMTS footprint to inform deployment priority</p> <p>Developing a statistical model for the prediction of amplifier non-linearity</p> <p>Maher Harb Distinguished Engineer Comcast</p> <p>You Might Have a Screw Loose: Remote Detection of Thermal Imperfections</p> <p>Developing robust monitoring systems to detect thermal problems through a range of operating temperatures</p> <p>Using multiple sensors to remotely detect the thermal health of node and identify fixable problems before they impact performance</p> <p>Combining field studies and real-world trials together to turn remote sensor readings into actionable network intelligence</p> <p>Matt Wichman Director Network Operations Comcast</p> <p>Proactive Network Maintenance for Customer Premise Issues in DOCSIS® Network</p> <p>Developing a framework for efficient implementation of proactive network maintenance (PNM) when DOCSIS® 4.0 is implemented at scale</p> <p>Utilizing advanced predictive frameworks and deep learning models to enable timely identification and resolution of customer premise issues in DOCSIS® networks</p> <p>Leveraging data from a variety of sources to create holistic insights and address potential faults before they impact service quality</p> <p>Vikram Karwal Senior Data Scientist Rogers Communications</p>
9.26.2024	<p>AI & Automation</p> <p>Introducing RAG: How Can Retrieval Augmented Generation Fine-Tune your LLM</p>	9:30 AM - 10:45 AM EST	B308	<p>Jan Neumann Vice President, AI Technologies Comcast</p> <p>Tyler Glenn Principal Engineer CableLabs</p> <p>Dr. Santhana Chari VP, Broadband Analytics and</p>	<p>The Conversational Network: AI-Powered Language Models for Smarter Cable Operations</p> <p>How can GenAI help operators and vendors all be more efficient and effective</p> <p>Exploring the potential of GenAI and LLMs to solve operational challenges: Assisting technicians and engineers Improving on the job training Writing technical documents, standards, and specifications</p> <p>Lesson learned: Challenges, tactics, tools, information sharing and innovation.</p> <p>Tyler Glenn Principal Engineer CableLabs</p> <p>Supercharging Proactive Network</p>

				<p>Data Science OpenVault</p> <p>Mr. David Suh Lead Software Engineer Cox Communications</p>	<p>Maintenance by Leveraging Generative AI and ML</p> <p>Obtaining insights to develop tools and best practices for deploying AI/ML for DOCSIS® technologies</p> <p>Developing methods to to fine-tune and refine the performance of LLMs on domain-specific data: Retrieval Augmented Generation (RAG) and low rank adaption (LoRA)</p> <p>Building tools and sharing best practices for deploying AI/ML technologies</p> <p>Developing frameworks objective measures using NLP-based metrics to measure, track, and improve model performance and efficacy</p> <p>Santhana Chari VP, Broadband Analytics and Data Science OpenVault</p> <p>Leveraging JSON Data for a Network Data Chatbot</p> <p>Understanding the constraints; identifying corporate requirements and needs to further develop large language models (LLMs)</p> <p>Implementing a retrieval augmented generation (RAG) framework based on the LangChain orchestrator that runs an LLM agent</p> <p>Retrieving relevant network data in JSON snippets from a knowledge graph database</p> <p>Developing wider strategies to meet the requirements and needs in network data chatbots</p> <p>David Suh Lead Software Engineer Cox Communications</p> <p>Moderator Jan Neumann Senior Director, Applied AI Research Comcast</p>
9.26.2024	<p>Wireline Network Evolution</p> <p>Driving End-to-End IP Networking</p>	9:30 AM - 10:45 AM EST	The Loft	<p>John Chapman CTO Broadband & Fellow Industry</p> <p>Mark Goodwin Lead Network Engineer Cox Communications</p> <p>Deependra Malla Network Design Engineer Cox Communications</p> <p>John Huang Lead Communications Network Engineer Cox Communications</p>	<p>Evolution of Network Robustness and Resiliency in the CIN</p> <p>Utilizing a number of approaches in the design process and evolution of the Cox CIN to provide network resilience</p> <p>Understanding how to provide network resilience such as BGP multi-homing and fine-tuning of IGP/BGP protocol timers for optimal convergence</p> <p>Deploying resiliency strategies including PTP architecture enhancement, QoS fine-tuning, routing optimizations to ensure optimal unicast/multicast reachability</p> <p>Increasing the use of Proactive Network Health (PNH) measures to identify potential failures in a preemptive manner</p> <p>John Huang Lead Communications Network Engineer Cox Communications</p> <p>Routing Packets in Provider Networks: A Multi-Service Operators' Perspective</p> <p>Examining emerging approaches and strategies that are shaping the network architecture and routing design</p> <p>Optimizing routing protocols, meeting evolving security challenges and leveraging innovative technologies</p> <p>Understanding the role of multi-protocol label switching (MPLS) and segment routing (SR) in enhancing scalability, efficiency, flexibility, and network programmability</p> <p>Deependra Malla Network Design Engineer</p>

					<p>Cox Communications</p> <p>Modern BGP Route Reflection Architecture</p> <p>Focusing on design principles and optimization for platform, architecture, and routing</p> <p>Examining architectural considerations and proposing enhancements to improve scalability and create efficiencies</p> <p>Leveraging x86-appliances to achieve scalability, performance, and ease of management in BGP route reflection architecture</p> <p>Understanding the trade-offs and implementing best practices while maintaining stability and fault tolerance</p> <p>Mark Goodwin Lead Network Engineer Cox Communications</p>
9.26.2024	<p>Wireline Network Evolution</p> <p>Operationalizing and Automating PON</p>	9:30 AM - 10:30 AM EST	B401	<p>Dr. Curtis Knittle Vice President, Wired Technologies CableLabs</p> <p>Jon Schnoor Principal Architect, Wired Technologies CableLabs</p> <p>Michael Emmendorfer Vice President of Technology Calix</p>	<p>Navigating Interoperability Hurdles for XGS-PON Within the Cable Access Network</p> <p>Determining and overcoming the challenges to achieve interoperability as part of ITU-T based XGS-PON deployments</p> <p>Evaluating the solutions and options for implementing ITU-T based PON technologies</p> <p>Avoiding vendor lock in: How to maintain compatibility with legacy DOCSIS® provisioning and management systems</p> <p>Jon Schnoor Principal Architect, Wired Technologies CableLabs</p> <p>Beyond 10G PON Technologies and Network Slicing</p> <p>Exploring new use cases enabled by Passive Optical Networks (PON) and network slicing technologies</p> <p>Determining whether the next generation of PON will be a more cost-effective approach in the CIN and open up new revenue streams</p> <p>Deep dive into 10G, 25GS, 50G-ITU and 100+ PON technologies</p> <p>Michael Emmendorfer Vice President of Technology Calix</p>
9.26.2024	<p>AI & Automation</p> <p>Harnessing AI to Improve Network Reliability</p>	11:30 AM - 12:45 PM EST	B407	<p>Damian Poltz Senior Vice President, Wireline Networks Rogers Communications</p> <p>Nivedhitha Sridhar Data Scientist Comcast</p> <p>Madiha Sahar Presenter Rogers Communications</p>	<p>Smart Network: Graph-Based Network Analysis, Event Detection, and Outage Simulation</p> <p>Understanding the importance of real-time end-to-end visibility of the network footprint to monitor the health of the network and traffic flow</p> <p>Creating a blueprint by combining network topology with real-time device telemetry</p> <p>Exploring how to leverage graph algorithms to enhance the robustness, scalability, and intelligence of the network infrastructure</p> <p>Nivedhitha Sridhar Data Scientist Comcast</p> <p>Predictive Framework for Enhanced Wireline Network Reliability: Unveiling Anomalies and Streamlining Maintenance</p> <p>Enhancing network reliability and performance by developing a framework to predict wireline network failures</p> <p>Creating a tool with actionable insights to prioritize node maintenance and</p>

				<p>Dr. Jonathan Kwan Product Line Manager Fujitsu</p>	<p>facilitate field maintenance technicians</p> <p>Evaluating operational benchmarks and KPIs to conducting root cause analysis and predict the future state of the network</p> <p>Using the framework to enable the effective allocation of resources and enhance overall efficiency of network operations</p> <p>Madiha Sahar Presenter Rogers Telecommunications Inc.</p> <p>Alarm Root Cause Analysis Using AI/ML in MSO Networks</p> <p>Balancing resources to investigate and manage networks</p> <p>Implementing AI/ML techniques to suppress alarms, locate and partition the root cause of an alarm storm with high accuracy</p> <p>Reducing time-to-solution to increase customer satisfaction and network reliability</p> <p>Jonathan Kwan Product Line Manager Fujitsu</p> <p>Moderator Damian Poltz Senior Vice President, Wireline Networks Rogers Communications</p>
9.26.2024	<p>Wireline Network Evolution</p> <p>Optimizing DOCSIS® Capacity</p>	11:30 AM - 12:45 PM EST		<p>Karthik Sundaresan Distinguished Technologist & Director of HFC solutions CableLabs</p> <p>Jay Zhu Senior Principal Software Engineer Comcast</p> <p>Saifur Rahman Distinguished Engineer Comcast</p> <p>Richard Primerano Principal Engineer, Next Generation Access Network Comcast</p>	<p>Optimizing Spectrum Efficiency with Cloud-Based Load Balancing</p> <p>Examining a novel approach to the DOCSIS® channel load balancing</p> <p>Leveraging real-time telemetry and control APIs to implement channel load balancing as a cloud-based microservice</p> <p>Decoupling VCMTS functionalities and transforming them into reliable, flexible, and scalable services with operating observability</p> <p>Assessing the effectiveness of the approach for:</p> <p>Detecting imbalanced loads across the production network</p> <p>Improving channel utilization distribution at a minimal cost</p> <p>Increasing spectrum utilization efficiency</p> <p>Improving the customer experience</p> <p>Jay Zhu Senior Principal Software Engineer Comcast</p> <p>Unlocking 5% More OFDM/OFDMA Capacity with Cyclic Prefix Tuning</p> <p>Tuning the cyclic prefix (CP) length to maximize throughput while still maintaining robust communication</p> <p>Combining telemetry data captured from the live plant and real-time FPGA-based channel emulation to assess the impact of CP length</p> <p>Analyzing how CP overhead can be reduced to increase capacity across the network</p> <p>Richard Primerano Principal Engineer, Next Generation Access Network Comcast</p> <p>Extracting Additional DOCSIS® Upstream Capacity Without HFC Network Upgrades</p> <p>Developing strategies to get additional capacity out of a DOCSIS® system without upgrading</p> <p>Exploring methods to set upstream levels to add network capacity by setting different parts of the spectrum</p> <p>Transmitting the modem at the highest level to optimize capacity</p> <p>Lessons learned: How much capacity</p>

					<p>gains are possible by adjusting the return level while still staying within the constraints of cable modem transmit power</p> <p>Building a blueprint of how an automatic system can dynamically adjust the upstream level of the DOCSIS® network</p> <p>Saifur Rahman Distinguished Engineer Comcast</p> <p>Moderator Karthik Sundaresan Distinguished Technologist & Director of HFC solutions CableLabs</p>
9.26.2024	<p>Wireline Network Evolution</p> <p>Boosting Performance: PNM for Optical Networks</p>	11:30 AM - 12:45 PM EST		<p>Israel Madioed Innovation & Technology Director izzi (Televisa)</p> <p>Dr. Jason Rupe Distinguished Technologist CableLabs</p> <p>Robert-Jan van Minnen Senior Manager Network Analytics & Performance Planning Liberty Global - Liberty Tech</p> <p>Mr. Ben Ragel Senior Engineer Rogers Communications</p>	<p>Boosting FTTH Network Performance: Key Strategies</p> <p>Making the organizational shift required to effectively monitor the end-to-end performance for FTTH customers</p> <p>Reviewing the performance management strategy: Challenges and risks</p> <p>Fostering collaboration with cross-functional teams to strengthen the approach</p> <p>Recognizing the importance of continuous improvement and identifying key enhancements crucial for deployment</p> <p>Exploring the variances in architecture, protocols, telemetry, and operations</p> <p>Ben Ragel Senior PON Engineer Rogers Communications</p> <p>The Fiber Folding Ruler: Creating A Common 'KPI Language' for Operating Fiber Networks</p> <p>Exploring the challenges and opportunities of blending HFC and FTTH to manage faults, performance, and capacity in converged interconnect networks</p> <p>Proposing a common language and framework for network KPIs</p> <p>Driving industry collaboration and co-development</p> <p>Robert-Jan van Minnen Senior Manager Network Analytics & Performance Planning Liberty Global</p> <p>Operating Fiber Access the Cable Way: Challenges for the Industry to Overcome</p> <p>Understanding the different levels of complexity maintenance and operations in PON</p> <p>Building an optical operations and maintenance program that reduces troubleshooting and problem resolution time and costs while increasing network capacity and uptime</p> <p>Defining use cases that align to general architecture functions and network operations needs including fault and failure management and failure modes</p> <p>Identifying new potential capabilities to further reduce operations burdens</p> <p>Jason Rupe Distinguished Technologist CableLabs</p>
9.26.2024	SCTE International Cable-Tec Games Awards	12:45 PM - 1:00 PM EST			<p>Join us for the SCTE International Cable-Tec Games Awards ceremony as we celebrate the champions of the games.</p>