

AGENDA

SUN
AUG
2

REGISTRATION / INFORMATION 10am to 5pm
Location: Shavano Foyer

10:00am

DEMO MOVE-IN
Location: Grays Peak & Longs Peak

MON
AUG
3

REGISTRATION / INFORMATION 7am to 7pm
Location: Shavano Foyer

6:30am

BREAKFAST until 8:15am
Location: Quandary Peak I-III

8:15am

WELCOME/KEYNOTE
PHIL MCKINNEY
President & CEO, CableLabs
Location: Shavano Peak & Red Cloud Peak



9:00am

INNOVATION SHOWCASE part I
Location: Shavano Peak & Red Cloud Peak

10:00am

BREAK

10:30am

INNOVATION SHOWCASE part II
Location: Shavano Peak & Red Cloud Peak

11:30am

LUNCH until 1:15pm
Location: Quandary Peak I-III

Birds of a Feather Tables Location: Quandary Peak I-III

Tek Stadium demo floor until 2pm
Location: Grays Peak & Longs Peak



1:15pm

KEYNOTE
ROBERT SCOBLE
Futurist, Rackspace
Location: Shavano Peak & Red Cloud Peak



2:15pm

BREAK

2:45pm	CONCURRENT SESSIONS Business Technologies How can the industry collaborate and innovate to address the larger market opportunity in commercial services? We'll examine where technologies and systems need to improve to provide scalable solutions that address the needs of larger businesses. <i>Moderator: Jenifer Cistola, CableLabs</i> <i>Speakers: Mark Bridges, CableLabs; Cynthia Carpenter, Charter Communications; and Kevin O'Toole, Comcast</i> <u>Location:</u> Shavano Peak
3:45pm	BREAK
4:00pm	CONCURRENT SESSIONS How's Your User Experience? Over the past few years, consumers have been bombarded with a number of choices for consuming content. How must the cable industry design to maintain focus and function for today's and tomorrow's consumers? This panel seeks to explore ways in which relevant design for all industry products can attract and engage the hearts of users. <i>Moderator: Mickie Calkins, CableLabs</i> <i>Speakers: Peter Brown, Charter Communications; Heather Hollis, Comcast; and Margret Schmidt, TiVo</i> <u>Location:</u> Shavano Peak
5:00pm	Code the New Standard! Examine trends toward "working code" and the growing influence of open source with examples from CableLabs, members, and vendors. <i>Moderator: Arianne Hinds, CableLabs</i> <i>Speakers: Dave Neary, Red Hat; Nick Nielsen, Time Warner Cable; and Jan van Doorn, Comcast</i> <u>Location:</u> Red Cloud Peak
5:00pm	RECEPTION & TEK STADIUM demo floor until 7pm <u>Location:</u> Grays Peak and Longs Peak



TUE
AUG
4

REGISTRATION / INFORMATION 7am to 7pm
Location: Shavano Foyer

6:30am **BREAKFAST** until 8:30am
Location: Quandary Peak I-III

8:30am **GREETING**
PHIL MCKINNEY
President & CEO, CableLabs
Location: Shavano Peak & Red Cloud Peak



8:45am **KEYNOTE**
SUSIE WEE
Technologist
Location: Shavano Peak & Red Cloud Peak



9:30am **BREAK**

9:45am **CONCURRENT SESSIONS**
Wireless Convergence

Quad play service -- wireless and wireline video, broadband, and voice -- influence consumer purchasing decisions. Cable operators are reacting to these trends with new mobile service offerings, both MVNO and network owner approaches. Complimented by carrier grade and community Wi-Fi, and in some cases operator consolidation and network integration. Network convergence and integration provides efficiencies in network economics while new technologies such as LTE-A, eMBMS, VoLTE , Wi-Fi and Passpoint enable improved user experience and increased performance.

Moderator: Dan Rice, CableLabs *Speakers: Tim Burke, Liberty Global; Hanna Maurer Sibley, Ericsson; and Daniel Proulx, Videotron*
Location: Shavano Peak

Internet of Things: Consumer and Service Provider Perspectives on Viable Products and Services

While there have been initial successful home IoT-based products (e.g. Nest), a wide range of companies are vying to establish product and service leadership beyond the early adopter market. This session will examine how consumers view IoT products and services, and hurdles that need to be overcome before widespread adoption. The merits of open (Allseen, OIC) and closed (HomeKit) architectures and technical approaches for moving forward in a volatile and fragmented standards environment will be considered. We'll also explore service opportunities for cable operators beyond home such as in businesses, health, and education segments.

Moderator: Amol Bhagwat, CableLabs *Speakers: Rob Chandhok, Helium; Vince Groff, Cox Communications; Garey Hassler, CableLabs; and Stuart Sikes, Parks Associates*
Location: Red Cloud Peak

10:45am **BREAK**

11:00am	CONCURRENT SESSIONS Fast and Furious - Pushing Beyond 100G Over the past 15 years, aggregate data consumption on operator's networks has increased at a rate of 30-50% per year, with no signs of slowing down anytime soon. To keep up with this growth, operators and vendors have continued to raise the bar by offering higher speed services enabled by higher speed technologies. As we push data rates beyond 100G, some physical limits of established technologies start to become apparent. This session explores different ways operators and vendors can address the ever increasing bandwidth demands of consumers and businesses, while enabling them to leverage the existing and new fiber plant to the largest extent possible. <i>Moderator: Michael Sprenger, CableLabs</i> <i>Speakers: Steve Grubb, Infinera; John Leddy, Comcast; and Clifton Roberts, Corning</i> <u>Location:</u> Shavano Peak
	PitchIt Four technology companies will pitch their innovative technology products/services. A reflector panel comprised of venture capital executives will weigh in on the PitchIt presentations, offering critique and suggestions for success within the cable industry. <i>Presenting Companies: Rony Greenberg, eyeSight; Allan Torres, DataFission; Stephen Weigel, MailDeck; and Scott Wills, Playvision</i> <i>Reflector Panel: Matthew Carbonara, Comcast; Toby Krout, Boomtown; Ankur Prakash, LGI Ventures; and Keith Washington, Intel Capital</i> <u>Location:</u> Red Cloud Peak
NOON	LUNCH until 1:30pm <u>Location:</u> Quandary Peak I-III
	Birds of a Feather Tables <u>Location:</u> Quandary Peak I-III
	Tek Stadium demo floor until 2pm <u>Location:</u> Grays Peak & Longs Peak
1:30pm	KEYNOTE ANDREA GOLDSMITH, Ph.D. Stephen Harris Chair Professor of Engineering, Stanford University <u>Location:</u> Shavano Peak & Red Cloud Peak
2:30pm	BREAK



2:45pm

CONCURRENT SESSIONS

Benefits of Multicast Technology

IP Multicast allows operators to offer linear IP video services with maximum bandwidth conservation. How much bandwidth savings can operators expect by using IP Multicast? What infrastructure is required to support M-ABR? What are operators and vendors doing with IP Multicast? How will multicast technology be deployed in mobile networks and what are the implications?

Moderator: Bill Warga, Liberty Global *Speakers: Tom Gonder, Time Warner Cable; Jorge Salinger, Comcast; and Matt White, CableLabs*

Location: Shavano Peak

Unlicensed Spectrum

As Wi-Fi operators look to expand spectrum horizons, new mobile technology is clouding the view. How can new technologies and more spectrum be opened to improve Wi-Fi services and will unlicensed LTE threaten Wi-Fi progress?

Moderator: Justin Colwell, Charter Communications *Speakers: Rob Alderfer, CableLabs and Edgar Figueroa, Wi-Fi Alliance*

Location: Red Cloud Peak

3:45pm

BREAK

4:00pm

CONCURRENT SESSIONS

The Gigabit Home

With enhanced access network technologies offering more than 1 gigabit per second, speed is becoming a reality. There is a need to evaluate and analyze the existing home networking technologies and architectures to support multiple gigabits per second throughout the house. This panel will assess the current wired and wireless home networking technologies for next generation services.

Moderator: John Civiletto, Cox Communications *Speakers: Neeharika Allanki, CableLabs; Marek Hajduczenia, Bright House Networks; and Rob Thompson, Comcast*

Location: Shavano Peak

How Secure are Your Things? Enhancing the Customer Experience With IoT Security

As IoT devices proliferate on subscriber networks, with each device having different levels of security capabilities, levels of trust, and impact on the users, how can new architectures provide and enhance the security for customers? How can operators provide a secure, "it just works", seamless user experience for the wild world of IoT? Can security and usability become allies under these architectures? This panel will discuss future possibilities that could dramatically enhance the customer experience.

Moderator: Brian Scriber, CableLabs *Speakers: Matt Carothers, Cox Communications; Don Clarke, CableLabs; and Brian Witten, Symantec*

Location: Red Cloud Peak

5:00pm

RECEPTION & TEK STADIUM demo floor until 7:00pm

Location: Grays Peak & Longs Peak

