



The Spectrum

Newsletter of the Rocky Mountain Chapter

<http://www.scte-rockymountain.org/>

September 2014

Dear Rocky Mountain Chapter affiliated SCTE members

On behalf of the Rocky Mountain Chapter Board, I would like to encourage you to attend this year's SCTE Cable-Tec EXPO, which will take place the week of 22 - 26 September 2014. This year we are honoured that SCTE EXPO is being held in Denver and look forward to meeting our fellow cable MSO Partners and vendor community in September. Please see the last page for a free pass!!

The Seminars and EXPO are fantastic venues to learn from industry experts and to ask questions about challenges you may have in your own day-to-day work. Not only is the opportunity to learn from respected experts available, but The Rocky Mountain Chapter of SCTE is a great way to network within the local region. As in previous years, we will have a golf outing, Expo Workshops, a great list of speakers, a vendor exhibit hall, an IP Challenge, and the International Cable-Tec Games where the best of the best will compete.

A primary focus of this year's SCTE EXPO will be the subject of DOCSIS 3.1 which will be the "talk of the town" at EXPO 2014. Not only will DOCSIS 3.1 support the fastest speeds to date in MSOs networks, but it will also be developed and implemented faster than any previous version of DOCSIS. Silicon is under development and should become available during the 1st half of 2015, and systems development is already well underway.

So, it is not surprising that so many people registered to attend the pre-conference symposium on DOCSIS 3.1 and will likely attend the various panels. The presentations during these sessions will provide a great overview of the DOCSIS 3.1 specifications, allowing participants to get a good overall description of what is included in DOCSIS 3.1.

The following is a quick summary of some of the key objectives and aspects of DOCSIS 3.1.

The main objective of the DOCSIS 3.1 is to scale DOCSIS more efficiently, both from the cost and operations perspectives. The new features offered by DOCSIS 3.1 are geared towards more efficient use of spectrum. To that end, DOCSIS 3.1 can provide up to 50% more capacity in the same spectrum than previous versions of DOCSIS.

Given the new features of DOCSIS 3.1, some of which will require enhancements of tools, systems and processes, some MSOs are already planning for the eventual deployment of DOCSIS 3.1. The attached table summarizes just a few of the areas where planning and development might be required.

HFC Network	Plan to make the required spectrum available, implement methodologies to free up spectrum as needed, and establish processes for any required maintenance changes	As
Field Operations	Establish the appropriate metrics, develop the corresponding standards and implement the required telemetry to install & operate the new DOCSIS 3.1 signals	
Network Management and Support	Develop methodologies and tools to monitor capacity and utilization of the new DOCSIS 3.1 capacity, trouble isolation and resolution, device data gathering, and customer interaction	
Equipment Testing and Certification	Develop any operator equipment specification changes due to DOCSIS 3.1, enhance operational test plans, and implement the required MSO certification for the established configurations	

DOCSIS 3.1 makes its way from the drawing board to products and into the field, SCTE EXPO will be providing many panels and vendor exhibits to explore what our future will bring. Please take advantage of this great opportunity to attend the SCTE EXPO and gear up for the future of the cable industry.

What else has the Rocky Mountain Chapter been doing??

This past June, The Rocky Mountain Chapter hosted the 2014 Symposium at the Inverness Hotel in Englewood, CO. The Symposium was well attended by the Rocky Mountain Chapter with excellent speakers and topics along with over 70 Vendors in attendance.

The CableTec games were conducted on Tuesday evening, to allow the largest possible attendance from MSO's technical staff. 8 teams, each with 4 participants, competed to obtain the highest scores in the following categories: fiber splicing, coaxial splicing, meter reading, TDR/OTRD and jeopardy. Prizes were given in several categories, 1st, 2nd and 3rd place winners for each game and 1st, 2nd and 3rd place winners for the overall event. The 1st place winner for the overall event was awarded a free attendance to the 2014 Cable Expo in Denver, including any expenses paid by the RMC.

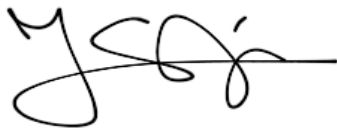
As a successful repeat effort from last year Rocky Mountain Chapter invited a local High School Robotics team to display their robot creation, "Kraken", on the show floor. The George Washington High FIRST Robotics Competition (FRC) 1410 Robotics team is part of the FIRST program that former cable industry veteran, Doug Semon, has volunteered his time and energy to be a mentor to the team. FIRST is the "For Inspiration and Recognition of Science and Technology" (FIRST) that

supports competition for the mind. "Kraken" is the brainchild of several high school students that have designed, fabricated, and now operate in competitions with other high schools robotics teams. The team is lead by Ben Papadopoulos of George Washington High and through his tutelage has created a team of very industrious future potential engineers. The team of students were all very professional, remarkable in raising awareness about the FIRST program and viewed as a great value add for the SCTE show. It is the RM Chapters' hope that we have created more interest for these great students to potentially work in the Telecommunications space in the future.

Finally, I would like to encourage everyone to become involved in SCTE. We have a full slate of events/seminars that are open to all members to help provide more insight to many aspects of our industry. New members and active members continue to bring new and fresh ideas that help make our Chapter one of the best in the country. If you know of work colleagues that might benefit by being a member of the SCTE and the Rocky Mountain Chapter, please encourage them to register on our website or contact one of our current members.

We look forward to seeing everyone at the Symposium next week for a fantastic line up of Industry leaders and roundtables.

Sincerely,

A handwritten signature in black ink, appearing to read 'J Salinger', with a long horizontal line extending to the right.

Jorge Salinger – President, SCTE – Rocky Mountain Chapter

Upcoming Elections

Please note that our yearly elections are coming shortly. We will have separate announcements, but in the meantime, candidates can submit their applications in October, the ballot will go out in late November, and the elections will be early December. Please apply and join the board!!

Past Seminar Recordings

Built especially for SCTE members affiliated with Rocky Mountain Chapter

<http://scte-rmc.org/information-central/seminar-videos> :

- Introduction to DOCSIS 3.1 - Apr 17, 2014
- LTE Interference Seminar - Mar 27, 2014

- Commercial Services Seminar - Feb 20, 2014
- The Transition From Conditional Access to DRM Seminar - Dec 20, 2013
- IPv4 to IPv6 Webinar / Seminar - Sep 19, 2013
- IPv4 to IPv6 Webinar / Seminar - Feb 07, 2013

SAVE THE DATE – Upcoming Seminars

Date	Location	Subject
Sept 11 th , 2014	Charter – Fiddlers Green facility	IP video Basic/Future state
Nov 4 th , 2014	Cable Center	Executive Round Table – 2015 and Beyond
Nov 6 th , 2014	CableLabs	Next-Gen access technologies include DPoE, EPoC, Remote PHY
January 2015	Charter – Fiddlers Green facility	Fundamentals of SDV, Digital video and MPEG video

How You Can Contribute to the Cable Industry? By Tom Gorman



Tom Gorman is the President of opXL, LLC. A 36 year industry veteran, over his career, he has worked for Prime Cable, Comcast, Jones Intercable, and Charter. In January 2012, he started opXL, LLC to support companies in improving operations. Tom has authored numerous articles on workforce management, automation and dynamic dispatching. He has been an SCTE member since 1982, and was the founder and first president of the Chesapeake Chapter in the Baltimore, Washington area. In 2007, he was inducted into the SCTE engineering hall of fame. He served on the board of directors for 6 years and was its chairman from 2007 to 2009. During his tenure as chairman Tom was instrumental in leading the board through significant structural changes in order to increase the value of SCTE to the industry. In 2011, he was rewarded for those efforts, by being named SCTE's member of the year. He can be reached at tom@opxl.net, or 303.502.4982.

Did you know that many of your board and chapter members are busy educating the industry by writing articles, holding seminars, or leading industry events? How did they do that? It's amazingly easy to contribute your expertise! Any of us who have written books, published articles or stood in front of our peers had to start somewhere. Many of the trade magazines that are out there are always interested in getting new insights from people in the industry. You don't have to have a fancy title to write an article and submit it to any of them. Broadband Technology report (BTReport.net), CED magazine and Broadband Library are a few magazines that are always interested in finding new content. The nice thing you have available to you are fellow members who can even give you guidance on how to write, create a presentation, or contact some of the trade journals to contribute to. As it turns out all of us who have done these things are just a phone call or an email away. One of the things that my company has started doing with our clients is to provide presentation coaching. Call me and you might get it for free as a fellow

SCTE member! To really understand the resources that are available to you, you only need to look at the list of members and board directors to see that the Rocky Mountain chapter is filled with experienced authors, contributors, inventors and presenters. Here's a few of them:

Michael Adams	Alan Babcock
Jeff Baumgartner	Paul Biederman
Jim Chiddix	Richard Covell
Marty Davidson	Wayne Davis
Frank Eichenlaub	Marwan Fawaz
Tom Gorman	Ron Hranac
Maria Popo	Jay Rolls
Jorge Salinger	Nick Segura
Ray Thomas	Karl Webber

2014 Elected Board of Directors

Name	Email	Company	Position	Phone Number
Jorge Salinger	jorge_salinger@cable.comcast.com	Comcast	President	215 439-1721
Tom Gorman	tom@OPXL.net	opXL	Vice President	303 502-4982
Stephanie Trotter	stephanie.trotter@twcable.com	TWC	Treasurer	303-880-9659
Lane Johnson	l.johnson@cablelabs.com	CableLabs	Secretary	303-717-5123
Rex Kohart	rex_kohart@cable.comcast.com	Comcast	Board Member	303-603-5639
Keith Nichols	keith.nichols@twcable.com	TWC	Board Member	720-279-2834
Philip Yang	philip.yang@cable.comcast.com	Comcast	Board Member	720-267-7170
Nick Segura	nick.segura@charter.com	Charter	Board, Region II Representative	303-669-3705
Steve Murphy	steve_murphy@cable.comcast.com	Comcast	Board Member	720-267-3038
Kevin Bland	kevin.bland@charter.com	Charter	Board Member & Webmaster	303-903-5758

Supporting Associate Board Members 2014

Name	email	Company	Position	Phone Number
Cathy Wilson	cathy@broadbandlibrary.com	Broadband Library	Board Associate	303 759-2405
Dave Krook	David_Krook@cable.comcast.com	Comcast	Board Associate	303-408-4116
Dave Robinson	drobenson@ipitresources.com	IPIT Resources, INC	Board Associate & Newsletter Editor	303-537-5678
James Baron	James.Baron@charter.com	Charter	Board Associate	303-323-6071
Joe O'Fallon	joe.ofallon@ge.com	GE Energy	Board Associate	303-670-7450
Maria Popo	maria.popo@ubeeinteractive.com	Ubee Interactive	Board Associate	303-683-5205
Mark Thompson	thompson@commscope.com	CommScope	Board Associate	303-773-3003

Neil Serafin	neil.serafin@iconcable.com	iCON Cable	Board Associate / Spkr	720-997-9658
Richard Covell	rgcovell@msn.com	TTSI	Board Associate / Spkr	303-646-5050
Robert Kostelny	rob.kostelny@comcast.net	Tetrattech	Board Associate	303-995-6689
Ron Hranac	rhranacj@cisco.com	Cisco	Board Associate / Spkr	720-875-1338



Your Colorado Rocky Mountain Chapter encourages you to join us at EXPO by registering here: <http://expo.scte.org/attendees/registration-types-and-pricing/>

Get this SCTE Cable-Tec Expo 2014 Exhibitor Guest Pass downloadable form to fill out here: http://www.scte.org/Expo2014/Exhibitors/Expo14_ExhGuestPass.pdf, or go online to get your complimentary exhibitor guest

pass: <https://register.rcsreg.com/r2/cte2014/ga/clear.html> (Please note these are floor passes ONLY)

- SCTE members, using the complimentary pass, may enter their individual member number on the opening registration page to pre-populate the online form with their personal contact information. (Nonmembers should select the “Continue” button on this page).

- **IMPORTANT!** The Exhibitor Guest pass code, 30250, *must* be entered on the web registration form in order to override the customary \$175 fee. Enter “30250” at the bottom of the contact information screen where the label in red appears, “**Complimentary Exhibitor/Chapter/Other Guest Pass**”.

- We suggest pre-registering online as this will prevent your waiting in line at registration in the Colorado Convention Center. Just bring your printed bar-coded confirmation and proceed to “Attendee Express Registration”.