



ANSI-Accredited Standards Committee C63[®]
Electromagnetic Compatibility

Chair: [Dan Hoolihan](#)
 Vice-Chair: [Dan Sigouin](#)
 Secretary: [Jerry Ramie](#)

November 12, 2015 – 8:00 am to 3:30 pm
UL LLC, 12 Laboratory Drive, Research Triangle Park, NC 27709

1. **Call to Order - Chair** – called the meeting to order at 8:02AM-EST.
 - 1.1. **Introductions** (roll call) - **Secretary** - members in attendance are shown:

MEMBER	PRIMARY	ALTERNATE
ACIL		
Alcatel – Lucent	Moongilan, Dheena	Vacant
Apple, Inc.		O’Dwyer, Michael
ARRL – The National Assoc. for Amateur Radio	Hare, Ed	
Blackberry Corporation	Attayi, Masud	
Bureau Veritas		Vacant
CISCO Systems	Griffin, Andy	
Dell Inc.		Vacant
ETS – Lindgren	Chen, Zhong	
Federal Communications Commission		Jones, Steve
Food and Drug Administration	Silberberg, Jeffrey L	
Industry Canada		
Information Technology Industry Council	Hirvela, John	
IEEE – EMC Society	Norgard, John	
Liberty Labs	Howard, Mike	
Motorola Mobility	Knipple, Tom	Vacant
Motorola Solutions	Elliott, William [Mac]	
National Institute of Standards & Technology		Hackett, Beth
Northwest EMC	Ghizzone, Dean	Kiemel, Greg
PCTEST Engineering Laboratory		Ward, Dennis
Qualcomm Technologies, Inc.		
Society of Automotive Engineers	Andersen, Poul	
SPAWAR - US Navy	Dilay, Chris	Wojtaszek, Tomasz
Telecommunications Industry Association	Whitesell, Stephen	Vacant

Telecomm. Certif. Body (TCB) Council	Wall, Art	
TÜV SÜD America, Inc.		
UL-LLC	DeLisi, Bob	Moser, Jeffery
US Department of Defense - Joint Spectrum Ctr.	Shellman, Marcus	Duncanson, Michael
Individual Members:		
INDIVIDUAL Member	Hoolihan, Daniel	None
INDIVIDUAL Member		None
INDIVIDUAL Member		None
INDIVIDUAL Member		None
INDIVIDUAL Member	Berger, Stephen	None
INDIVIDUAL Member	Heirman, Don	None
INDIVIDUAL Member	Sigouin, Dan	None
Emeritus Members:		
MEMBER Emeritus		None
MEMBER Emeritus		None
MEMBER Emeritus		None

Observers: Jerry Ramie, Sue Vogel, Victor Kuczynski, Janet O’Neil, Mark Arthurs, Randy Long, Brad Moore, Allen Crumm, Megan McConnell, Khairul Zainal,

Quorum: 28 organizations + 7 individual members = 35 total. A quorum is 50%; which is 18 or more members in attendance. Quorum was achieved with 26 members attending the meeting.

2. Approval of the Agenda

2.1 Approval of agenda - Chair - The [draft agenda](#) was shown line-by-line. Mr. Heirman moved to accept it, seconded by Mr. Sigouin. The Agenda was approved as presented.

2.2 Presentation of patent slides - Ramie The patent slides were shown and no patent issues were raised. **AI-12:** Jerry to re-title patent slide link on our [Stds Development page](#) to "[C63 Patent Slide Set](#)"

3. Chairman’s Report – Hoolihan

3.1 General – Chairman Hoolihan thanked UL for their outstanding hospitality exhibited at the North Carolina facility. Ross Hansen (a former member of C63-SC6) was riding his bike in a 100-mile road race this past summer when he lost control coming down a steep hill, hit a tree, and passed away as a result of the impact. A few moments of silence were utilized to honor his service to the Committee. Our next series of meetings will be May 9-12 (2016) at the IEEE Operations Center in Piscataway, NJ. We have a new Main Committee Organizational member, Qualcomm. We also have a new Main Committee individual member in Dan Sigouin (who is our current Vice Chair). TUV-SUD America has a new primary member, Dave Schaefer.

3.2 FCC Interactions - Comments were submitted to the FCC on the Notice of Proposed Rulemaking ET Docket No. 15-105 (LTE-U and LAA Technologies) as well as [Comments](#) and [Reply Comments](#) on ET Docket No. 15-170 (RM-11673) – “In the Matter of Amendment of Parts 0, 1, 2, 15, and 18 of the Commission’s Rules Regarding Authorization of Radiofrequency Equipment and Request for the Allowance of Optional Electronic Labeling for Wireless Devices.”

4. Vice-Chairman’s Report - Sigouin - Thanks to UL for their hospitality and use of their facility.

5. **Secretary's Report – [Minutes of the last Meeting \(May - 2015\)](#) – Ramie** Mr. Ramie showed the [20150507_DRAFT_Main_Committee_Minutes3](#) in a page-by-page manner. Mr. Hare moved to approve the minutes, seconded by Mr. Heirman. The Minutes were [approved](#) by a unanimous voice vote.
6. **[Secretariat Report](#) – IEEE – Sue Vogel**
 - 6.1 - **Status of C63[®] published standards**
 - 6.1.1 **Fourth Anniversary standards**
 - 6.1.2 **Ten-years or older standards**
 - 6.2 – **Status of PINS and PINS-C**
7. **Ad Hoc Committee Report on Revising our C63[®] Procedures – Ghizzone** – Mr. Ghizzone reported that the Ad Hoc Committee is very close to completion of our new C63-Committee procedures. They will be reviewed by the IEEE and ANSI in parallel with requesting comments from the Members of the Main Committee. They address revisions as currently written and Mr. Heirman noted that we will include "limited revisions" in ANSI parlance. (Amendments and Corrigenda)
8. **Subcommittee reports** (Brief written reports to include actions needed by C63[®], and items of particular interest during the Subcommittee meetings).
Note: Reports should be provided on Power Point slide(s) using the [C63[®] template](#)
 - 8.1. **[SC1: Measurement and Instrumentation - Chen](#)** - Mr. Chen moved to adopt the [PINS for C63.10](#), which was shown. The motion came from a subcommittee, required no second, and was carried by acclamation. Mr. Chen moved to adopt the [PINS-C for the second edition of C63.26](#), a study project which was shown. The motion came from a subcommittee, required no second, and the motion was carried by acclamation. A list of Interpretation Requests was shown in the [SC1 report](#).
***** BREAK *****
 - 8.2. **[SC2: Definitions – Dilay](#)**
 - 8.3. **[SC3: International Standardization – Andersen](#)** - Mr. Andersen's term as SC3 Chair ends at the end of this year. Candidates can contact Mr. Andersen or Mr. Hoolihan as soon as possible if they are interested.
 - 8.4. **[SC5: Immunity testing – Whitesell](#)**
 - 8.5. **[SC6: Laboratory Accreditation – Long](#)** - Mr. Long moved to suspend the work on C63.11 and delete the Membership roster. It was seconded by Mr. Hare as the wording was changed slightly. After a brief discussion, the motion was carried unanimously by a voice vote. **AI-13:** Jerry to change the text in our [Status of Standards Matrix](#) to reflect the suspension of work on C63.11 and depopulate the roster.
 - 8.6. **[SC7: Unlicensed Personal Comm. Services – Berger](#)**
 - 8.7. **[SC8: Medical Equipment Testing – DeLisi](#)** - Mr. DeLisi noted that Mr. Berger will be the new SC8 Chair. Mr. DeLisi proposed a [PINS to modify C63.19](#), which was shown. The Motion came from a Subcommittee so no second was required. There were no comments or questions. The motion was approved by acclamation in a voice-vote. Mr. Berger solicited the attendees to join this working group.
9. **New Business**
 - 9.1. **[Interpretations - Hoolihan](#)** – Mr. Hoolihan introduced the topic and described in general the status of the Committee's interpretations process. Mr. Wall thought that an informal process like ours could be improved by using the "limited revision" process outlined in the [Secretariat report](#).

Mr. Griffin noted that the IEC does not use Interpretations. He thought our Interpretations

process was too formal (We could scrap the Interpretations process and only use "limited revision" process discussed). He also thought that the readability of our standards could be improved. For example, he stated that "We usually include work instructions as well as Standard content in our standards and we may be adding too much detail."

Mr. Kuczynski pointed out that our Standards are not intended for the general public. Additional background information can be useful. Some interpretations might suggest that the reader is not familiar with the technical aspects of the document. Our intention was good to have a formal Interpretations process. He thought we should consider changing the process, as Mr. Griffin suggested.

Mr. Silberberg noted the IEC process presently separates rationale from technical content. He thought that was important for increasing understanding.

Mr. Ward stated that we can move quickly or move formally, but not both. It's better to have interpretations associated with the Standard to increase understanding. One person can stop our process using the existing Procedure. We should eliminate the idea that one person can demand a ballot. Mr. Hoolihan pointed out that this has been addressed in the new draft Procedures from Mr. Ghizzone.

Mr. Whitesell pointed out that an Addendum adds material while a Corrigenda corrects errors. Interpretations re-state existing content. Interpretations are informative, while amendments are normative.

Mr. Hirvela asked "who can we steal a process from?" Mr. Hoolihan noted that we are getting somewhat faster with our Interpretations than in the past. Mr. Heirman stated that we are being asked to change the document with our Interpretations. We are finding that some figures and text need changes. If we used Addendums, it would still take time.

Mr. Hare pointed out that some requests are simple questions and some are substantive. We have no way to answer a simple question. He didn't want to see all Interpretations become an Amendment or Corrigenda.

Ms. Vogel noted that other SDOs use a Committee to handle Interpretations. Responses are screened according to their procedures. In some cases, they can't come to a consensus response, so all Interpretations are balloted. The IEEE eliminated all Interpretations due to liability concerns. She suggested that IEEE legal counsel look at our procedures. The Chair noted that they were approved by ANSI four years ago.

Mr. DeLisi liked the idea that we could use "limited revisions." Mr. Wall was encouraged that we are having this discussion as Interpretations have a limited use. He noted that some of our Interpretations are really amendments that change the technical content, which has been his concern in the recent past.

Mr. Kiemel stated that the only Interpretation he is concerned about will come from a Regulator. We have no filter on incoming Requests for Interpretation. He suggested that we revisit the entire Interpretations process and make it a choke point to control the input to our time.

Mr. Berger suggested a C63 group on LinkedIn or Facebook could handle routine requests. Mr. Bazhanov pointed out that IEC documents are not written by native English speakers. There is little clarification available. Our detail is a learning opportunity for our readers, but we can shorten our wording and tighten the editing.

Mr. Kuczynski agreed that we generate "communicative" Standards but Rationale would help in reader understanding. Often, our requests ask for things that are not addressed in the document.

Mr. Ward stated that some documents in Europe use "Technical Guidance Notes," which

are similar to "Standards Rationale". Maybe this could be used here. Accreditors should not interpret our documents. Call it what you want, but we need to explain what we meant. If there's a question, it needs to be addressed.

Mr. Ghizzone asked what NVLAP thinks of all this. Ms. Hackett noted that they cannot assess labs to informative documents. Mr. Long agreed that Interpretations are not normative, but all Accreditors have an appeal process.

Mr. Heirman was bothered by requests for changes in wording. They ignore the content they don't like. If we can re-word content in our Interpretations, that also takes a lot of time. We need to remember why we used the language originally.

Mr. Chen felt that it would be better if the SC Chair could filter out the weak or inappropriate requests

Ms. Vogel reported that three Amendments are usually allowed, but not four, in the IEEE standards world before a new revision of the standard must be written.

Mr. Hoolihan thanked the Committee for the many excellent comments on the subject of Interpretations. He thought we should continue with Clause 11 as it is and he STRONGLY RECOMMENDED that we use the new "limited revision" process from ANSI to change content as needed. He also STRONGLY RECOMMENDED that Working Group Chairs add a separate Appendix devoted to the RATIONALE FOR THE REQUIREMENTS IN THE STANDARDS that they are developing. An excellent model for this concept is Appendix A of MIL-STD 461F. **AI-14:** Each subcommittee and working group chair shall look over their [Interpretations](#) to see if they need to be converted to an Amendment or Corrigenda (called a "limited revision" under ANSI rules).

***** BREAK *****

9.2. New Subcommittee – [Proposal](#) - Hoolihan - There was a [proposal](#) from the Steering Committee to form a new Subcommittee 4. The proposed title and scope was shown as below:

Title: "Wireless and ISM equipment measurements"

Scope: "Subcommittee 4 provides the technical expertise and resources necessary for maintaining existing and newly proposed C63® approved standard documents for measuring RF emissions from wireless and ISM equipment."

This discussion has been on-going for several months at the Steering Committee level. SC1 has historically had a majority of the Committee's standards and the strategy of the steering committee has been to move some of those standards to other subcommittees. Mr. Hoolihan proposed five standards or proposed standards be moved to a new Subcommittee 4: C63.10, C63.26, C63.29, C63.30, and C63.31. After significant discussion, the Scope text was amended to read:

Amended Scope: "Subcommittee 4 provides the technical expertise and resources necessary for developing and maintaining standards documents for measurements of wireless and ISM equipment."

Title: "Wireless and ISM equipment measurements"

Mr. Berger moved to accept the Title and Amended Scope as above, seconded by Mr. Hare. Additional discussion ensued. Mr. Wall proposed a friendly amendment to propose a new subcommittee with the title and amended scope shown above. A lunch break was called.

***** BREAK *****

Discussion resumed. Mr. DeLisi asked what structure the new SC might adopt. He felt

that C63.10 and C63.26 were techniques and therefore still belonged in SC1. Mr. Wall noted that he has been chairing C63.10 and C63.26 and can continue while we're in transition. He felt that there were many people in the working groups that were qualified to assume Working Group leadership roles.

Mr. DeLisi asked if the list of Standards shown will automatically be placed under the new SC4. The consensus of the Committee was that "The motion was to form a subcommittee with the title and modified Scope shown above." Mr. Wall proposed an amendment, (seconded by Mr. Whitesell), to the original motion to form the subcommittee with the Title, Scope and duties (five Standards) above. Mr. Ward asked if we needed to change the Scope of SC1. The Chair noted that was not the case. Mr. Chen asked what synergy exists between wireless and ISM Standards. There was no way to add new work outside wireless or ISM. The motion to form a new Subcommittee 4 carried unanimously by voice vote. Mr. Wall was asked to lead the SC4 activities as the interim SC4 Chair. AI-15: Mr. Wall to solicit members for SC4 from the Main Committee and associated working groups. Non-members would be required to pay Subcommittee membership fees. Working group members would still be able to serve without fees.

9.3. Subcommittee Chair Elections – Hoolihan - The Subcommittee Chairs are appointed by the Main Committee Chair after their election in their respective subcommittees.. Newly-elected subcommittee chairs, for a three-year term, included Randy Long (SC6), Vladimir Bazhanov (SC7) and Steve Berger (SC8). Mr. Hoolihan vocally appointed the three chairs. Mr. Hare moved, seconded by Mr. Heirman, to approve these appointments. There were no objections and the appointments were approved by acclamation.

9.4. FCC Submittal Process - Hoolihan - We formed a task force, Chaired by Mr. Hare, to submit [comments](#). Mr. Hirvela felt that the views of the committee were not vetted at the Main level. He felt that a procedure may be needed or amended to require such vetting. The Chair noted that we were running out of time and had communication breakdown issues and needed to provide comments by the end of that week.

Mr. Heirman looked for other organizations that supported our original filing. He felt comfortable that we were not in conflict with our original filing. Mr. Hirvela was asked if "ex parte" comments were appropriate at this point. He felt that the task force, chaired by Mr. Hare, should revisit the reply comments. AI-16: Mr. Hare to revisit the [reply comments](#) for the FCC with his task force. The bottom line was that the task force did not meet to form our response in a timely manner.

10. Other Administrative Matters

10.1. Web Page – Ramie - AI-17: Jerry will have the new SC4 landing page and roster page generated by Ms. Archambeault. AI-18: Jerry to have Ms. Archambeault add an SC4 link to that landing page on the [Subcommittees page](#). AI-19: Jerry to have Ms. Archambeault generate an SC4 private area and insert a link to it on the [Members Area](#) page and provide the FTP and Browsing credentials needed for access. Members need to police their content on the site and send any desired corrections to Mr. Ramie visually, showing what "correct" content looks like to avoid language misunderstandings. Subcommittee and Working Group Chairs also need to make sure their rosters are current by visiting the [website](#) and reporting any edits needed as above.

10.2. Administrative matters from the Steering Committee - Mr. Hirvela asked if there was a financial report. The Chair noted that we changed to a calendar year and the report will be ready at the next meeting.

11. Other Business

11.1 Future Seminars and Workshops – Heirman - The [Education Report](#) was shown. AI-20: Jerry to send an e-mail to voting Members asking for further ideas for

educational meeting venues. Mr. Kiemel noted that the TCB Council meetings draw 140 people, usually running Tuesday through Thursday. We can probably find attendees there.

11.2 Newsletter report – Zimmerman - We published the latest newsletter ([2015 October Newsletter – Issue 39](#)) in October. ([List of Newsletters](#)) Please send timely summaries of your subcommittee activities to Mr. Zimmerman for inclusion in the next newsletter.

11.3. Next meeting – May 9-12, 2016 at IEEE headquarters in Piscataway, NJ

12. Old Business

12.1 Action item review on items not covered elsewhere on Agenda – as time permits - Secretary

Consolidated Action Items from Main Committee Meeting 05/07/15¹

Action Item #	Subject	Responsible Person	Status	Delivery Date	Comments
AI-94:	Steering committee to respond to Mr. Schaefer's submission about dated references	C63@ Steering Committee	Open	11/12/15	Open
New Action Items					
AI-01:	Mr. Ghizzone will set up monthly Ad Hoc Committee web meetings to integrate Mr. Griffin's flow chart.	Mr. Ghizzone	Open	11/12/15	Closed
AI-02:	Mr. Heirman will check the ANSI essential requirements regarding amendments, corrigenda and errata and report to Mr. Ghizzone's Ad Hoc committee	Mr. Heirman	Open	11/12/15	Closed
AI-03:	Ms. Roder to ask the IEEE legal department to prepare a patent tutorial for us at our next meeting	Ms. Roder	Open	11/12/15	Closed
AI-04:	Mr. Wall to provide the Wireless Power Transfer (WPT) minutes to Mr. Silberberg	Mr. Wall	Open	11/12/15	Closed
AI-05:	Mr. Ramie to remove Mr. Hoffman from the SC1 roster	Mr. Ramie	CLOSED	11/12/15	5/22/15
AI-06:	Mr. Dilay to remove Mr. Ramie from the SC2 membership roster	Mr. Dilay Mr. Ramie	CLOSED	11/12/15	5/22/15
AI-07:	Mr. Ramie to change SC3 web page to show "Duties" rather than "Main Activities" and post the new SC3 Membership roster	Mr. Ramie	CLOSED	11/12/15	5/22/15
AI-08:	Mr. Ramie will add C63.12 to the list of SC3 Duties	Mr. Ramie	CLOSED	11/12/15	5/22/15
AI-09:	Mr. Ramie to separate the voting and non-voting members in the SC3 roster	Mr. Ramie	CLOSED	11/12/15	5/22/15
AI-10:	Ms. Roder to form the balloting group and run a formal C63.16 ballot on Draft 3.0	Ms. Roder	Open	11/12/15	Closed
AI-11:	Mr. Hoolihan to propose changes in our standards revision process in response to Mr. Schaefer's input	Mr. Hoolihan	Open	11/12/15	Open

¹ Consolidated (re-numbered) action items are included here for reference, but are not a part of the minutes.

13. Adjournment - The meeting was adjourned at 1:41PM-EST.

End of Meeting

Consolidated Action Items from Main Committee Meeting 11/12/15²

Action Item #	Subject	Responsible Person	Status	Delivery Date	Comments
AI-94:	Steering committee to respond to Mr. Schaefer's submission about dated references	C63@ Steering Committee	Open	5/12/16	
AI-11:	Mr. Hoolihan to propose changes in our standards revision process in response to Mr. Schaefer's input	Mr. Hoolihan	Open	5/12/16	
New Action Items					
AI-12:	Jerry to re-title patent slide link on our Stds Development page to " C63 Patent Slide Set "	Jerry Ramie	Closed	5/12/16	Changed 11/20
AI-13:	Jerry to change the text in our Status of Standards Matrix to reflect the suspension of work on C63.11 and depopulate the roster	Jerry Ramie	Closed	5/12/16	Changed 11/20
AI-14:	Each subcommittee chair should look over their Interpretations to see if they need to be converted to an Amendment or Corrigenda (called a "limited revision" under ANSI rules)	All Subcommittee Chairs	Open	5/12/16	
AI-15:	Mr. Wall to solicit members for SC4 from the Main Committee and associated working groups	Art Wall	Open	5/12/16	
AI-16:	Mr. Hare to revisit the reply comments for the FCC with his task force	Ed Hare	Open	5/12/16	
AI-17:	Jerry will have the new SC4 landing page and roster page generated by Ms. Archambeault	Jerry Ramie	Closed	5/12/16	Posted 11/27
AI-18:	Jerry to have Ms. Archambeault add an SC4 link to that landing page on the Subcommittees page	Jerry Ramie	Closed	5/12/16	Posted 11/27
AI-19:	Jerry to have Ms. Archambeault generate an SC4 private area and insert a link to it on the Members Area page and provide the FTP and Browsing credentials needed for access	Jerry Ramie	Closed	5/12/16	Posted 11/27
AI-20:	Jerry to send an e-mail to voting Members asking for further ideas for educational meeting venues	Jerry Ramie	Closed	5/12/16	Sent 11/28

² Consolidated (re-numbered) action items are included here for reference, but are not a part of the minutes.

Attachments from Main Committee Meeting 11/12/15³

Agenda Item #	Description	Filename
2.1	Draft agenda	http://www.c63.org/documents/misc/minutes/2015_Nov/2015_November%20-%20DRAFT_main_committee_agenda.doc
2.2	C63® Patent slides	http://www.c63.org/documents/misc/patents/C63_Patent_Call_slideset_final_1.pdf
3.2	FCC Comments	http://www.c63.org/documents/misc/minutes/2015_Nov/FCC_ET15_105_ASC_C63_draft_v1_20150707.doc
3.2	ET-15-170 Comments	http://www.c63.org/documents/misc/minutes/2015_Nov/FINAL%20C63%20NPRM%20comments%2010%209%202015.pdf
3.2	ET-15-170 Reply Comments	http://www.c63.org/documents/misc/minutes/2015_Nov/FINAL_C63_NPRM_reply_comments_1192015.docx
5.0	Approved Minutes of previous meeting	http://www.c63.org/documents/misc/minutes/2015_Nov/20150507_Approved_Main_Committee_Minutes3.doc
6.0	Secretariat Report	http://www.c63.org/documents/misc/minutes/2015_Nov/Vogel_C63_Nov_2015_meeting_%20slides.pptx
8.0	C63® PowerPoint Template	http://www.c63.org/pw/c63/C63_PowerPoint_template.ppt
8.1	SC1 Report	http://www.c63.org/documents/misc/minutes/2015_Nov/C63_SC1_report_20151112.ppt
8.1	C63.10 PINS	http://www.c63.org/documents/misc/minutes/2015_Nov/PINS_C63_10_Ed3_20151111.doc
8.1	C63.26 PINS	http://www.c63.org/documents/misc/minutes/2015_Nov/PINS_ANSI_C63_26_2nd_Ed_20151111.doc
8.2	SC2 Report	http://www.c63.org/documents/misc/minutes/2015_Nov/SC2_Report_20151112.pptx
8.3	SC3 Report	http://www.c63.org/documents/misc/minutes/2015_Nov/C63_SC3_report_20151112.ppt
8.4	SC5 Report	http://www.c63.org/documents/misc/minutes/2015_Nov/SC5_Report_20151112.pptx
8.5	SC6 Report	http://www.c63.org/documents/misc/minutes/2015_Nov/SC6_20151112_Main_Report.ppt
8.6	SC7 Report	http://www.c63.org/documents/misc/minutes/2015_Nov/C63_SC7_Report_20151111.ppt
8.7	SC8 Report	http://www.c63.org/documents/misc/minutes/2015_Nov/SC8_Report_20151112.ppt
8.7	C63.19 PINS	http://www.c63.org/documents/misc/minutes/2015_Nov/C63_19_PINS_20151110.doc
9.2	SC4 Proposal	http://www.c63.org/documents/misc/minutes/2015_Nov/151001%20-%20Proposal%20for%20a%20New%20Subcommittee%20(4)%20in%20ANSI.docx
9.4	FCC Comments	http://www.c63.org/documents/misc/minutes/2015_Nov/FCC_ET15_105_ASC_C63_draft_v1_20150707.doc
11.1	Education & Training report	http://www.c63.org/documents/misc/minutes/2015_Nov/2016_C63_education_report.ppt
11.2	2015-Oct. Newsletter	http://www.c63.org/documents/c63/newsletters/C63_Newsletter_Oct_2015_39_Final.pdf

³ Attachments are not a part of the meeting minutes. They may be downloaded from the [Last Meeting Minutes](#) page of the [C63.org](#) website.