



MAY 2014

Newsletter of the Northern Virginia Chapter Construction Specifications Institute

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DINNER MENU

Dinner Salad
 Choice 1: Mediterranean Chicken
 Choice 2: Flank Grilled Steak
 Dessert: Chef's Choice

Prices

Members: \$18 + \$1.89 CC Fee
 Non-Members or Retired:
 \$48 + \$3.39 CC Fee
 Table Top: \$275 + \$14.74 CC Fee

Schedule

6 pm: Social hour
7 pm: Dinner
8 pm: Program

Location

Washington Dulles Airport
 Marriott Hotel,
 45020 Aviation Drive
 Sterling, VA 20166

CHAPTER MEETING MAY 14, 2014

The Necessities of Life Building Codes and Standards

Description:

In 2003, consolidation of the nation's three model code groups, BOCA, ICBO & SBCCI, was finalized. The story behind this major endeavor is a real "eye-opener". The new International Code Council (ICC) is self-funding with no federal or state funds to keep it afloat. Headquarters are located in Washington, D.C. The former model code groups, have become ICC Regional Offices and are still located at their original locations, i.e. Illinois (formerly BOCA), Alabama (formerly SBCCI), and California (formerly ICBO). The program will be supplemented with historical background information on how codes really started and also include a brief look at code beginnings in the Commonwealth of Virginia and the local communities of Fairfax County and the City of Alexandria.

Learning Objectives:

Upon completion, the participants will be able to understand:

- The historical significance of the ancient Code of Hammurabi.
- State and local background for building codes.
- How the enforcement of modern codes was applied.
- The overall efficiency of Model code consolidation changes.
- How and why the three previous model codes were consolidated.
- The new tools now available to make it easier to use, update and interpret
- How the Internet has made it possible for economical access to codes.

**Speakers:**

Diane J. Pittman
 AIA, CCS, CCCA, LEED AP
 BD+C



Daniel C. Cammer
 CSI, SET NICET, FASCET,
 VA-DHCD, ICC

Program Speakers Continued on page 2

Register for the meeting on the Chapter website at www.csinova.org by May 9.

Schedule of FY2014 Chapter Meetings and Presentations

September 2013

Translating Actual to Virtual/
Transforming Virtual to Actual

October 2013

Super Educational Buildings--
Woodson HS

November 2013

Free Axex Flooring Systems

December 2013

Northern Virginia AIA Design
Awards

January 2014

3-D Printing
ABC Imaging

February 12, 2014

Custom Building Products
Terry O'Hara

March 12, 2014

An Approach to Hardware Spec-
ifications
John Geniesse

April 9, 2014

Paint 201 - High Performance
Coatings
Bill Rains

May 14, 2014

The Necessities of Life – Building
Codes and Standards
Diane Pittman and Dan Cammer

June 11, 2014

Hors d'Oeuvres, Desserts, Trade
Show & Awards
Mike Clancy

July/August 2014

Board Transition and Planning
Meeting (*agenda TBD*)



PRESIDENT'S MESSAGE

Luigi Grande, *NOVA CSI President*

Dear CSI Members, This year, I had the privilege and honor to attend the 2014 Mid-Atlantic Region Conference in Hampton, Virginia as your President, and as your CSI NOVA Chapter representative.

The Tidewater Chapter of CSI not only hosted the conference, but also celebrated their 50-year anniversary. This 50 year anniversary was a big achievement that I hope someday we will be able to replicate in our chapter. This social occasion was also able to bring together CSI members from the region and beyond practically all the way from Pennsylvania to Virginia.

The conference was held at the Crown Plaza Hampton Marina, a great location, from April 3rd to April 6th. I am happy to report that the following individuals from our chapter were also in attendance: our Fellow Mr. David Lorenzini, our Fellow Mr. Dave Metzger and one of our past Presidents, Mr. Alan Geary. I was happy to see good participation from our chapter members.

Mr. Eric J. Guran, President of the Tidewater Chapter of CSI and Mr. George W. Luce III, President-Elect of the Tidewater Chapter of CSI were incredible hosts, full of energy, dedicated and very attentive to minute details for the event. It was obvious, due to the magnitude of the occasion, that they had support from their sponsors, and their members too, to organize and make this event such a successful one.

The program included educational seminars, great speakers, and presentations to include a presentation on Fort Monroe's past as well as its future, and was followed with a tour of its facilities. The event also had numerous fun activities for the attendees.

I was also able to make connections with Mr. Matthew R. Fochs, a representative of the Institute, who committed to helping us with any issues we might have with our Microsite. He also suggested we contact Mr. Keith Knebel, who is another resource to tap into in case we have issues with our website.

Last, another item of importance that I am planning to use and I am encouraging you all to remember and take advantage of "BOGO" (Bring One Get One). Yes, it is a program to introduce new members to the benefits of CSI membership, and this how it works: You or your firm can sign up a new associate. By doing so you will get an additional free membership for one year that in turn you can give to an associate. What better way to help give an associate the confidence and knowledge to positively improve their work. In addition this will offer a unique opportunity for growing our membership and friendship.

Anticipating your participation and thanking you in advance.❖

Luigi



PROGRAM PRESENTERS (CONTINUED FROM PAGE 1)

Diane J. Pittman

Diane is an Architect with Torti Gallas and Partners, Inc. who has more than 15 years of extensive on-site CA and CM architectural and interdisciplinary work. During Construction Phase Professional Services, interaction with the Authority/Agency having Jurisdiction (AHJ) and resolution of outstanding or unresolved Code issues are of the highest priority on most projects, and this has been an area of career focus for her.

Daniel C. Cammer

Dan is a retired, multi-certified Architectural/Structural Engineer Code Consultant with Robert E. Beach Architects, LLC. His 40 years of experience before retirement centered on regulatory plan review of construction drawings, structural engineering, code writing, and standards comparison studies. Prestigious employments have been with the City of Alexandria; Fairfax County; BIA; NCSBCS; AISI; NAHB; and H.L. Keller & Associates, Structural Engineers. Current work now focuses on QC and QA of the firm's design/construction working drawings as Director Codes & Standards.❖

CSI MEMBER ANNIVERSARY DATES

May

Betsy Hooper.....	7 years
<i>Architect</i>	
Michael Montgomery	5 years
<i>Retired</i>	
Michael Stenberg	5 years
<i>Architect</i>	
Cindy Adkins.....	1 year
<i>Architectural Specialist, Ardex</i>	
Christine Zahuranec	1 year
<i>Student</i>	

New Members

Join CSI today and you could be listed here.

CSI MEMBERSHIP A VALUABLE RESOURCE

Expand your professional career in the construction industry, as many others have done, by applying for membership in CSI and joining the members at the Northern Virginia Chapter monthly meetings.

CSI BOGO BUY ONE–GIVE ONE

Recruit one professional member who joins and receive a one year free membership to GIVE to another potential new professional member.

With your help, we can double our membership by June 2015. Check CSI website for program rules.



HORS D'OEUVRES - DESSERTS - TRADE SHOW - AWARDS

Mike Clancy

NOVA CSI Education/Technical/Certification Committee Co-Chair and Director

MEMBERS AND GUESTS

Don't miss our 1st annual **CSI Hors d'Oeuvres, Desserts Trade Show & Awards meeting June 11th** at the **Washington Dulles Airport Marriott Hotel**, 45020 Aviation Drive, Sterling, VA 20166. It's casual, it's COOL, and it's relaxed! Enjoy tasty tidbits as you cruise the tabletops for product demos and enlightening information about a variety of manufacturers products. Top it off with a dessert or two or three and take it easy in an ambient, informative atmosphere arranged especially for you!! **6:00pm – 9:00pm**. Be there!

SPONSORS

Maybe you'd like to consider the road less traveled and become a **Sponsor**, \$275 per station, includes one admission. Additional exhibition staff is \$18 per person. Hors d'oeuvres or Desserts provided for your station by the Marriott. Sponsor Stations are limited and on a first come first serve basis. **Sign up on the Chapter website** at:

<https://www.eventbrite.com/e/first-annual-hors-doeuvres-dessert-awards-sponsor-sign-up-tickets-10497332805>

Questions? Contact Mike Clancy – NOVA CSI Party Chair at mclancy@verizon.net. ❖



CSI NOVA EDUCATION/CERTIFICATION OPPORTUNITIES

John Geniesse

NOVA CSI Education/Technical/Certification Committee Co-Chair and First Vice President

CSI offers many **Webinars** throughout the year. On **May 27, 2014** from 2 to 3pm, CSI is offering: "**Omni Class 101 – Maximizing Today's Technology**", 1.0 AIA CES credit, 1.0 PDH.



The featured speaker is **Dianne Davis, CSI**. Learn about the Omni Class system and how you can utilize it. This webinar is **free** for members and non members. More detailed information can be found on the CSI website www.csinet.org. Look for the course announcement on the home page. You must register 24 hours in advance of the course. ❖

MEMBERSHIP OBSERVATIONS

Daniel Cammer

NOVA CSI Membership Chair and Director

The Institute Directory for our membership, as I have observed on many occasions, has out-of-date email addresses, phone numbers, etc. It should always be up to date.

It is very important to keep such up to date. The directory is often accessed by the chapter leadership. If your email and telephone number are bogus, things are reduced to a crawl. Therefore, let me suggest that you ask for assistance in updating your profile. The Chapter's leadership is willing to assist and do it for you. And so, please let me know how I can help. Don't hesitate or put it off. Up-to-date profiles are extremely important for chapter communications and our continual growth. ❖

Dan



Past Presidents of Northern Virginia CSI

Listed by Fiscal Year Dates

1992 William C. Pegues
 1993 William C. Pegues
 1994 Tony Wintz *
 1995 Henry Doyle
 1996 Steve Szoke **
 1997 Michael Clancy
 1998 Gloria Buchanan
 1999 Brian Trimble
 2000 Jean Carr ***
 2001 Robert Morris III
 2002 William Pegues
 2003 David Lorenzini
 2004 Mary-Ellen Pfiester
 2005 Marshall Moss
 2006 Diane Pittman
 2007 Alan Geary
 2008 Alan Geary
 2009 Jason McKay
 2010 Jason McKay
 2011 Paul Brosnahan
 2012 Deborah MacPherson
 2013 Deborah MacPherson
 2014 Luigi Grande

* Location unknown, no longer a member of CSI

** Relocated to Ohio

*** Retired to FL, no longer a member of CSI



GETTING EMERGING PROFESSIONALS INVOLVED IN CSI

Cherise Schacter, CSI, CDT

Portland Chapter CSI, Guest Contributor



Portland CSI has a couple of events every year to raise money for scholarships. Traditionally we have used this money solely for scholarships for university architecture students. Last year, we decided that we were not adequately serving our membership by limiting it to only architecture students.

After much discussion, we decided to split the funds between college scholarships (for anyone pursuing a design or construction related degree) and CDT scholarships. We decided to limit the CDT scholarships to emerging professionals (for the purpose of this scholarship, we are defining emerging professionals as people in a design or construction related profession with 10 or less years of experience.) For the CDT scholarship, you were not required to be a member to apply.

Here is what the CDT Scholarship includes:



1. Membership cost (if you are not already a member) less the first \$100 (so the applicant has some investment in the commitment).
2. Free attendance in the Portland CDT classes.
3. A Project Delivery Practice Guide.
4. A PDPG Workbook.
5. Reimbursement of the exam fee after passing.

Requirements for Applicant:

1. They must pay the first \$100 of the membership fee.
2. They must pay their own exam fee and be reimbursed upon passing.
3. They must become a member of Portland CSI.
4. They must make a commitment to a committee of their choice for one year.

Last year, we had six applicants: 2 Architects, 2 Engineers, 1 Contractor, 1 Product Representative. This year we had four applicants: 3 engineers, 1 architect. Last year, 5 of the 6 passed and 5 of the 6 have kept their commitment to be involved in the Chapter. Pretty good return if you ask me.

The positive outcome from this is not only do we have some new younger members getting involved and injecting fresh ideas into the chapter, but they are already CDT certified. While there is no way to guarantee these folks will keep up their end of the deal, I feel it was a risk worth taking that has, and is, having great results.

This year, for the four recipients, we are inviting them to our "Grill the Contractor" Chapter meeting next month and assigning someone to each one of them to show them around, explain the different committees, and introduce them to people so they feel welcome and valued.

I am proud that three of this year's recipients are from my firm (no, I was not on the selection committee), and they are all very excited about it. All three are in their 20's. They applied because I shared my passion for CSI and they recognized the value.

While maybe we can't always change the world in a big way all at once, one person at a time is OK with me. ❖

CONNECTING SMART BUILDINGS TO SMARTER INFRASTRUCTURES WITH BIM, GIS, & SDI

Deborah MacPherson, Cannon Design, & Eddie Oldfield, Spatial Quest Solutions

Definitions: BIM - Building Information Model | GIS - Geographic Information System | SDI - Spatial Data Infrastructure



Burgeoning energy costs, aging infrastructure, urban density, growing populations, and extreme weather all demand that systems and tools to understand and improve the built environment must advance. To excel in design and operation of efficient, intelligent buildings, land use and public infrastructure, many pieces of dynamic information need to be working throughout the building systems and utility infrastructure. More standard interfaces are needed between building systems (such as heating, lighting, security), and infrastructure systems (city models, sensors, smart grids).

Constant back and forth web service pings and responses between public buildings and local infrastructure will increasingly become more interdependent. The asynchronous moving parts must be considered differently at each point in building and infrastructure lifecycles (design, funding, development, maintenance, operation, de-commissioning, archiving). Open technical standards and internet platforms for integrating building system-based data are few and far between. Examples are Project Haystack for HVAC systems <http://project-haystack.org/>, BACnet for systems integration <http://www.bacnet.org/> and WYSIWYG (What You See Is What You Get) <http://en.wikipedia.org/wiki/wysiwyg>. Standards for integrating environmental and neighborhood energy resources and geospatial data are also needed to improve energy efficiency, waste recovery, renewable energy integration, demand reduction, response capability, productivity, resiliency, and lifetime of assets – all which vary by building and location.



Key technologies include Building Information Modeling (BIM), Geographic Information Systems (GIS), Spatial Data Infrastructure (SDI), but most importantly new integration and exchanges across all three. BIM can support 2 and 3 dimensional structural, energy, functional, finishes and fitout, and geographic visualizations. Additional elements such as time, cost, and phasing enhance life cycle management capabilities. Buildings typically exist in the context of neighborhoods, cities, and utility systems in GIS. The integration of location-based, climate specific, regional data with building specific performance data is a fundamentally new process of ongoing data exchange that was not possible before the advent of the internet, cloud computing, or web services. The Open Geospatial Consortium (OGC) develops geospatial data exchange and web service standards largely adopted by GIS vendors and as part of national Spatial Data Infrastructures (SDI) in Canada, the US, and around the world. The question is how can SDI facilitate key interface points not only in data sources in BIM and GIS, but also at particular points in facility and infrastructure life cycles.

Long term, systematic approaches will not only make buildings smarter, but also ensure buildings are integrated into the fabric of their local environment, part of larger, more strategic interoperating networks helping to reduce energy use and costs among other benefits. Optimization of land use and the location of public buildings and infrastructure in context with each other, can lead to even larger savings, increased asset value, ease in maintenance and operation, and improved economic productivity. Enhanced connectivity between building systems and their occupants has been proven to balance operational and economic performance, scalable to meet changing needs. One example is Workplace Effectiveness by the US General Services Administration (GSA) <http://www.gsa.gov/portal/category/26726>. ❖

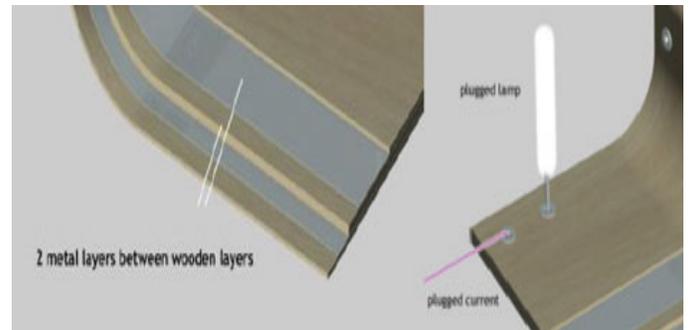
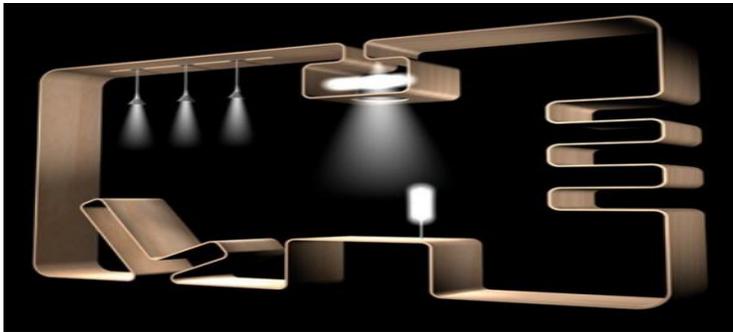


TECHNICAL NEWS YOU CAN USE

More on the future of materials. This is a continuation of our series on state of the art products that may trigger your curiosity.

Electrified Wood

You may never have to deal with the tangle of wires again thanks to “Wood.E”. This European-designed material incorporates a source of electricity directly into tables and chairs. Two metal layers are pressed between the wood of the furniture, making it possible to pass an electrical current through the whole thing. The 12-volt power is fed to the metal layers via one connector, and electrical elements, ie., lamps, can be plugged directly into the wood without any cables. ❖



Made of What?

A counter-top made of paper might not sound too sturdy, but a “Richlite” counter is almost indistinguishable from one made of wood. The composition of the material is made with 70% of recycled paper. The countertops are made by treating paper with a resin, and then baking it to create solid sheets. This product was first used in the aerospace, boating, and sports industries as reinforcement for surfaces like fiberglass, but now is available for architectural purposes as well. Come in a choice of 9 colors. Cost in Northern Virginia for 30 square feet of counter area ranges from \$75 to \$105, depending on cost of labor. I am wondering if we can get LEED points? ❖



(Our readers are encouraged to submit their experiences with these types of products for publication in future issues.)

SPECIFIER NOTES FROM APRIL 2014 MEETING PRESENTATION

Paint 201: High Performance Coatings

Speaker: *Bill Rains, Architectural Account Executive, The Sherwin-Williams Company*



Basic considerations are aesthetics and functionality.

Applications: Surface preparation, severe conditions, manufacturer data sheets, and SSPC/NACE standards.

Primers: Universal acrylic, epoxy, special purpose such as zinc-rich and block filler.

Sheen: Satin/eggshell, semi-gloss, gloss.

Film Thickness: Wet film thickness (WFT), Dry film thickness (DFT).

Green Coatings: Low VOC, zero VOC.

The U.S. Environmental Protection Agency (EPA) publishes the **Architectural and Industrial Maintenance (AIM)** Rules to limit the amount of Volatile Organic Compounds (VOC) that paint manufacturers can put into their products. VOCs are solvents in coatings that are measured in **grams per liter**. The rule also regulates container labeling requirements.

VOCs are listed in the Material Safety Data Sheets (MSDS), which follows a recommended format specified by OSHA, and are a critical element in achieving LEED credits. Other issues important to building owners are the Life Cycle Costs of coatings.

Bill Rains outlined some key features of the 50 most common generic subcategories of AIM coatings:

Alkyds: Solvent based; infrequently used; gloss finish.

Acrylics: Water-based, Direct-to-Metal (DTM); creates film on coating surface (no absorption); zero VOC available.

Epoxy: Floors; two-component; pre-catalyzed zero VOC; water-based and solvent-based; moisture and chemical resistant; polysiloxane.

Urethanes: Water-based; acrylic epoxy; urethane alkyd.

High Temperature (750° to 1200°) Silicone; silicone-acrylic; Inorganic zinc. ❖

SUMMARY OF APRIL BOARD MEETING MINUTES

Mike Montgomery

Secretary

Call to Order: A quorum being present, Luigi Grande, President of the NOVA Chapter of the Construction Specifications Institute, called the April 2014 regular meeting of the Board of Directors to order on Wednesday, 9 April 2014 at 5:03pm at the Washington-Dulles Airport Marriott Hotel.

Election Results: Grande reported on the results of the elections for vacancies on the Board of Directors for 2014:

- Mike Montgomery was elected to a two-year term as Secretary.
- Bob Trafton was elected to a two-year term as Director.
- Ken Lyons was elected to a two-year term as Director.
- The Board will be required to select a director position for a one-year term at the 2015 elections to balance the annual vacancies in accordance with the bylaws.
- The referendum that was included with the 2014 ballot to approve the Board's decision to host the Middle Atlantic Region Conference in 2018 had a favorable response, including a number of volunteers and comments.



Banking Statements: Treasurer Pittman now has access to the Google Drive and will be uploading past statements for board review.

Annual Awards: Rains reported successful development of the chapter award certificates.

[Meeting Minutes continued on page 8.](#)



Chapter Board of Directors

President	Luigi Grande.....	lgrande@ch2m.com
President-Elect	Jesse Oak.....	joak@pbheeryamericas.com
Immediate Past Pres.	Deborah MacPherson .	dmacpherson@cannondesign.com
1st Vice President	John Geniesse	jgeniesse@stanleyworks.com
2nd Vice President	Tom McConnell.....	tom@construxva.com
Secretary	Mike Montgomery	mbmonty@embarqmail.com
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Director, 2013-2014	Ken Lyons.....	k_lyons@verizon.net
Director, 2014-2015	Cynthia Heimann	cheimann@kgdarchitecture.com
Director, 2014-2015	Dan Cammer	d.cammer@rebarchitects.com
Director, 2014-2015	Mike Clancy.....	mclancy1@verizon.net
Director, 2014-2015	Bill Rains.....	bill.rains@sherwin.com

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E.T.C.*	Mike Clancy/John Geniesse, Co-Chairs mclancy1@verizon.net / jgeniesse@stanleyworks.com *(Education/Technical/Certification)	
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Historian	Deb MacPherson.....	dmacpherson@cannondesign.com
House	Jason McKay	jmckay@isolatek.com
Membership	Dan Cammer	d.cammer@rebarchitects.com
Nominating	Deb MacPherson.....	dmacpherson@cannondesign.com
Programs	Cynthia Heimann	cheimann@kgdarchitecture.com

Middle Atlantic Region

President	Margaret Chewing	mgccs@spexresources.com
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Institute

Director	Raymond Gaines	gaines5@ntelos.net
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SNAPSHOT AT MARC 2014



NOVA Chapter members at 2014 Middle Atlantic Conference in Hampton, VA.
L-R: David Lorenzini, Luigi Grande, Alan Geary, Dave Metzger.

Editor's Corner

Comments regarding this newsletter are welcome. Original contributed articles are also welcome. Submit them in Word DOC format to deloren@scip.com. Articles should be concise and to the point, accompanied by graphics, if applicable, in JPG format. ❖

Editorial Policy: NOVASPEC acts as a moderator without approving, disapproving, or guaranteeing the validity of accuracy of any data, claim, or opinion appearing under a byline or obtained or quoted from an acknowledged source. The opinions expressed by authors do not necessarily reflect the official views of the Northern Virginia Chapter CSI or The Construction Specifications Institute.

All material for each issue must be received by the Editor 3 weeks before the next Chapter meeting date.

The Construction Specifications Institute (CSI) is a nationwide, nonprofit, technical organization dedicated to the advancement of construction technology through communications, education, research, and service. Founded in 1948, CSI provides a forum for architects, engineers, specification writers, contractors, suppliers, and others in the industry.

Our mailing address: Northern Virginia Chapter CSI, PO Box 223415, Chantilly, VA 20153, 703-402-0903, <http://nova.csinet.org/>

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MEETING MINUTES (CONTINUED FROM PAGE 7)

Value Engineering White Paper: The development document is scheduled to be delivered to Institute on 6 June.

Website: Oak and Gloukhoff have developed several initiatives for updating the Chapter website. Institute staff members knowledgeable of programming conventions used by CSI have offered to provide technical assistance to Gloukhoff.

Membership: Grande directed the Membership Committee to devise an action plan to guide chapter members with recruiting.

MARC 2018: Grande and Lorenzini reported on the 2014 MARC hosted by Tidewater at Hampton, VA. The programs were well developed, organized, and informative. MARC 2014 also included the hosting chapter's 50th anniversary and an awards ceremony. Based on the 2014 conference, Grande is positive regarding NOVA hosting the 2018 MARC.

Adjournment: There being no further business to come before the board, President Grande declared the meeting adjourned at 5:55 pm. ❖