May 2018 SPECIFICS

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Publisher/Editor:

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Specifics

The Newsletter of The Minneapolis-St. Paul Chapter CSI May 2018

2017 CSI-MSP Golf Outing

Thursday, June 1st

Bunker Hills Golf Club

10:30 a.m. - 7:00 p.m.

SCHEDULE:

10:30 a.m. / Registration & Lunch
11:30 a.m. / Best Ball Shotgun Start
Dinner and Awards to follow...

SPONSORSHIP OPPORTUNITIES:

- $500 Platinum Sponsor / Includes 4 golfers and Hole sponsorship with sign and Course Game

- $350 Gold Sponsor / Includes 2 golfers and Hole sponsorship with sign and Course Game

- $200 Silver Sponsor / Includes Hole sponsorship with sign and Course Game

- $150 Golf Cart Sponsor / Your company name and logo on each golf cart

- $50 Food Sponsor / Your company name and logo on signage

- $50 Cash Prize Sponsor / You provide $250 cash or item valued at $250 for the drawing

For questions about the golf outing, contact Ryan Haller at 612-696-8222 or rhaller@bunkerhills.com

Registration Information to Follow!
From the President........

Presidents Message May 2018

Each year we elect new qualified individuals to serve their chapter in the capacity of being members of the Board of Directors. Nominations are made by a select group from the ranks of the entire chapter, with special emphasis to those members who have or are currently serving on committees. Many of our nominees serve on multiple committees, yet a nomination may not depend upon committee service at all. As I am sure you are aware, our nominees run unopposed. Each nominee is vetted to assure their commitment to their term of service.

Ballots were distributed last fall to all members. The results were mailed back in and counted. 73 of you returned your ballots and thank you for your participation, but that leaves somewhere in the neighborhood 200 members without response! I believe knowing your officers and their biographies is important. What can we do to improve participation? Please reach out to me with your ideas. Perhaps electronic balloting would be an improvement? Let me know your thoughts at Andy garner@demolays.com.

With all of that said, it is with great pleasure to announce the newly elected officers:

Office of President-Elect: James Bergevin (Presidential term FY 2019-2020)
Office of Vice President: Andy Martin
Office of Vice President: Sandy McWilliam
Office of Secretary: Jennifer Adams

This is a committed group of “new” corners, devoted to leading our chapter and enhancing the value of your membership. Reach out to them and share your ideas and concerns!

Last and certainly not least, a special thanks to Audrey Bresler, as she has prepared the ballots and run the election process for many years. She has announced her retirement from this duty. We wish her all the best and hope to see her around from time to time at events. THANKS AUDREY!!

We have a great finish planned for the end of year. If you haven’t signed up for the <a href="#">Award Banquet</a> yet, do it now! It’s going to be a truly fun event on May 15th at the Wabasha Caves in St. Paul. Sign up, as usual, is on the chapter website, easy-peasy! See you there!

May 31st is our Annual CSI Golf Outing at Bunker Hills. Get your foursome together, sign up, and while you’re at it, <a href="#">Sign up for a sponsorship!</a> It’s a great way to support your chapter and provide visibility for your organization! All you need to know is on your chapter website!

Have a wonderful Spring and we’ll see you all at the events!

At your service,

Andy Garner, CSI, CDT

Chapter President
WE ARE!

Save the DATE!

20 September 2018

Minneapolis-St. Paul Chapter CSI

60th Anniversary Celebration

Midland Hills Country Club, St. Paul, MN
2018 Annual CSI-MSP Expo

Thank you to all who participated in the 2018 CSI Expo. We had a great turnout for seminars, exhibits, networking, great food and local beverages. We had 163 individuals attend this year’s event! Those in attendance will be receiving an event survey. Your input is crucial to continuous improvement. Please take a moment and complete the survey.

Through your contributions, we raised $398 for 2nd Harvest Heartland. With our donations, Second Harvest will be able to make 1,185 meals to feed hungry children, seniors and working families in our community.

Thank You
Sponsors and Exhibitors for Your contributions!

SPONSORS

www.csi-msp.org
**EXHIBITORS:**

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<td>Division 7-23 Group LLC</td>
<td>Hillesheim Architectural Products, Inc.</td>
<td>North Skies Architectural Sales</td>
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<td>Edwards Sales</td>
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<td>Evonik Corporation</td>
<td>Industrial Coatings Solutions LLC</td>
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<td>ArchCon, Carlisle Reps</td>
<td>Guardian</td>
<td>Invision Glass Design</td>
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<td>Haldeman Homme, Inc.</td>
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<td>BASF</td>
<td>Hank's Specialties</td>
<td>M.G. McGrath, Inc.</td>
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<td>Best Access Solutions/dormakaba</td>
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<td>Marvin Windows &amp; Doors</td>
<td>W.L. Hall Company</td>
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<td>Crane Composites, Inc.</td>
<td>Henry Companies</td>
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The 4 C’s Presented by Gerhard Guth

Thanks to Gerhard Guth for his presentation of the 4 C’s. Members and guests had the opportunity to sit in on Gerhard’s presentation to focus on the importance of well-written specifications. A summary of the key points according to our presenter is as follows:

- Focus on the development of construction documents utilizing drawings and specifications as complementary to each other.
- General rules of thumb in building a specification by way of MasterFormat 2004 version divisions 00-49 along with the building blocks provided by way of UniFormat, SectionFormat, and PageFormat for organizing a uniform look throughout the project manual.
- The four Cs of CSI were reviewed: Clear, Concise, Complete, and Correct. (with consideration for “Coordination” and “Collaboration” as an expansion to that list)
- Discussion on the importance of contract documents such as AIA B101 and AIA A201 to bind the Project Manual/Specifications with the Drawings to form a complete set of construction documents.
- Resources were mentioned including Archi, 4specs.com, product reps and manufacturers.
- Database application to consider such as BSD SpecLinks and Especa, and newer apps such as VisiSpecs.

While the practice of specifications is employed everyday by members it is always a good to remember ourselves of the basics. Like a basketball coach who requires experienced players to drill on dribbling and passing; we must drill on the fundamentals of our practice to be better. Gerhard also highlighted how the industry is ever-changing and reminded the audience to look to the Supplier Team to assist the Design Team in effective project delivery.

Architect Ethics and Professional Responsibility in the “Me Too” Era by Martin Kappenmann.

Thanks to Martin Kappenmann, Shareholder at Se斯顿, Peters & Review, for his presentation at the Construction Specifications Institute on preventing sexual harassment entitled, “Architect Ethics and Professional Responsibility in the “Me Too” Era.”

Martin discussed that preventing sexual harassment should be viewed as an ethical obligation of design professionals. The course provided an outline on the AIA Code of Ethics, Professional Conduct and Harassment Policy. His presentation identified the different types of sexual harassment in the workplace. Finally, the course detailed the requirements for employer liability, along with ways to conduct managerial training and step-by-step investigations.

There are two main types of unlawful sexual harassment: quid pro quo (“economic harassment”) and hostile work environment harassment. Quid pro quo requires a tangible employment action based upon a refusal or agreement to engage in sex, dating, etc., and usually involves a threat or promise of a benefit linked to sex. A tangible employment action is a significant change in employment status with direct economic impact to the employee, typically triggered by employer authority. Examples of tangible employment actions are: hiring or firing, promotion or failure to promote, demotion, unfavorable work assignments, or a decrease in benefits or compensation.

Hostile work environment harassment has four necessary elements: (1) sexual conduct that is (2) unwanted, and (3) offensive both subjectively to the recipient and objectively to a “reasonable person,” and (4) the conduct is severe or pervasive (though the Minnesota legislature has proposed legislation that would remove the severe or pervasive requirement). Signs that sexual conduct is unwelcome include employee complaints, verbal responses (or lack thereof), and changes in expression or body language. Remember, just because an employee laughs at a sexual comment does not mean the conduct is welcome. The offensive nature requirement has two prongs: it must be offensive to both the recipient and to a “reasonable person.” The severe requirement is generally met by conduct such as assault, rape, grabbing, fondling, or other violent acts. The pervasive requirement may be met by a pattern of repeated conduct.

Employers can build affirmative defenses to liability for harassment in the workplace. Having a zero tolerance policy on harassment, educating managers and supervisors on the policy, training all employees, reinforcing the policy, and responding immediately to complaints or issues will help reduce employer liability. Employers should post required federal and state notices in the work area and implement and enforce a policy prohibiting all harassment and retaliation.

If you have any questions regarding this topic, would like to have an on-site training session for your managers or have any employment-related legal topics you would like to discuss, please contact Martin Kappenmann at mskappenmann@sestonlaw.com or (512) 921-4603.
Suben Kanagaratnam - Quality Manager

Suben joined the Construction Specifications Institute (CSI) in 2017 to network with industry professionals and to broaden his knowledge base with an emphasis on building envelope related issues for existing buildings (including historical), and related design for new commercial buildings.

He is a Quality Manager for JE Dunn Construction Midwest Group, where he is based in Minneapolis covering JE Dunn's commercial building construction projects throughout Minnesota and North Dakota. He draws and collaborates very closely with the JE Dunn Construction National QA/QC group to provide JE Dunn Construction project teams with Building Envelope Peer and Constructability Reviews, Quality support (Codes, Building product/s), and 3rd Party Consultant and Peer reviews and verifications, on-site Quality inspections, and participates in all endeavors relating to forensic demolition. Suben also initiates and manages regularly scheduled monthly "Lunch and Learn" sessions for JE Dunn's Project Managers, Field Engineers, Superintendents and Forepeople, etc., as offered by different building product suppliers, vendors, trade partners, and related entities.

Suben received his Civil Engineering Certificate in Malaysia, completed his Building Construction Technology, and Construction Management Degrees in the United States, (Nebraska, and Colorado respectively). In addition to his work with JE Dunn, Suben also currently holds a position as Management Trustee for the Cement Mason's Health and Welfare Fund, appointed by the AGC.

He has over 25 years of industry related experience covering Commercial, Industrial, and Infrastructure projects, of which 21 years have occurred here in the United States, and the rest abroad, specifically in Southeast Asia.

A list of notable projects that Suben has been involved with include:

- Petronas Twin Towers, a.k.a. KLCC Towers (Malaysia)
- Singapore Second Causeway Bridge (between Malaysia and Singapore)
- Minnesota Wild Arena a.k.a., Xcel Energy Center (St. Paul, MN)
- Minneapolis Convention Center Expansion
- Minneapolis Central Library Project
- Willmar Wastewater Plant Campus
- NorthStar Corridor Rail's Downtown Intermodal Station and LRT Connection
- Eisenhower High School Campus (Yakima, WA)
- Minot ND International Airport
- Southwest High School Expansion (Minneapolis, MN)
- Minnesota State Capitol Interior and Exterior Restoration and Upgrade
- U of M Tate Science and Teaching Renovation
- Baker Center: Property Renovations and Amenity Enhancements
- Williston Basin International Airport ND

Suben may be reached at:

Suben Kanagaratnam | Quality Manager

JE Dunn Construction

800 Washington Avenue North, Suite 600

Minneapolis, MN 55401

www.jedunn.com

Direct: 612.260.2323

Mobile: 612.764.4954

suben.kanagaratnam@jedunn.com
# UPCOMING EVENTS

for

Local Construction Associations

Compiled by Joel Meyer

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<thead>
<tr>
<th>DATE</th>
<th>EVENT</th>
<th>ORGANIZATION</th>
<th>WEBSITE</th>
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<tbody>
<tr>
<td>5/9/2018</td>
<td>Women in Architecture Luncheon</td>
<td>Institute of Architects</td>
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<tr>
<td>5/17/2018</td>
<td>AIA MPLS Luncheon</td>
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<tr>
<td>5/4/2018</td>
<td>See website for updates</td>
<td>AGC Associate General Contractors</td>
<td>aecmn.org</td>
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<tr>
<td>5/10/2018</td>
<td>MN-ASHRAE Centennial Celebration</td>
<td>ASHRAE – MN</td>
<td>mnashrae.org</td>
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<td>5/16-17/2018</td>
<td>Concrete Rehab. for Streets Seminar</td>
<td>ARM – Aggregate Ready Mix of MN</td>
<td>armofmnp.com</td>
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<td>5/19/2018</td>
<td>Annual Meeting - Radisson Blu</td>
<td>BOMA – Bldg Owners &amp; Managers</td>
<td>bomapmpls.org</td>
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<td>5/14/2018</td>
<td>Member Mtg, Melvin Carter Keynote</td>
<td>BOMA – Bldg Owners &amp; Managers</td>
<td>boma-mnsaintpaul.org</td>
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<td>5/16-17/2018</td>
<td>LATP Workshop</td>
<td>Concrete Paving Assoc. of Minnesota</td>
<td>concreteisbetter.com</td>
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<td>5/10/2018</td>
<td>Dunwork'n Social</td>
<td>Dunwoody Institute</td>
<td>dunwoody.edu</td>
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<td>5/21/2018</td>
<td>St. P. Saints &amp; Network Event</td>
<td>Minnesota Construction Assoc.</td>
<td>mncstruction.org</td>
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<td>5/8/2018</td>
<td>IFMA New Member Social</td>
<td>IFMA – International Facility Mgmt.</td>
<td>msp-ifma.org</td>
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<td>5/4/2018</td>
<td>See website for updates</td>
<td>ASLA – Am. Soc. of Landscape Arch.</td>
<td>asla-mpls.org</td>
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<td>6/27/2018</td>
<td>Jt. Chapter Fundraiser- Golf Tourney</td>
<td>MN Society of Prof. Engineers</td>
<td>mnspe.org</td>
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<td>5/17/2018</td>
<td>Hunter-Douglas Lunch 'n Learn</td>
<td>ASID – Am. Soc. of Interior Designers</td>
<td>mn.asid.org</td>
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<td>5/17/2018</td>
<td>Bk’st Mtg. Cement: H20 Ratio Disc’n</td>
<td>Minnesota Concrete Council</td>
<td>mnconcretecouncil.com</td>
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<td>5/17/2018</td>
<td>MCC Breakfast Meeting</td>
<td>Concrete &amp; Masonry Cont’s Assoc.</td>
<td>mcmca.org</td>
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<td>5/22/2018</td>
<td>TBD Site Tour</td>
<td>NAWIC- Nat’l Assoc. of Women Constr.</td>
<td>nawicmnp.org</td>
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<td>5/12/2018</td>
<td>Earth Day 5-K Run &amp; Boom Is. Cleanup</td>
<td>USGBC – United States Green Building Council – Mississippi Headwaters Ch.</td>
<td>usgbc.org</td>
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<tr>
<td>5/10/2018</td>
<td>M. Architecture – Projects Exposition</td>
<td>U of MN – College of Design &amp; Arch</td>
<td>arch.design.umn.edu</td>
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</table>
Questions about CSI-MSP Membership applications and renewals?

Click HERE for the new Membership Enrollment Form.

Ask the Membership Committee Chair:
Gary Patrick at 763-546-3434 or gpatrich@jmsvec.com

Or contact the CSI-MSP Chapter Administrator:
Vicky Olson at 952-564-3044 or volson@intrinsicvec.com
CHAPTER PARTNERSHIPS AND SPONSORSHIPS

WOULD YOU LIKE TO SEE YOUR COMPANY LOGO FRONT AND CENTER WITH CSI?

Would you like your company to come to mind first when a CSI member needs the services your company provides?

Your company logo would be prominently displayed on all emails from the chapter (4 - 5 emails sent each month to 950 contacts each time), at all monthly programs (80 + 100 members), in the monthly Specifics (sent to 700+), on the pages of the CSI chapter website, at EVERY CSI event on each table and in the PowerPoint!

Your company could have quarter page ads or a featured article in the monthly Specifics (sent to 700+), or the opportunity to feature your company with a table top display at a monthly meeting.

If you answered yes, please send an email to volson@intrinex.com and put “Need a Call” in the subject line and include your contact information. You will be contacted by a CSI member.

WOULD YOU LIKE TO END YOUR COMPANY’S SUPPORT TO CSI EVENTS LIKE THE ANNUAL GOLF OUTING OR THE ANNUAL AWARDS BANQUET?

If you answered yes, please send an email to volson@intrinex.com and put “Sponsorship Call Needed” in the subject line and include your contact information. You will be contacted by a CSI member.

DID YOU PREVIOUSLY HAVE A BUSINESS LISTING OR BUSINESS CARD AD IN THE RESOURCE DIRECTORY SECTION OF THE PRINTED CSI CHAPTER DIRECTORY?

If you answered yes to the above, there are advertising options available for your company on the website and in the monthly Specifics. Please send an email to volson@intrinex.com and put “Advertising Call Needed” in the subject line and include your contact information. You will be contacted by a CSI member.

Your Partnership with the MSP Chapter at any level is your company’s path to visibility with decision makers in the design and construction industry. Your support also enables the continuation of high-caliber programs and events and networking among all parts of the building team. Your participation is valued by all CSI members.

**Chapter Partnerships**

![ARCHCON](www.archcon.com)
612-867-5173

![MG McGrath](www.mgmcgrath.com)
651.704.0300

![COMMERCIAL](www.commercial.com)
952-462-6359

![SHERWIN WILLIAMS](www.sherwin-williams.com)
800.321.8194

![INSPEC](www.inspec.com)
763.546.3434

![HUCFARM](www.hucfarms.com)
763.544.0365

![KLINE JOHNSON](http://kline-johnson.com)
952-824-8723

**Platinum Partnerships**

![ARCHCON](www.archcon.com)
612-867-5173

![MG McGrath](www.mgmcgrath.com)
651.704.0300

![COMMERCIAL](www.commercial.com)
952-462-6359

![SHERWIN WILLIAMS](www.sherwin-williams.com)
800.321.8194

![INSPEC](www.inspec.com)
763.546.3434

**Gold Partnerships**

![Intertek](www.intertek.com)
651-636-3635

**Silver Partnerships**

![Hirshfield's](www.hirshfield.com)
CONSTRUCT 2018 - Young Professional Scholarship

Young Professional Scholarship to attend 2018 CONSTRUCT / CSI National Convention, Long Beach, CA - October 3 - 5, 2018

The College of Fellows of the Institute has issued a challenge for all Institute chapters to send at least one Young Professional to CONSTRUCT in Long Beach to participate in YP day activities. The Minneapolis-St Paul Chapter of CSI is up to the challenge!

One of the most under-utilized advantages that CSI has to offer is mentorship. More seasoned members have a lot of experience to share with Young Professionals, and Young Professionals enter our industry through eyes focused on ever-changing technologies. No other organization in our industry has the diversity of knowledge within its membership to bring the hidden treasure of cross-mentoring to the forefront and maximize our member’s knowledge base early in their careers or help them refine a seasoned career, thus helping our members become sought-after resources in our industry with exponential value above others!

If you are a Young Professional 35 years of age or younger and with 10 years or less experience in the construction industry and whether a member of CSI or not, Minneapolis-St Paul CSI encourages you to fill out the attached application (Click Here for Application) and return it by the deadline noted on the form. The chapter board will review all applications and select successful candidate to be sent after the deadline and inform successful recipients and help them register for CONSTRUCT.

You should be sure and review the entire application since as they say nothing is free and there are commitments expected from the successful candidate and your signature on the application notes your commitment to the commitments! There is a saying; “You must be involved to evolve!” Get your evolution in high gear now!

(Click Here for Application and more information)
WHAT IS HAPPENING IN CSI

By Billy Mathis, FCSI, CDIT, Institute Gulf States Region Director

Since my last update, a lot of things have begun to happen. Let's tackle them one at a time.

As many of you know, the Education Programs have been non-existent over the past few years, however, that is all changing now. Education is one of the pillars that support the success of CSI and the exciting things coming up include:

A. CSI Academy – yes they are returning and the first is scheduled for April 26 – 27 in Chicago. The topic is Risk Management. You can check out the program, schedule, speakers and much by going to https://www.esciresources.org/education/academy.

1. What is the future of the Academies? Well this first one will be reviewed with the hope that this can generate approximately 2 to 3 a year on varying topics.
2. Each Academy will have several pre-event webinars which are designed only for the participants. However, following the Academy, there will be several more webinars and online community inputs that will be for anyone.
3. This is the first step in getting the Academies back on track and providing the much needed education at a higher level.

B. Academic Outreach and BE Prep Program – this is progressing at a furious pace. This all started with the grant program and has spread to well over 20 higher education facilities.

1. The BE Prep Summer Institute will be hosted on May 21 – 24 at Sinclair Community College, Dayton, Ohio. We are encouraging participation. For more information refer to https://www.esciresources.org/education/summerinstitute.
2. As part of this program, an educator’s tool book is being developed which will contain an updated CDIT workbook for exam prep, the PDEP, Project Delivery Flashcards, sample syllabus and sample press releases.
3. BE Prep facility and student online communities are targeted for launch in Spring 2018.

C. CDIT Credentialed - As most of you should know by now, the CDIT Certificate is being changed to a full fledged Certification. This will require some changes in the way this certification is thought of. While it was a Certificate, you were able to post it on your wall and keep the initials CDIT behind your name for life. This actually was no more important than any other training certificate you may have received. By converting it to a Certification, it now becomes something to hold and which will require effort on your part in order to maintain it. What this means is that on July 1, 2018, all current CDIT holders will have their Certificate converted to a Certification with an expiration date of June 30, 2021. In that intervening time, in order to renew the Certification, the CDIT holder will be required to:

1. Complete 24 CEU Hours over three years
2. Complete Renewal Application
3. Pay Renewal Fee

In association with this, all members testing for the CDIT after July 1, 2018 will be required to meet the new pre-requisites for the Certification. These prerequisites are:

1. Education:
   a. High School Diploma, GED, or equivalent
2. Experience:
   a. One-Year of work experience OR
   b. Enrolled in built environment related degree program

So what does that mean to the current CDIT holders?

1. Individuals who do not meet renewal requirement by June 30, 2021 will need to remove “CDIT” as a post nominal.
2. An individual not meeting the CEU requirement may retake.
3. Individuals taking the CDIT after July 1, 2018 will subject to a renewal requirement, to be complete within 3 years of taking the test.

D. Other Credentialing – What changes have been made here? The CCCA, CCS, and CCPFR requirements are not changing a whole lot; however, one basic change being made is that the CDIT as a post nominal is now optional.

1. The primary difference is that with the CDIT you only need 2 years’ experience while without the CDIT you will need 5 years’ experience.
2. Another change is that once you get the CCCA, CCS, or CCPFR you will no longer be required to maintain your CDIT if you don’t want to.
3. This does not devalue the CDIT, however, if members who may not be able to maintain both certifications, keep the one they most need for their job. Also, The Renewal and Reinstatement requirements currently in place will not change.

4. The Institute is offering a 1-time 6-month reinstatement window. If your CCCA, CCS, or CCPFR was not renewed from July 2014 and June 2017 (certification renewal for the past year are subject to the current guidelines), then you will be offered an opportunity to renew without payment of all the back due fees and requirements. The requirements for this 1-time offer are as follows:

   a. You must complete 24 CEU Hours over three years.
   b. Complete Renewal Application.
   c. Pay the renewal Fee (Amount will be explained in the notification you receive.)
   d. The Institute will begin contacting all former Credential holders, using the information in the file for them, and making this offer. This is a 1-Time offer, so if you are aware of someone who fits this category and if they have moved, changed jobs, or are otherwise unavailable at their previous contact location, please advise them to contact the Institute.

E. Microsite: Everyone’s favorite and one of the most contentious topics we have addressed concerns the Microsites. As many of you may know, the old Microsite program is no longer supported by the company that offered it and is untenable now due to many security concerns as well as operational software problems. It was never very user friendly and does not even come close to meeting the cybersecurity requirements of today’s society. As a result, a new system involving both a new microsite system as well as a community site are being launched. A prime example of the new microsite is displayed at the Chicago Chapter site https://www.esciresources.org/chicagoschapter/home. Others are coming online but the cost and manpower requirements of a microsite will make it impossible for most smaller chapters to take advantage of it. That is the reasoning behind the community sites which are cheaper and much easier to maintain. Even this will be too much for any chapter below say 75 members. Also, there is nothing preventing you from using one of the many website programs and services to create your own website that suits your needs. For more information on Communities and Microsites go to:

   1. http://bc1v3aH.ZLm
      a. For a model of a new Microsite go:
      a. More information can be found on CSIResources.org in the Leader Community & Tools Section (under Community in the main navigation).
      Please contact Cathy Stegmaier estegmaier@esciresources.org with additional questions or concerns.

F. Marketing and Communications

1. Institute is beginning to distribute a Member survey. Invitations are being emailed directly to members and non-members. Our task, as Leaders is to encourage participation by all who receive the surveys. As Members, our task is to take the time to complete the survey. The survey being sent is a scientifically-based random sample survey, so please note that not everyone will be included in the distribution.
2. New creative materials are in development to promote membership, certification and more. These include:

   a. Brand standards guide
   b. Collateral development (brochure, promotional materials)
   c. Electronic media graphic update including website
   d. New member kit
   e. Display and print advertising
3. The idea is to complete these materials during the next six months. The Board will be engaged as these items undergo development.
G. Volunteer Management. This has been a sore thumb for a lot of people. In the past, the call for volunteers was basically a word-of-mouth process and if there were one or two volunteers for the positions it would be considered a victory. Obviously, this was not the best way to accomplish this.

Part of the problem was that the old call for volunteers:

1. It was conducted only once a year usually with no preannouncement or notification.
   a. The notice involved formal opportunities only
   b. There was an identified large time commitment involved in most cases
   c. There was no online system for applying; it was primarily done by email and snail mail.

2. The New Call for Volunteer system implemented will:
   a. Be spread out throughout the year which means that there will be an ongoing need for volunteers for various committees, task teams, etc.
   b. Have constant Ways to Engage including ad-hoc and micro-volunteering
   c. Have an online landing page and application system

3. If you noticed, the successful pilot was used for national elections which resulted in a record number of volunteers being identified for the volunteer positions needed. For the first time in a long while, the Nomination Committee had to narrow the field down to the required numbers.
4. Finally, the committee and task team “chairs” are being further defined including scope, structure, skill sets needed and time commitment, and will be available in a new guide. Deadline for completion has been set yet.
5. As they are needed, new Volunteer opportunities will be rolled out over the course of the year.

II. Board of Directors Election

1. For your information, the official results for the slate of candidates for the upcoming election will be available on CSIResources.org by March 6, 2018 and electronic ballots will be sent to eligible voters on March 20, 2018. The election will be open from March 20 to April 3, 2018. It is imperative that you, as a member, take your time, study the candidates, and vote for the person you feel best represents someone to fulfill the needs of the Institute, thereby your needs. Get out there and vote.

RESULTS FROM CSI’S 2018 NATIONAL ELECTION ARE IN!

The 2018 national election has concluded and the following members are elected to serve on the CSI Board of Directors, with terms beginning July 1, 2018. If you'd like to read more about the newly elected members of the Board, please click on the links below to see their candidate profiles.

Marvin Kemp, FCSI, CDt  Chair-Elect
William Hayward, FCSI, CCCA  Treasurer
Jonnie Cox, FCSI  Director-at-Large
Arthur Featherstonhaugh IV, FCSI, CDt  Director of the Northeast Region
Gene Fosheim, FCSI  Director of the Northwest Region
Mitch Lawrence, FCSI, CCS, CCCA  Director of the West Region
T.J. Gottwald, FCSI, CCPR  Director of the Southeast Region
William Sundquist, FCSI  Director of the Gulf States Region

Members of the CSI Board of Directors for the FY19 fiscal year (July 1, 2018 through June 30, 2019) are:

Ellen Kay Crews, FCSI, CCS, CCCA  Board Chair  Term Ending June 2020
Marvin Kemp, FCSI, CDt  Chair-elect  Term Ending June 2022
William Hayward, FCSI, CCCA  Treasurer  Term Ending June 2020
Anne Marie Rooper, FCSI, CCPR  Secretary  Term Ending June 2019
Cherise Lakeside, FCSI, CDt  Director-at-Large  Term Ending June 2020
Jonnie Cox, FCSI  Director-at-Large  Term Ending June 2021
Alan Itzkowitz, FCSI, CCS, CCCA  Director from the North Central Region  Term Ending June 2019
Arthur Featherstonhaugh IV, FCSI, CDt  Director from the Northeast Region  Term Ending June 2020
Gene Fosheim, FCSI  Director from the Northwest Region  Term Ending June 2020
Jack Morgan, FCSI, CCS, CCCA  Director from the Great Lakes Region  Term Ending June 2019
Jeri Berens-Smith, FCSI, CDt  Director from the Southwest Region  Term Ending June 2019
Kirby Davis, FCSI  Director from the South Central Region  Term Ending June 2021
Mitch Lawrence, FCSI, CCS, CCCA  Director from the West Region  Term Ending June 2021
T.J. Gottwald, FCSI, CCPR  Director from the Southeast Region  Term Ending June 2021
William Sundquist, FCSI  Director from the Gulf States Region  Term Ending June 2021

Director from the Middle Atlantic Region  Term Ending June 2019
Educational Opportunities

THE CONSTRUCTION SPECIFICATIONS INSTITUTE

CSI WebReach

WebReach: Sustainable Building Envelopes

Wednesday, May 16, 2018
2:00 p.m. – 3:00 p.m. ET

Sponsored by ATAS International

Speakers: David Weddell and James Bush
Credit: 1.0 AIA HSW/LU Credit

This course will explore the many ways that metal building envelope components can contribute to a sustainable and healthy building. Incorporating the use of a variety of metal panel products can help to save on energy costs and even improve indoor environmental quality with the use of a transpired solar collector wall panel system. Metal panels perform extremely well with minimal maintenance and will last a very long time, so they do not need to be replaced as often as some other types of materials. Some of the panels are made of metals that have recycled content and all panels are fully recyclable at the end of their service life, making them friendly to the environment.

Learning Objectives:

1. Learn how metal walls can use sunlight to provide the building with solar air heating.
2. Discover how metal cladding on roofs and walls can contribute to green building objectives, including LEED certification.
3. Explore cutting edge cool roof technologies, including UV reflective pigments and above sheathing ventilation.
4. Understand how metal roofing can provide a solar ready platform for photovoltaic systems.

REGISTER HERE

CSI PRACTICE SESSIONS

Intro Series to Construction Contract Admin - Chapter 11: Measurement and Payment

Tuesday, May 22, 2018
12:00 p.m. - 1:00 p.m. ET

This series of the Contract Administration Practice Community will follow the information covered in CSI’s Construction Contract Administration Practice Guide. This last session will go over the contents of Chapter 12 of the CAGP on Project Closeout.

While the content may be focused towards professionals new to the practice, we invite experienced professionals to join in and offer your expertise as we lay a foundation for a solid future in the industry. Click here to view recorded sessions from the Contract Administration Community.

CSI Practice Communities are intended to help facilitate conversation and bring topics of today's industry to the forefront of professional conversation. The speakers and topics presented do not represent the views and opinions of CSI or its members. Additionally, the sessions are intended to be a more informal discussion and sharing of practices between peers. Unless explicitly stated, practice group sessions are not approved for CEUs with AIA or any other education provider. Practice group sessions may be counted toward required continued education for CSI Certifications.

CSI ON-DEMAND WEBINARS

CSI on-Demand Webinars are education sessions that provide convenient, quality learning at an affordable price—you will be able to see materials, hear an instructor and earn continuing education credit. Courses qualify for Professional Development Hours (PDHs) and AIA Continuing Education Hours (CEHrs).

CSI's Education Learning Levels

Each session, webinar, or similar event offered through CSI’s programming meets a specific level of education:

Fundamental (100 Level): “Learn & Grasp”
Attendees require little to no previous knowledge of the topic area. Participants will learn fundamental facts, terms, and basic principles and understand their meaning. These sessions inform using the “what, why, and how” approach.

Intermediate (200 Level): “Apply & Organize”
Attendees require basic knowledge and understanding of the topic area. Participants will be able to integrate knowledge into the context of practice by organizing, comparing, interpreting, and relating main ideas. These sessions are identified by key words including “examine, perform, and apply.”

Advanced (300 Level): “Develop & Evaluate”
Attendees require a working knowledge and considerable experience in the topic area. Participants will be able to analyze problems and evaluate new situations by combining acquired knowledge and techniques to generate solutions. These sessions are identified by key words including “develop, evaluate, and implement.”

The cost per webinar is $55 for CSI members, or $75 for non-members. Join CSI now and save when you register for an on-demand webinar!

See the webinars available on demand!

ADDITIONAL CSI EDUCATION PROGRAMS

In addition to CSI Webinars, CSI has additional educational opportunities for members of the construction industry.

For more information go to: http://www.csimt.org/Main-HomeCategory/Education

The Construction Specifications Institute is a Registered Provider of American Institute of Architects Continuing Education System and United States Green Building Council Education Provider Network.
Art is Work

by Milton Glaser

I came across an excellent interview with Milton Glaser in the March 17, 2018 issue of the Wall Street Journal that reminded me of his book, Art is Work, that I purchased prior to his planned visit to Los Angeles on Friday, September 14, 2001. Needless to say the trip to LA didn’t happen with all air travel in the US suspended following the events of 9/11/2001 so I didn’t get to hear him in person, or get my book signed. After reading the book again I think it's time I brought it to your attention so you can see his work and enjoy some insight into one of the most innovative graphic designers in the past 70 years and, who is still working today.

You may not realize it but you know his most famous design, the much copied logo for New York City, “I NY” designed in 1976. Prior to that Glaser was a founding member of “Push Pin Studios” established in 1954, and in addition to his many other internationally recognized graphic design achievements, in 1968 he was a co-founder and designer of “New York Magazine”.

Art is Work combines short essays and comments with 500 full-color photos presenting Glaser’s design philosophy and work methods. He describes the origin of his concept for each design project, shows us some of the ideas that didn’t work and explains through his drawings how the final design evolved. His central idea is “work” and “art” can be interchangeable. Any “work” performed can be “art” so long as it’s not shoddy. A painter can be an artist but so can an illustrator, or a designer, or a potter, or a rug weaver to cite a few examples. When the result of the work meets its needs honestly, it’s art, when the result meets the needs with elegance and rigor, it’s good art, and when the result moves us in “deep or mysterious ways” it’s great art.

Posters, exhibition announcements, album covers, books and book jackets, interior design, magazines, product packaging, and corporate annual reports are a few types of his work, or art, presented in the book.

Many of Glaser’s designs rely on manipulation of typefaces to create the message through both layout of the text and selection of the typeface, and sometimes by creating a new typeface. The “I NY” logo is a good example of this approach that evolved from three words in a row, “I LOVE NY”, to four characters in a row, horizontally, (the heart shape used to replace the word “LOVE”), to the four characters being stacked in two rows as it’s usually seen today. (Glaser admits he may have taken the idea to stack the four characters from Robert Indiana’s “LOVE” painting, “LO” above “VE.”) Other examples of his design approach include graphic programs for the Art Directors League of New York and the School of Visual Arts also in New York City. In each of these cases the design is the result of the careful juxtaposition of the letters and the manipulation of their sizes, style and color for emphasis and to reinforce the meaning of the words.

As good as Glaser is at using only typefaces to create compelling graphic designs it's his frehand figurative drawings that are really stunning. The book provides extensive examples of Glaser's work as a draftsman and watercolorist. Maybe his most famous drawing is a poster, (also used as a book cover), using a silhouette of Bob Dylan's head. The profile of his face is solid black with Dylan's colorful stack of curly hair rising from his head to the top of the page. His portraits of musicians from Bach to Beethoven to Bowie and including jazz and blues greats such as Ellington and John Lee Hooker are particularly expressive as drawings by themselves. Glaser integrates them effectively into posters and album covers.

The book concludes with the texts from articles Glaser has written and speeches he's given over the years. These provide more depth in understanding his views on graphic design, fine art vs. "commercial" art, advertising, and the narrow line separating influence and imitation. I especially liked his commencement address in 1997 at his alma mater, Cooper Union, nearly 50 years after he had graduated. He concludes his remarks with a command for the students to go forth and "do good work." Milton Glaser certainly sets a great example for them to follow whether they call it "work" or "art."

Art is Work was written by Glaser and published in 2000 by the Overlook Press. It has 277 oversized pages filled with full-color drawings.

Ed Buch, FCSI, CCS, AIA, LEED AP

Los Angeles, CA

April 30, 2018
As the building industry has begun to come back from the 2008 economic downturn the industry’s generational gaps are becoming more pronounced. With slow, but increasing growth, opportunities for emerging professionals and professionals are expanding. At the same time the challenges are increasing for the senior professionals to bridge the gaps between the emerging professionals and the rest of the profession.

Specifications and Emerging Professionals

Specifications are one of the most powerful design tools available to design professionals and emerging professional in the construction industry. Yet specifications continue to be the least understood and most underutilized aspect of construction documents.

Emerging professionals need to be more familiar with specifications. Specifications are only as enforceable as the level of information they contain. Emerging professionals that understand how to work with specifications are able to protect their design intent much more effectively.

Challenges for Emerging Professionals

What does the challenge entail? The AIA and CSI generally define the Emerging Professional (EP) as individuals working on obtaining licensure or having been licensed less than 10 years.

As has happened before, the economy faltering, the industry slows, and many emerging professionals take the opportunity or are forced to change careers and generally do not return when the industry rebounds. Senior professionals have been forced into early retirement or consulting. This leaves the industry with large gaps in experience levels. In this latest recession the senior level positions bounced back the strongest with a significant influx of emerging professionals fresh out of school.

If this is the case, what can the experienced professionals do to maximize their emerging professionals’ skills and talents? This requires examining 3 key questions:

- What do they know?
- What don’t they know?
- What do they need to know?

What Do EPs Know?

Let’s start with “What do they know?” When it comes to Architecture it will depend on the experience level of the EP but we know our basics, walls are vertical, floors are horizontal and preferably flat and the roof is up. That is of course simplified version of the knowledge with more. School has prepared EPs to think and to analyze the challenges to determine a solution. EPs are tech savvy and need to turn to technology to aid us in our problem resolutions.

What EPs Don’t Know

EPs don’t know much about specifications and why they are important; the details of how components come together, and the business of building buildings.

While EPs are very well educated and knowledgeable about a broad range of construction issues, they generally do not have the specific technical knowledge that only time in grade brings.

Senior professionals can significantly help EPs by getting them to understand more clearly what they do know and understand and how to best deal with the incredible amount of information that they will need and come to know.

What Do EPs Need To Know?

This is the place in which senior professionals can begin to bridge the experience gaps currently facing EPs. EPs need to know what senior professionals know as it is pertinent to day-to-day activities of the project team. One of the exciting parts of being an emerging professional is ability for the job learning. While it is very exciting, it does get to be quite overwhelming and often draining to be constantly adapting to new information.

Be careful of assuming that EPs know more than they actually know. EPs may act like they get it but often don’t really understand it at a truly operational level.

What is needed is an environment that encourages questions and celebrates failure as a growth point to allow emerging professionals to take ownership in their role in the process and foster active curiosity in project processes, especially specifications.

Helping EPs Develop Technical Knowledge

One of the most successful ways of helping EPs learn about specifications is to visit with product representatives on project related products and specifications. A tremendous amount of learning can take place working with product representatives on product selection, competitive product issues, coordination, and integration of project systems.

Another great way to help and mentor EPs is to take them to product shows and exhibits. Lydia and I have spent dozens of hours together walking product shows and talking with the exhibitors. I never cease to be amazed by the insightful questions she comes up with. The best part is when the product representative laughs at me for help. Sorry, dude, you are on your own.

Serious, product exhibits are great places to look and learn about products and systems. Since products are in 3-dimensions, it is so much easier to begin to understand how multi-element products such as roof systems go together. Water proofing systems are so much easier to explain and understand when you can actually see and handle the various components that make up a complex system.

Industry Change

The industry is changing and emerging professionals careers will not develop and go through the same kind of milestones they may have even 5 years ago.

The content and focus of NCARB’s Intern Development Program (IDP) program and Architectural Record Exams (ARE) are evolving away from technical building knowledge and into more comprehensive project management knowledge. This reflects the changing role of the architect and the specifications writer.

Depending on firm size, specialty, and philosophy, the preparation and delivery of projects is evolving from a task specific process into a team based comprehensive process in which an emerging professional may touch every aspect of the project.

Specifications Are Evolving

The lone spec writer, in some instances, is morphing into specifications being written by the project architect or even more challenging, by the entire project team. Talk about coordination issues! In this case the emerging professional will be faced with specifications much sooner than perhaps they would have had 10 years ago.

EPs and Specifications

It’s important to understand what while the typical emerging professional knows about specifications, it is generally very extensive. School does not spend much time teaching about specifications because they are viewed as a documentation tool not a design tool. This is where the senior
professionals must step up and take the time to educate not just emerging professionals but the industry as a whole why specifications matter and the power they have in quality control, project management, and protecting design intent.

Creating a learning environment for EPIs means ensuring that questions, good and bad, and active curiosity are strongly encouraged. This will foster a sense of partnership in the design team that can only better each project.

The responsibility is on the shoulders of the senior professionals in our industry to bring along the less experienced and to do so in a manner that empowers the emerging professionals to curious and encouraged to expand their knowledge.

Specifications and the specification process are far more than just lists of products or description of work results. Specifications are an integrated discipline that touches every part of the project providing powerful coordination and management tools for the design team.

Specifications, by definition, are documents that describe quality, appearance, and application for the entire scope of the project. Typically, specifications are not limited to building areas, configurations, or elements. If appropriately crafted, specifications can provide project-wide descriptions, standards, applications, and quality control for every part, element, and assembly in the project.

Anyone can write or edit specifications, it is not rocket science. However, only a knowledgeable and trained professional can use specification effectively to obtain the appropriate products and systems that meet the owner’s requirements.

It is mandatory that emerging professionals learn how specifications provide quality assurance and control. How the processes and procedures of Division 01 are critical to successful project management. And, most important, how specifications can protect the design intent of the project. There is literally nothing worse than losing control of the project because of incomplete, inadequate, or unenforceable specifications.

Emerging professionals must demand this type of critical training and step up and take advantage of the senior professional’s knowledge and experience. Any way you slice it must be a solid partnership if we hope to bring the power of specifications into the 21st Century.

Lydia J. Dillier, AIA is an Associate and Project Architect with HGA Architects & Engineers in Santa Monica, CA. Lydia is a graduate of the Rochester Institute of Technology and received her Masters of Architecture from the University of Oregon. She is an accomplished photographer and triathlete.

Michael D. Chambers, FAIA, FCSI, CCS has an unique background as architect, specifier, marketer, and product representative. Michael is a graduate of the University of Southern California, registered architect in California and a Certified Construction Specifier. Michael is an Associate Vice President and Senior Project Specifier at HGA Architects & Engineers in San Francisco and principal of MCA Specifications.
Didn't That Use To Be a Thing?

Some Thoughts on Word Obsolescence

While recently reading a science fiction novel set 200 years in the future, I ran across the term "personal data assistant." At first I thought it was some form of futuristic robotic helper until, a few pages later, the author also used "PDA." Suddenly it dawned on me; PDAs aren't visions of an imaginary future. They used to be a thing. In fact, they were a big enough thing that an intelligent science fiction writer in 2005, when the book was published, could reasonably assume they would be with us for centuries [1]. In the business world, they were ubiquitous. Everyone used a PDA to check email, maintain calendars, and store contacts. Yet today, in 2018, PDAs are pretty much gone. What happened?

The iPhone happened. When the iPhone was introduced in 2010, it could have been called a next-generation PDA or a next-generation cell phone. Apple picked the latter, and PDA, as a device and a word, almost immediately became obsolete. Since then all iPhones and similar devices have been called smartphones, a word that's been around since at least 1997, but didn't catch on until it became attached to iPhones, Androids, and similar devices [2].

**Personal data assistant** and **PDA** are just two examples of terms that are becoming obsolete in our lifetimes because the things they refer to are becoming obsolete. Nouns and verbs that refer to tangible things or actions can be quite fragile; to survive, they need the things they represent to survive as well. If the thing becomes obsolete, then the word must either attach itself to another thing or also become obsolete. In **PDA**'s case, it attached itself to only one kind of thing; once people didn't want that thing, then they no longer needed the word [3].

Other words, on the other hand, have proven remarkably resilient, and continually manage to attach themselves to new things as the older things disappear. An example is **album**. In his 1755 **Dictionary of the English Language**, Samuel Johnson defined **album** as a book for collecting celebrity autographs. By 1859, **album** referred to books used to collect photographs (a new technology). In the 20th century, **album** jumped to another technology: recorded music. A 78rpm disc could hold around three minutes of music per side. As early as 1909, multiple discs were used for longer pieces of music, or collections of songs. These discs were packaged in a box-like format, with separate sleeves for the discs. Since this looked like the photo albums people were familiar with, a multi-disc set also became known as an **album**. When 78rpm records were replaced by 33 1/3rpm long-playing records (LPs) in the early 1950s, **album** shifted itself to the new format, so that a single disc with multiple songs became known as an **album**. Today, even though LPs are mostly obsolete, **album** still refers to collections of songs, whether they're on compact discs or digital downloads. Whatever the future of music is in store for us, the word **album** is likely to find something to attach itself to. (Meanwhile, **album**, as a collection of photographs, has jumped into the virtual realm; smartphones still refer to collections of digital photos as **album**.)

So let's look at a few words and terms with the misfortune to attach themselves to technology that has become or is becoming obsolete, and, just for laughs, guess whether they are likely to survive:

**Music**

The music business has changed so much in the past 20 years that it's hard to predict what it will look like even 10 years from now. Many people have stopped buying physical objects containing music. Even so, LPs are still manufactured for aficionados who insist they (LPs, not aficionados) sound better than CDs or digital copies, and some music can still be found only on CDs or old LPs. But the 45rpm “single” with an A-side and a B-side may be going, and B-side doesn't appear to be ready to jump to something else. As for **sounding like a broken record**, we have generations of people who have never heard the endless repetition of a broken record (actually a scratched record, since a broken one wouldn't play at all), so the term may have only a generation or two left in it.

**Telephones**

**Dial tone** is a relic of when telephones had rotary dials, but after around 40 years of push-button telephones, the term still survives. Most people no longer physically **hang up the phone** to end their calls—even land-line phone calls are ended by pressing a button—but the phrase has been with us for so long, and has a pleasing physicality to it that “push the button” lacks, I suspect it will stay with us. I remember when making a **long-distance call** was a big deal, but it's been a long time since I've heard anyone use the term. I still receive several **phone books** each year that I never use, and I'm sure the day will soon come when physical phone books are no longer printed. But the term **phone book** is likely to remain as a name for a digital list of phone numbers—unless **contact list** replaces it. And finally, what about the word **telephone** itself? It has proven resilient in being the generic term for every variation of land-line device. But land lines themselves may be on their way out, and who knows, maybe **telephone** is too. **Phone**, on the other hand, has always been a sticky word, attaching itself to all forms of mobile telephone technology, for example, **cell phone**, **smartphone**, and **car phone**.

**Office and School Technology**

People have been writing on the naturally flat, erasable surface of slate for millennia, but not so much recently. Nonetheless, **clean slate** seems likely to survive as a useful phrase. But we probably now have students, and even adults, who have never heard fingernails scratching a blackboard [4]. My guess is that **nails on a blackboard** (and the word **blackboard** itself) may not survive another generation.

Before starting this article, I assumed that **carbon copy** was a thing of the past. After all, with typewriters all but gone and copy machines in most homes, who needs carbon paper? But Staples still sells the stuff, so someone out there must be using it. Meanwhile, for the rest of us, the only remaining vestige of carbon paper is the “cc” (for “carbon copy”) used in letters to show who has been copied (and since cc: has made the rather odd jump to email, it will probably be with us for a while).

As computer-based design and drawing has come to dominate today's architectural and engineering practices, we might expect many older products (and those products' names) to have disappeared. However, most if not all the items from the hand-drafting era are still available. For example, Kob-Loor still makes lead holders and Rapidograph pens and LetraSet makes rub-on letters. (I suppose you can, if you try hard enough, even find drafting linen somewhere, but my not-all-that-serious Internet search couldn't find it. [5])
Fax was a new word that described a new form of technology (i.e., facsimile machines), and then by extension the thing being transmitted ("Did you get the fax?"). But now, within just a few decades, fax is in trouble. The technology itself is becoming obsolete, and the word has yet attached itself to anything else (and doesn’t seem likely to) [6].

The word computer has been around since the 1600s, and originally referred to people who made calculations; for decades before electronic computers, teams of computers (usually women) were used to make complex astronomical calculations [7]. Computer easily made the jump to electronic calculators, but peripheral computer-related terms, such as noodle and floppy disc, are either gone or on the way out.

Photography

The dominance of digital photography, and especially of smartphones with built-in cameras, has put any term related to film in jeopardy. Some photographers still prefer shooting on film, so roll of film may last a while [7]. Meanwhile, the word slide has jumped technologies, and now more often refers to PowerPoint slides than to 35mm transparencies.

Can the Future of Words Be Predicted?

Predicting which technology-based words will survive and which won’t is impossible. Some of the words and phrases I predict won’t last, such as sounding like a broken record, may be more durable than I think. However, it seems true that older words that have already jumped technologies (e.g., album and phone) are likely to continue to attach themselves to new technologies, while words created to describe a specific technology (e.g., fax) seem less likely to survive. Wherever you are now, look around at the stuff that surrounds you; how much of it is technology that may in the not-too-distant future be replaced, along with the words that describe it?

Footnotes:

[3] Alan Metcalfe, in his book Predicting New Words, makes a nice analogy, comparing words to fleas: As long as a dog is alive, the fleas who live on the dog are fine. But when the dog dies, the fleas either find a new dog to live on or they also die. Similarly, a word is fine as long as the thing it represents (concept, person, place, object, action, whatever) is in use. But if the thing becomes obsolete, then the word either attaches itself to another thing or it becomes obsolete as well.
[5] Drafting linen? Many of you may not be familiar with this, but until the mid-20th century, drafting linen was the preferred medium for ink drawings. The linen was highly stretched and given a smooth surface, so it took ink lines well. By the time I was in architectural school in the mid-1970s, it had been all but replaced by mylar. But I did get the chance to create one linoleum drawing, and it was indeed a high-quality drawing surface.
[6] The fax machine in my office (see photo above) is used so rarely that dialing instructions have to be taped to it. (Note my using the word dialing when talking about pushing buttons.)
[8] Kodak has recently announced they will again produce Ektachrome color transparency film. But alas, no more Kodachrome.
Chapter Leadership

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