



VERMONT CHAPTER
PO Box 302
Williston, Vt. 05495



Green Mountain Specifier

October 2001

NEXT EVENT:

**NORTHEAST REGION CSI
REGION CONFERENCE
FRIDAY, OCTOBER 12, 2001
8:30 AM - 5:00 PM**

**“GREEN & SUSTAINABLE
IN VERMONT”**

SPEAKERS

Nadav Malin, Environmental Bldg News
Greg Norris, CSI, Sylvatica
Donna Leban, AIA, Light-Space-Design
Jeff Bridges, Energy Savings, Inc.
Ross Spiegel, RA, FCSI, CCS, CCCA
CSI Institute President
Ed Barna, Columnist, Rutland Herald
Sandra Vitzthum, AIA, Vitzthum Studio

LOCATION

Basin Harbor Club
Basin Harbor Road off Pantown Road
6 miles west of Vergennes, VT

AGENDA

8:30 Keynote: State of Green Bldg
10:00 Sponsor Break
10:30 Life Cycle Environmental
Evaluation of Buildings:
Tools & Trends
10:30 Using Daylight to Reduce
Building Energy Consumption
12:00 LUNCH
1:30 Using LEED to Evaluate your
Project's Greenness
1:30 Covered Bridges of Vermont
3:00 Sponsor Break
3:30 Choosing Materials that Work for
You and the Environment
3:30 Straw Bale Construction in the
Northeast

CREDITS

AIA Member & Architect Program
Attendees will receive credit for **1.5
Hrs.** of HSW or Health Safety &
Welfare Learning Units for each seminar
attended.

COSTS

CSI Members	\$150
Non-Members	\$200

October 12th Program

*CSI Region Conference
Multiple Seminars to Choose From!*

This week's event culminates three years of planning by the Vermont and Boston Chapter. As Chapter and Region Technical Chairman, Jonathan M. Miller, CSI, CCS, CCCA, AIA, has put together national, regional and state known speakers to present just what green and sustainable is. Nadav Malin, a nationally recognized speaker from Brattleboro, will give a detailed overview and current State of Green Building for us. Greg Norris, a Maine Chapter member, is the nations leading authority on life cycle costing. Our own Donna Leban along with technical help from Jeff Bridges, will speak to daylighting in a way were you can take the energy savings to the bank. A member of the U.S. Green Building Council, Fellow of the Institute, President of CSI and a specifier/architect, Ross Spiegel will go over the new LEEDs rating system sweeping the country as the method to use to see just how green is your building. Ed Barna is on the state preservation board for covered bridges. He has an in-depth historic, structural and poetic presentation on this Vermont icon. Nadav Malin has an encore presentation speaking to green materials. As the editor of the Environmental Building News, he is uniquely situated to speak to this subject. Sandy Vitzthum is an architect and educator who has developed an expertise in straw bale construction here in the frost-thaw region of New England. Come hear her speak to the details of how to do it properly up here in Vermont. Food is available at two breaks and a buffet lunch. E-mail Jonathan at campsi@earthlink.net to come.

WE WANT YOU ...

...to make a contribution to the Green Mountain Specifier – ideas, articles, letters, advertising or other relevant material (if you're nice, maybe we'll even take irrelevant material). Contact:

Chris Eling, CSI, Editor
chris@pmarch.com
Peter Morris Architect, Inc.
8 Roundtree Way
Vergennes VT 05491
phone: (802) 877-3830
fax: (802) 877-3972

NE Region Conference \$100 Member Rebate

The Chapter Board decided to offer a \$100 rebate to the first 12 chapter members who purchased either a Complete Conference Package (\$200) or a Technical Program Package (\$150). Members must request the rebate, show proof of registration and a copy of your check. So far 8 members have taken advantage of this offer. There are 4 opportunities left ! At this late date bring your form and check on Friday morning but first notify that you wish to attend to Jonathan Miller at campsi@earthlink.net .

NEXT MONTH:

NOVEMBER PROGRAM

“Concrete & Construction Methods”

SPEAKER

Herman G. Protze, III
ACI, ASTM, AAA, ASCE, ICRI
Construction Investigation and Analysis

TIME/LOCATION

Wednesday, November 7, 2001
The Burlington Sheraton - I-89 Exit 14

CONTINUING EDUCATION CREDITS

3 direct HSW hours of Learning Units
for AIA or VT Architect members.

Mr. Protze has more than 35 years of experience successfully resolving unusual and complex situations for clients requiring assistance in areas of forensic engineering and dispute analysis, failure and deficiency evaluations, and construction consulting services. He has extensive applicable background expertise in understanding and application of realistic concrete construction techniques coupled with theoretical knowledge of Portland cement concrete. In-depth understanding of the analysis and evaluation of deteriorated concrete structures, along with knowledge repair materials and methods gives him a value readily applied to current projects in our area and around the world.

This is an encore presentation for Mr. Protze. Four years ago the Vermont Chapter CSI and the Subcontractors Association brought Herman in to speak to 120 construction industry members.

AGENDA

1:00 Tabletop Mini Trade Show
1:30 Introductions & Speaker
3:00 Break & Tabletops
3:15 Speaker Continues
4:45 Seminar Ends

COSTS

CSI VT Members	\$25
Students	\$15
Non-CSI Members	\$35

Many thanks to John Kamencik and Bruce Jacobs, CSI of Don-Vac for helping to arrange this presentation.

The President's Corner

by Peter D. Morris CSI, RA

God Bless America

The events of 11 September seem to have taken the wind, and the humor, out of our sails and left me speechless and chatless short term. The first check of my family, friends, clients and associates has the inner ring safe and sound. I hope this as well for you.

It takes longer to probe and notice the greater impacts. Between the fears and phobias, I am finding reassurance, indeed some refreshing discourse and positive reactions throughout the country. Perhaps we have learned something from our past experiences. At the least, it's a good time to consider our freedoms, our diversity and appreciate the natural beauty that surrounds us.

Take some time to enjoy the foliage. Take advantage of the Northeast Region CSI Conference at Basin Harbor 11 October through 14 October 2001. Indulge an artist. You'll feel better.

Mark 12 October on your Calendar

Even if you cannot attend the whole Northeast Region CSI Conference at Basin Harbor 11 October through 14 October 2001, be sure to sign up for the Technical Programs which will be offered on 12 October. The theme is "Green and Sustainable in Vermont". Lunch is included in the registration. Registration deadline is 5 October. Contact Jonathan Miller CSI, CCCA, AIA at campsi@earthlink.net or (802) 864-2598 for continuing education credits and details.

A Call for Volunteers

With a little help from our friends, it does not take a lot of time to keep CSI going in Vermont. Right now, a few of us are doing a little too much. We would like to spread the load and you can help. We have the following leadership positions open:

Education Chair
Academic Liaison
Electronic Communications Chair (webmaster)

The Board meets for lunch once a month in the Burlington area. We discuss our outreach and future programs. If you can spare the time for lunch once a month you can help. Contact me at pm@pmarch.com, and we will include you at our next meeting.

New Memberships

The Vermont Chapter is seeking new members. If you know someone in the industry who should be on our e-mailing list and invited to our programs, please let Jonathan Miller know at jmiller@fffinc.com.



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LAST MONTH:

SEPTEMBER PROGRAM

“Safe Schools & Door Hardware”

SPEAKER

Shelley Hudson, CSI, CCPR
Ingersoll-Rand Co.

TIME/LOCATION

Wednesday, September 12, 2001
The Burlington Sheraton

CONTINUING EDUCATION CREDITS

2 direct HSW hours of Learning Units
for AIA or VT Architect members.

Shelley first went over some statistics on the current state of security in public schools today, and followed with some key points and goals to have in mind when designing for security. In talking about code restrictions, Shelley spoke about different ways to comply while maintaining the desired level of security. Electrical mag-locks were big here.

Segue into accessibility codes: a brief review of some familiar and not-so-familiar provisions, including door-widths, opening force, and door-closing speed. Here, demonstrations of door-closers came in.

Next came some facts to keep in mind when specifying hardware systems – at schools around the country, maintenance budgets and staffs are down, and doors/hardware have moved into the top 4 maintenance expenses.

Then came a “problems and solutions” segment. Topics here were access points, key control, and teacher/student safety. Problems with lock breaking? Shelley demonstrated a breakable lock that only needs an inexpensive pin to be replaced, and a “re-breakable” lock that can be pulled back into position after it is “broken.”

Lastly, door closers and exit devices were covered. A typical school’s front door will cycle 225,000 to 450,000 times each year – specify durable closers! And watch out for pressure relief valves – they are a one-time protection device, and the door closer no longer operates properly once the valve gives out.

Many thanks to Shelley Hudson, CSI, CCPR and Ingersoll-Rand for arranging this presentation. See their ad on p.5 !

The “Pencil And Paper” Mentality

Part 2 –Drawing Accurately

By Thomas E. Irvin, CCS, CSI, Architect In Private Practice

In Part 1: “Try A New Approach” (*Green Mountain Specifier*, September, 2001), discussion on “shedding the ‘Pencil and Paper’ mentality” reviewed the methods and procedures used to create drawings with pencil on paper and attempted to explain why they don’t always work when using CADD. The technique of developing and using drawing blocks to make the user more efficient and productive was mentioned as a powerful new tool for the user to learn. A future article will discuss how to employ drawing blocks effectively but for now, let’s examine why it’s important to draw accurately.

In the good old “pencil and paper” days, it was neither possible nor necessary to draw an image that was an exact representation of an object. Images had to be drawn smaller than full size so they would fit on a manageable-sized piece of *paper*. You might come close to being accurate if the object was small and was drawn larger than actual size. Even if you came close, you still calculate the true dimensions to ensure that the dimensions values applied accurately described the actual size of the object. The practice of creating an approximate size graphic representation of an object and confirming it with calculated dimensions describing the *exact* size long ago became the universally accepted method of communication between the designer and those tasked with producing the end product.

It seldom occurs to Architects and Engineers transitioning from pencil and paper to CADD that they need not be content with drawing “close enough.” They don’t realize that with CADD, they can draw objects more accurately than ever before. It doesn’t occur to them that they don’t have to calculate what the dimensions of the drawn object *should* be –the CADD software will do that for them. In fact, some become extremely frustrated when they discover that dimension values and what they think it *ought* to be don’t agree!

I get the same reaction when I suggest that my fellow architects set the *precision* of their CADD software to the highest setting possible before starting a drawing. They grin or smirk, look at me with that “I-understand-architecture-and-you-don’t” expression and say: “Why?” What they *should* be saying is: Why Not? So ingrained is the pencil and paper mentality that the concept of drawing accurately is as foreign to them as using the metric system (another long topic for another day). Simply stated, when you are given a precision tool to use in your profession, use its capabilities to the fullest –don’t be content with “close enough” *because you don’t have to!*

Enter the production managers and project bean counters arguing (as I’ve heard many times) that being precise is “...unnecessary...” or: “...it takes too long...”. In the pencil and paper days, they were right; it *did* take too long and was certainly unnecessary because you had to dimension the drawing anyway. Using CADD, these arguments are moot. It doesn’t take any longer to be accurate –you must perform the same steps to produce the image of the object anyway. As far as it being unnecessary, adherents of the “close enough” theory overlook the fact that CADD software’s dimensioning features will return the *exact* value of the distance it’s told to calculate. It doesn’t take a rocket scientist to conclude that the dimensions of an inaccurately drawn objects will also be inaccurate!

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New users of CADD often confuse *drawing* accuracy with *dimensioning* accuracy. They think that setting drawing precision high results in dimensions with fractional values in 32nds, 64ths, or even worse: 128ths or 256ths! To ensure that your drawings are accurate and no surprises appear in dimension values, set *drawing* precision as *high* as possible, but set *dimensioning* precision to 1/8th inch. Setting *drawing* precision high forces the software to produce accurate images. Setting *dimension* accuracy to 1/8th of an inch “forces” the software to round off and *display* a result which makes sense. Even though dimension values are rounded off, they’re based on precisely defined images which reduces any round-off error.

Don’t forget about angles! Nothing will mess things up quicker than drawing a line at some angle other than what was intended. If the line is off a fraction of a degree of angle over a long distance, it’s amazing how inaccurate a drawing can become. As a minimum, an accuracy of at least four decimal places for angular values is recommended.

Think of CADD as a very accurate calculator that displays results as images instead of numbers. As a user, rid yourself of the “pencil and paper” idea that it’s not necessary to be accurate; with CADD, you *can* be and *should* be. Use the software’s capabilities to the fullest to produce accurate images. Doing anything less is a waste of time. If you want to *sketch*, use a pencil and paper; if you want to *draw*, use CADD.

tei

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WHY ARE WE HERE?

The Construction Specifications Institute’s core purpose is:
To improve the process of creating and sustaining the built environment.



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**Joseph and Joyce
Zajchowski**
4/5/28 and 9/17/33 to
9/21/00

Dear Mom and Dad,

Although a year has gone by since you tragically left us, not a single day has passed where we do not wish you were still here to share life with us...if only for just one more day. No words can describe the enormity of our loss, or the depth of our sorrow. At times our grief has seemed overwhelming, the emptiness in our hearts unspeakable, but as time passes and we recognize your presence in our lives, we are able to see you in each of us, and we are comforted.

We feel your spirits guiding us as we make everyday choices to live our lives in such ways as to make you happy and proud of us. So often we wonder...What would Mom say? Or...What would Dad do? Somehow we always come full circle to the many things you have taught us, and the values you have instilled in us. Be honest, play fair, work hard, treat people with kindness and compassion, give of yourself, spread laughter, be peacemakers, forgive...love each other.

We know that your time on this Earth with us is complete, and that you will continue your journey into eternal life, but please know that you live on within us. Please continue to touch our lives with your spirits, and always know that you will be forever in our hearts...Until we meet again.

Your loving Children,
Kasia, Steve, Carol,
Greg, Laura, and Dave

Editor's Note:

The article at left was written by the children of Joseph and Joyce Zajchowski, and published in the Burlington Free Press to mark the passing of one year since their death. It was a personal loss for the family; it is reprinted here to mark the personal and professional loss of the Vermont Chapter of CSI. Joe and Joyce both worked enthusiastically to found and maintain the chapter, and they are greatly missed.

A Sugar Maple tree and a Bridalwreath Spirea have been planted at the Basin Harbor Club in Joe and Joyce's memory, respectively.



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& Consulting**

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THIS SPACE FOR RENT

Our VT chapter Newsletter is published monthly and distributed to over 150 local contractors, architects, product reps, engineers, and other CSI members.

Rates: for 10 issues, full-size ad (1.5"x3.8") \$80; half-size ad \$50

For more information contact The Editor.

We have an

EDITORIAL POLICY:

The Green Mountain Specifier is published as the official newsletter of the Vermont Chapter of the Construction Specifications Institute. Neither the Editor nor the Chapter assumes responsibility for any alleged errors, and opinions stated are not necessarily those of the Editor, the Chapter's members or leadership, or the Institute.

Contributions to the newsletter are welcome, and should be submitted to the editor by the 24th of the month in order to be included in the next issue.

Wren's Western Output

by Annette Wren, FCSI, CDT

"Let your life shine as an example!" If you read this column regularly, you have read that line before. For many years, that is the theme of my December articles. Due to the extraordinary events in our country on September 11, my feeling is that it is time for this message now!

"Let your life shine as an example!" We have witnessed the actions of pure goodness from humanity! We have witnessed tremendous courage. We have witnessed great sorrow. We have also witnessed the actions of pure evil. For many of us, it is time for reflection, gratitude and prayer. As we watch and read about the recovery efforts, many feel that they want to contribute in some way. And, many have found their way to contribute. Many of us in the construction community will be called upon in the future to contribute skills to build and rebuild structures of strength. Many experience feelings up and down the scale of emotions regarding the acts of kindness, atrocities, loss of life, and the uncertainty of any future terrorist acts. What will the future bring?

"Let your life shine as an example!" Humans pretty much live by example. Adults watch each other. Our children are watching. Even if you do not have children, children are watching the example that you are. We are aware that some children are being taught to hate others who are different. We have become more aware of "unevolved" cultures that promote hatred of the Western world. We know that we cannot influence everyone in a positive way. In the past, we have observed other countries that have a knee-jerk violent reaction to violence. We are aware of our government's positive example in their intelligent, vigilant efforts to find justice in a very twisted plot of destruction. The world is watching our example and actions. What can you do?

"Let your life shine as an example!" You are the answer! You are unique! You came to this planet as a one of a kind deal. No one can be like you or ever replace you. Forget about all of the so-called things that are supposed to be "you" like your possessions. Life is a gift that can be taken in an instant. This is a gift that none of us can keep indefinitely. When you leave, your possessions are not going with you. What you "are" will always be you, uniquely you. So, who are you and how can you be the answer?

"Let your life shine as an example!" You can just walk down the street and live your life. You can be a valuable citizen of our world just by your "being". You do not need to find the cure for cancer or walk on the moon. You do not need to save lives. You do not need to be famous. All you need to do is BE YOURSELF. Be your best self. Choose to be part of the solution on this planet not the problem. Choose to be a positive example for others in whatever you do. You can be an example by participating in the "agreement" that you will be the best in humanity! "Let your life shine as an example!"

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2001 Vermont Chapter CSI Events

- January 11** “Specifying & Designing Lighting”
Donna Leban, AIA
- February 8** “Code College 2001”
Bob Patterson, Asst. State Fire Marshal
Stan Baranowski, Asst. State Fire Marshal
- March 15** “CSI Certifications” at the Windjammer
Jonathan Miller, CSI, CDT, CCS, AIA
- April 12** “Paint and Coating Systems”
With tabletops at the Clarion Hotel
Sponsored by Sherwin-Williams Co.
Shance Burchill, CSI, ASID
- May 9** “Fireproofing and Firestopping”
Sponsored by W.R. Grace Co.
Bob Walsh and George Guanci
- June 6** Joint ASHRAE/CSI Awards Banquet
“Luau on the Lake” boat cruise on the ‘Spirit of
Ethan Allen II’ and with Hawaiian Cuisine
- July 12** “Doors, Frames & Door Hardware”
Basic & Electronic Hardware
William D. Lawliss, CSI, CDT – Essex Industries
- August 9** “Vermont Brick - Factory Tour” Highgate, VT
Sponsored by Vermont Brick & Trowel Trades
- September 12** “Codes & Door Hardware for Schools”
Burlington Sheraton – 11:15 AM to 1:30 PM
Shelley Hudson, CSI, CCPR – Ingersoll-Rand Co.
- October 12** North East Region CSI Conference – Oct. 11-14
Basin Harbor Club, Ferrisburgh, VT
“Green and Sustainable in Vermont”
Friday Technical Theme [Open to Non-Members]
Up to 8 hours of HSW Learning Units offered.
Jonathan M. Miller, CSI, CCS, AIA
NERCSI Conference Co-Chair
- November 7** Concrete & Construction Methods
Herman G. Protze, III, ASTM, ASCE, ICRA
- December 6** Division 17 – Communications Impact on
Vermont Construction, Burlington Sheraton
Michael P. Kirick, CSI, PE

New Members Welcome !

The Vermont Chapter CSI welcomes back Jeff Caird, CSI, now of Morris-Switzer and the following new 2001 members:

July 2001

Jerry Wolff, CSI
Parex, Inc.

June 2001

Michael Lancione, Student Member
Freeman French Freeman, Inc.

May 2001

Mitchell Weinberger, CSI
Acrymax / New England
Robert Labracio, CSI
R K Miles
Robert O. McEachem Jr., CSI
Intersource Roofing Sales
Bryant Bouchard, CSI
Schluter Systems, Inc.

April 2001

Michael P. Kirick, CSI, PE
Kirick Engineering Associates

March 2001

Christopher Eling, CSI
Peter Morris Architect, Inc.
JoLanna King, CSI
Compass Flooring Solutions

Interested in Joining CSI ?

Contact any of the chapter officers and we will put you on the road that can connect you to the rest of the construction industry and explain the benefits of chapter membership. You can also check out the institute’s website at www.csinet.org and the region’s website at www.neregioncsi.org for information, links and much more.

Sponsoring New Members ?

Take advantage of the institute’s program to reward each new member that another member sponsors with a \$25 CSI Buck Certificate. CSI Bucks are applicable to any institute publication or event. One Vermont member has cashed in over \$500 in CSI Bucks this year alone ! Contact Jonathan Miller for more information.