



The Messenger

Minnesota Educational Facility Management Professionals

THE "TOOL BOX" FOR EDUCATIONAL FACILITY
MANAGEMENT PROFESSIONALS

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Training Opportunity!

May 14th, 2013

MASMS State Meeting

Two Great Educational Sessions for Educational Members

- #1 How to make wise decisions to get the best return on your cleaning staff. Presented by Scott Haag, Hillyard
- #2 A Look at School Safety from an Intelligence and Facility Security Perspective. Presented by: Two former FBI & CIA Veterans and Brian Boelter, BLB Consulting

NEW THIS YEAR

An educational session specifically for business members!

"Business Member Boot Camp"

This session will cover what is presented in the two day
"Boot Camp" that educational members attend.

Presented by: Scott Hogen, New Ulm Schools &
Mike Boland, No. St Paul-Maplewood-Oakdale Schools

Date

Tuesday May 14, 2013

Location

The Crowne Room, 20500 South Diamond Lake Road, Rogers, MN 55374

Schedule

8:30 AM	Coffee & Registration
9:00 - 10:15 AM	<u>Educational Session for Educational Members</u>
9:00 - 11:00 AM	<u>"Business Member Boot Camp"</u>
10:15 - 10:30 AM	Break & Networking
10:30 - 11:45 AM	<u>Educational Session for Educational Members</u>
11:45 AM - Noon	Networking & Business Meeting
Noon	Lunch

On-line registration preferred: Go to www.masms.org, and click on **Login**. Your user name is your first initial of your first name followed by your last name (example: jsmith), and your password is masms (unless you have changed it). Then click **Meeting Registration**, select State Meeting, enter your information and press **Submit**.

Jim Fredricks Leadership Scholarship 2013

The MASMS Scholarship Committee is accepting applications from Dues Paying & Life time School Members who are interested in pursuing further education in the field of Building Maintenance.

The Jim Fredricks Leadership Scholarship is in Memory & Honor of the former Director of Facilities at the College of St. Benedicts. Jim was instrumental in the formation of the MASMS structure, served as Treasurer, Chapter President, State President, and was the NSPMA National President.

How to Apply :

Complete the application form and write a short essay according to the following criteria: (Max 2 pages)

- * Tell us the class you are interested in, why you are interested in taking it, and how it would improve your skills in this profession.
- * Tell us how long you have been with MASMS, what activities you have attended and been involved in, and if you have served on any committees.
- * What activities/groups have you been involved in outside the organization, in the community, etc.
 - Have you served in the Armed Forces

The application form may be found at the MASMS web site—www.masms.org. Select “Resources” from the left hand side of the window, and then select “Scholarship”. The form can be found toward the bottom of that page.

New MASMS Members

Educational Members

Maureen Winge, W. St. Paul-Mendota Heights ISD #197

Jason Splett, Park Rapids Area Schools

Tom Thomalla, Roseville Schools

David Petersen, Tri-City United Schools

Lisa Johnson, West St. Paul-Mendota Hts Schools

Business Members

Greg Prokop, Twin City Outdoor Services

Steve Rutledge, Raptor Technologies

Steve Hensel, Brothers Fire Protection

Matthew Kiemen, Ryan Company, Inc.

Rob Frei, Ryan Company, Inc.



MASMS Web Site
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Looking for a way to thank your custodial, maintenance & grounds staff?



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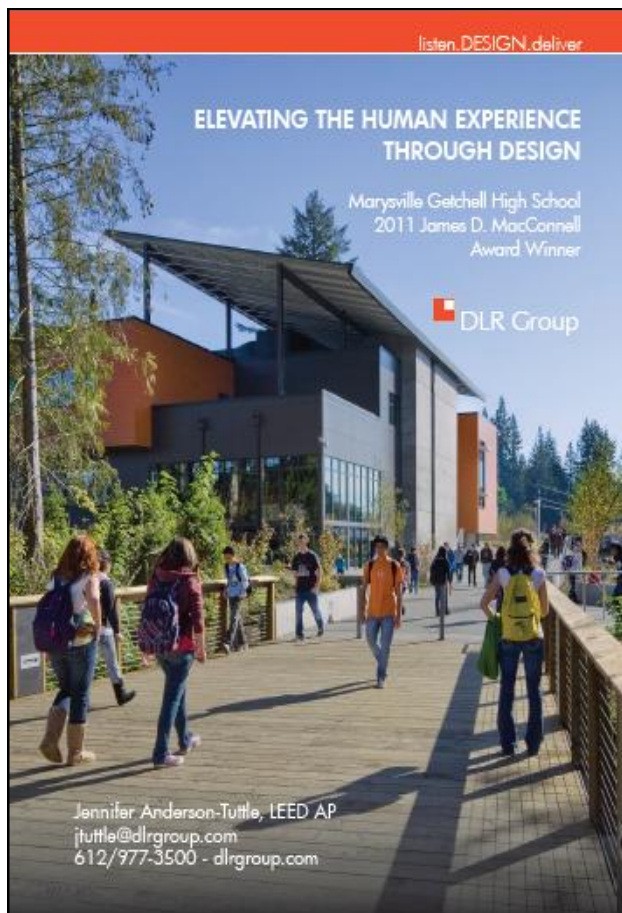
2013 MASMS Custodial, Maintenance & Grounds Days

Metro Chapter—June 12th OR June 13th, 2013
Oak-Land Jr. High School (Stillwater Schools)
Lake Elmo, MN

Northern Chapter—June 18th, 2013
ROCORI Public Schools
Cold Spring, Minnesota

Southern Chapter—June 20th, 2013
Mankato Public Schools
Mankato Minnesota

Registration materials have been mailed!
Let's make this year the best year ever—
we are looking for record breaking attendance!



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Stinky smelly students affect IEQ in Schools

Submitted by: Tess Simon, Big Ass Fans

School campuses are a mix breed these days as either antiquated structures, new environmentally conscience construction or retro-fits combining old and new. It's easy to blame students for weak academic performance, but an often overlooked contributor is a facility's indoor environmental quality (IEQ), which affects students regardless of the climate. Introducing air movement into such facilities goes a long way to curtail these negative conditions.

Semester system

Condensation and stratification can factor into poor IEQ during the winter, while summer months breed discomfort typical of hot weather. A December 2000 Environmental Protection Agency study entitled *IAQ Tools for Schools* found that student attendance "rose 5% after incorporating cost effective indoor air quality improvements."

The airflow achieved from installing large diameter, low speed fans allows academic facilities to maintain occupant comfort in an environment where silence and proper air movement are essential. Properly engineered six to 24 feet large diameter fans work with HVAC systems, natural ventilation or independently to distribute air efficiently over large, densely populated spaces including classrooms, auditoriums, cafeterias, libraries and student centers where stagnant air is common. The fans effectively move large volumes of air slowly and gently without disrupting a facility's atmosphere, providing year-round comfort.

Energy Efficient IEQ

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) has set standards on the amount of outdoor air necessary in spaces with HVAC systems to counter the off-gassing of contaminants in indoor spaces as a result of flooring, furniture, paint, VOCs and the occupants themselves. Adequate IEQ is typically a concern between 3- and 72-inches from the floor, which is considered the occupant breathing zone.

In a traditional HVAC system in the winter, only about 80 percent of the fresh air brought into a space reaches the designated occupant level which means the system must compensate for the lost air to create a space that complies with ASHRAE Standard 62.1-2007, Ventilation for Acceptable Indoor Air Quality. The addition of large diameter, low speed fans to circulate the air down to the occupant level not only helps to keep IEQ levels in check but reduces reliance on the HVAC system. This air circulation compensates for the insufficient mixing of the supply air and room air, as well as the natural buoyancy of the hotter air to remain at the ceiling level. Large circulator fans turn the air in the space over several times per hour ensuring good air distribution without generating a cooling effect or a draft.

Fans at work

The one-building Breckenridge campus of Colorado Mountain College is a cross between a mountain lodge and an upscale hotel lobby. Anticipating a heat stratification problem, facility director Sam Skramstad and the HVAC design team wanted to destratify the air in the 800 sq. ft., 40-ft. high lobby. "It's a four pipe ducted system with all of the ducts at the ceiling level," said Skramstad, so much of the heat collected at the ceiling. To reverse the phenomenon, a 10-foot diameter large diameter fan was installed. Prior to the fan installation, CMC Breckenridge was never able to heat the floor level above 68 F despite a temperature setpoint of 72 F. "The fan has been able to maintain a temperature of 72 degrees even on a minus 9 F day," said Skramstad. This prevents any condensation issues that previously occurred with the uneven distribution of heated air.

This shared aspiration of quality IEQ and energy efficiency has led facility managers to implement large diameter, low speed fans to drive down HVAC costs while maintaining comfort in all facilities.

Window Questions

CEE (a MN non-profit) is working with the MN Dept. of Commerce and CSBR at UMN on window retrofit technologies research and would like to learn more about your experiences with windows and window projects. Please take 5-10 minutes to review the following questions and respond to ctraczyk@mncee.org.

Any information you provide will be kept confidential and anonymous. Your responses are greatly appreciated and will help to determine if retrofit technologies provide a cost-effective option for improving energy efficiency in MN buildings.

Thank you!

- Has your school completed window replacement projects or installed any after-market window retrofit technologies in the last 10-20 yrs (window film, interior/exterior panels or storms, etc.)?
- Is your school planning a window replacement or after-market window retrofit technologies project (window film, interior/exterior panels or storms, etc.)?
- Does your school inventory windows data on your buildings such as window age, glazing type (single pane, double pane, etc.), frame type (wood, vinyl, aluminum, etc.), and/or common maintenance issues related to building envelope/windows?

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Incorporating quality design, inspections, and maintenance to lengthen the life of the building

Restore
Renewing the building envelope instead of new construction

Grow
Creating a green roof that is engineered to last and provide benefits

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Selecting materials that directly improve the environment

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As a school or school district, it's likely that you use pre-rinse spray valves daily to manually spray off the food waste in the kitchen before the dishes go into the washing machine.

If that's the case, there is a simple test that could save your school big money.



If you can fill a one-gallon container in thirty seconds or less, you should probably invest in a new pre-rinse spray valve. Why? Because older units typically use three gallons of water or more each minute, versus the newer models that use 1.28 gallons a minute or less with the same or better performance. Depending on how often and how long you are using the sprayer, this difference can result in BIG energy, water, and cost savings.

Continued on page 7.

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Avoid wasting hundreds to thousands of dollars on your school's utility bills... continued.

We're here to help.

The Minnesota Clean Energy Resource Teams, or CERTs, has designed a program to help schools save energy and money. "We're always looking for smart and easy ways that schools can save on their utility bills," says Alexis Troschinetz with CERTs. "We've estimated that a school switching to an efficient sprayer that is used about one hour a day could save around \$475 a year."

Another simple and inexpensive way to see substantial savings is by replacing water aerators on sinks throughout a facility. "A lot of sinks still have flows of 2.2 gallons per minute," says Troschinetz. "This program makes available 0.5 and 1.0 gallon per minute aerators for hand-washing stations. You can often save over \$100 per year per sink, just by unscrewing the old aerator and replacing it with a new one."

Get with the program: CERTs has created the "Make A Splash" program to draw attention to these often overlooked and simple retrofits that meet at the intersection of water and energy savings. CERTs is also happy to calculate the energy and water savings gained through your participation in this program for you to report against your school's energy efficiency, water conservation, or sustainability goals. Anyone can order the pre-rinse spray valve units for \$28 (typically \$68 retail) or the faucet aerators for \$0.50 (typically \$2 retail) through an easy online order form available at www.splash.mncerts.org.

Which schools are taking action, and what are the results? Five K-12 schools or school districts participated in the Make a Splash program in 2011 by installing anywhere from 1-3 spray valves and 2-100 faucet aerators each. We estimate they are each saving anywhere from \$200-3,100 per year. Keep reading to learn more about their individual successes and what they have to say about the program.

Atwater-Cosmos-Grove City School District, for instance, made a relatively small investment by purchasing three pre-rinse spray valves and 50 faucet aerators for \$120. We estimate that they are now saving over \$3,000 each year.

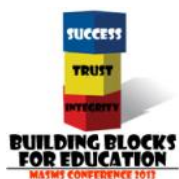
On top of energy savings, a staff member at St. Michael-Albertville School District #885 in Albertville, MN was impressed with the spray valve performance: "The new spray valves actually work better than the old ones, because they have higher pressure and thus clean the surfaces better. I would like to outfit the rest of the school district."



Bethlehem Academy in Faribault, MN has also been busy saving water and energy: "We have replaced all sink aerators already in the school along with shower heads that were 4.5 gallons per minute (gpm) with ones that are 1.5 gpm, and have replaced toilets that were 3.5 gallons per flush (gpf) with ones that are 1.25 gpf. The pre-rinse spray valve is another good thing to replace."

This year, three K-12 schools or school districts are already participating in the Make a Splash program. Your school could join them and quickly enjoy the benefits of this simple and inexpensive energy-saving measure!

To learn more and place an order, visit www.splash.mncerts.org.



MARK YOUR CALENDAR! MASMS 2013 Fall Conference

Thursday October 3rd and
Friday October 4th, 2013
NEW THIS YEAR

37+ Educational Sessions

**Plan now for you and your staff to attend—there will
be educational sessions for everyone!**



How did April's Fool's Day Begin?

The custom of playing tricks on friends on April 1st is believed to have originated in France in the middle 1500s.

Before that time, one calendar was used throughout Europe. Under this calendar, each new year began on April 1st.

On that day, people celebrated by exchanging gifts and visiting each other.

Then in 1564, King Charles IX of France adopted a new calendar and decreed that each new year was to begin on January 1st. However, while most people followed their king's decree, there were some who did not like the idea of the change and refused to accept the new New Year's Day.

These people soon became the butt of jokes and tricks by their friends and neighbors because they continued to observe April 1st as New Year's Day.

These friends and neighbors sent mock gifts, invited these people to fake parties, and played tricks on them because they were "April Fools," people who clung to their April New Year's Day.

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For School Staff



Understand and Prevent Youth Firesetting



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Prevent Juvenile Arson

- In the state of Minnesota a child as young as 10-years-old who plays with fire and damages property may be charged with arson.

Schools Can Help

Any student who brings to school ignition devices, such as matches, lighters or fuel such as gasoline needs help. By calling the toll-free help line, school staff can initiate the intervention process for a student. The help line is monitored daily.

The child's family contact information will be forwarded to the local youth-firesetting intervention specialist so the child and family can receive life-saving information and education. There are several programs available in Minnesota designed to change the behavior of youth at risk.

- Juvenile arson accounts for more than 50% of the total arson arrests in Minnesota.
- Statistics show that of the children killed in fires, more than 50% of those children started the fires themselves.

The Minnesota State Fire Marshal's Office sponsors the youth firesetting helpline for anyone involved with children at risk of firesetting behavior ~ parents, teachers, school staff, social services, law enforcement & others.



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MASMS is accepting enrollment in the new MASMS Certification Program.

Information and enrollment on this certification program may be reviewed at the MASMS website (www.masms.org), or by contacting the MASMS office (ruth@masms.org).

If you have any questions, just contact the MASMS office at (888) 429-3884 or ruth@masms.org. The process of achieving and maintaining MASMS certification ensures that you are continually improving and refining your skills.

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MASMS CALENDAR

April 9, 2013 Metro Chapter Meeting - Crowne Plaza North Brooklyn Park MN
 April 17, 2013 Southern Chapter Meeting - SW/West Central Service Cooperative, Marshall MN
 April 18, 2013 Northern Chapter Meeting - Central Lakes College, Brainerd MN
 May 14, 2013 STATE MEETING, Rogers MN
 May 16, 2013 Northern Chapter Meeting - Central Lakes College, Brainerd MN
 June 12 & 13th, 2013 Metro Chapter - Custodial/Maintenance/Grounds Days, Lake Elmo, MN
 June 18, 2013 Northern Chapter - Custodial/Maintenance/Grounds Days, Cold Spring, MN
 June 20, 2013 Southern Chapter - Custodial/Maintenance/Grounds Days, E HS, Mankato MN
 July 17, 2013 Southern Chapter - Aquatic Seminar/Picnic, Duck Lake Madison Lake MN
 October 2, 2013 MASMS Scholarship Golf Event, St. Cloud, MN
 October 3 & 4, 2013 STATE CONFERENCE, St. Cloud, MN

Education Security Seminar April 11, 2013

Presented by industry expert Paul Timm,
PSP of RETA Security Inc.

Sponsored by Ingersoll Rand Security Technologies

8:00 am to 4:30 pm at Target Field
This event is for anyone interested in learning more about school security.

SPACE IS LIMITED. Registration is required.

Day-long Security Seminar topics include:

- Learn how to identify/address areas of vulnerability
- Best practices in current emergency preparedness
- Worst case : When/how to conduct a lockdown
- Creative sources of funding for school security

Who Should Attend? Facilities Directors, School Security /Safety Personnel, Administrators, Principals and Superintendents, Architects, IT Directors, Emergency Responders.

Instructor: Mr. Paul Timm, PSP—Paul is a board certified Physical Security Professional (PSP), the president of RETA Security, Inc., and one of the nation's leading experts in school and campus safety.

Location: Minnesota Twins Baseball Club at Target Field, Thomson Reuters Champions Club, 1 Twins Way, Minneapolis, MN 55403

Cost: Ingersoll Rand will cover the cost of the seminar and parking. Continental Breakfast & Lunch provided.

Continuing Education: Participation in the course earns 6 AIA learning units

To register visit: <http://w3.securitytechnologies.com/irst/industries/Pages/SeminarRegistrationForm.aspx>

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