

ILLINOIS MASTER PLUMBER

ILLINOIS ASSOCIATION OF PLUMBING•HEATING•COOLING•CONTRACTORS

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June 2017



Jeff Brown *Elected*
Illinois PHCC President

2017-18

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PRESIDENT'S THOUGHTS

by Jeff Brown
Illinois PHCC President

HELLO,

I would like to take this time to introduce myself as your 2017-2018 Illinois PHCC President. I would like to add that it's an honor for this opportunity. My name is Jeff Brown, and I am a partner in PipeWorks, Inc. with past president Erik Graybeal. I have been in the trade since 1994, and have had the privilege of being part of the Bloomington/Normal PHCC since 2003.

To add a little more to my past, I was fortunate to have worked as a union plumber before having the opportunity to go into business in 2002.

GOALS . . .

A couple of things I would like to see in the next 12 months.

✓ **INCREASED
MEMBERSHIP**

✓ **MEMBERSHIP
INVOLVEMENT**

I would like to thank Steve Stimson for the great job he has done over the past year. He leaves behind big shoes to fill and I look forward to the challenge.

Until next month, everyone be safe and take care.

Jeff Brown 

CALENDAR OF EVENTS

OCTOBER 4-6, 2017

PHCC Connect '17
Milwaukee, WI

NOVEMBER 11, 2017

Illinois PHCC & Auxiliary Board Meetings
TBD

MARCH 23, 2018

Illinois PHCC Expo & Educational Day
Drury Lane Conference Center
Oakbrook Terrace, IL

MARCH 24, 2018

Illinois PHCC & Auxiliary Board Meetings
Hilton Suites
Oakbrook Terrace, IL

JUNE 7-9, 2018

Illinois PHCC Convention
French Lick Resort
French Lick, Indiana



JEFF BROWN

INSTALLED AS ILLINOIS PHCC PRESIDENT

Jeff Brown of PipeWorks, Inc. in Bloomington, Illinois was elected President of the Illinois PHCC at the association's annual meeting in March. President Brown was installed on June 16th at by Illinois PHCC past president Erik Graybeal. The remaining officers and directors were installed by PHCC National Zone 3 Director Brad Isley. The event was held at the Embassy Suites in East Peoria.

Other officers installed were: Vice President, Mike Ehret, Ehret, Inc., Belleville; Treasurer, John Matthews, X-Treme Mechanical, Inc., Champaign; Secretary, Jim Boos, Boos Enterprises, Inc., Effingham; and President Emeritus Steve Stimson, G.A. Rich & Sons, Inc., Deer Creek.

Following the installation and dinner, attendees competed for prizes by playing Team Trivia. Everyone enjoyed the fun and friendly competition. 



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ILLINOIS PHCC PAST PRESIDENTS MEET

The Illinois PHCC Past Presidents Club met on June 16th in East Peoria, Illinois to discuss business and initiate their newest member, Steve Stimson. 



Pictured L-R, front row John McWilliams, Erik Graybeal, Tammy Rich Stimson, Steve Jany, Terry McCarthy. Back Row, Jerry Rich, Dan Mahoney, Rob Page, John Baethke, Paul Buddy, Brian Rich.



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ILLINOIS PHCC BOARD MEETS

The Illinois PHCC Board of Directors met on June 17th at the Embassy Suites in East Peoria, Illinois. Reports were given from the Education, Legislative, Code, Publications, Risk Management, Convention/Expo, Image, and Membership committees. Updates were given on the Union Affiliated Contractors (UAC), Capital Development Board (CDB), and the Illinois

Mechanical & Specialty Contractors Association (IMSCA). PHCC Zone 3 Director Brad Isley reported on the activities of the PHCC National Association. The next meeting of the Board will be November 11th with the location to be determined. All members are welcome, and encouraged, to attend the meetings of the Board. 🇺🇸



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ILLINOIS PHCC AUXILIARY 2017 SERVICE PROJECT

This year's annual service project was held on June 16th with the benefactor being the Dream Center. The Dream Center is a faith-based not-for-profit organization located in downtown Peoria founded by Riverside Community Church in 2002. Their mission is to impact individuals and families in poverty, with a large emphasis on kids and youth. This goal is accomplished through a three-pronged approach – Basic Human Needs, Youth Development and Community Outreach.

Auxiliary members solicited members, contractors, and local associations for donations of



diapers, wipes, and/or cash to help with the Center's programs. Those donations were delivered when Auxiliary volunteers went to the Center to donate their time cleaning and organizing the pantry and living areas at the Center.

In their past service projects, the Illinois Auxiliary has helped deployed military members, senior citizens, the Center for Prevention of Abuse, the children of St. Jude Children's Hospital, Central Illinois Riding Therapy, Midwest Food Bank, Project Linus, and the afterschool program for at risk youth at the Unity Center. 



AUXILIARY LUNCHEON

The Illinois PHCC Auxiliary held a luncheon in appreciation of outgoing president, Alicia Todd. The event was held on June 16th at the Thyme Kitchen in Peoria.



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Congratulations

Steve Stimson

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Year to the New President**

Jeff Brown



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WHAT'S WRONG WITH THIS PICTURE?

What's wrong? This is one reason we have an Illinois Plumbing Code, and we require Plumbers to be licensed. From the looks of the installation, this appears to be an afterthought with exposed water supply and vent piping. A good guess would be that the urinal was added because a public health, or other agency, required the urinal for a food service establishment.

The following comments, code section references, the physical address, along with a picture containing a time and date stamp, submitted to the appropriate agency should be enough to get a case started with the Illinois Department of Public Health and/or Illinois Attorney General's Office.

There is no consideration for ADA compliance regarding clear floor space or the fixture installation for cleaning and mounting of the fixture. The flexible (gas) appliance connector from the undersized soft copper to the flush valve is also an indicator the installer had only handyman experience.

One might look at the flexible (gas) appliance connector and say "what does it matter, the water is just supplying a urinal" and no one is drinking this water (we hope).

First, the flex connector is not approved material as required by Appendix A and is not sized according to 890.TABLE D. The yellow colored piping indicates it is to be used for GAS not water, and if it is non-potable water the color should be purple (after an approved backflow device).

There could be other code violations of the Illinois Plumbing Code and the Illinois Accessibility Code, such as fixture height and other ADA elements, but there is only so much you can see in the picture.



Section 890.660 Urinals

b) Urinal Flush Valves. No valve shall be used to flush more than one (1) blow-out, siphon-jet or pedestal urinal. One (1) properly sized automatic flush valve may serve more than one (1), but not more than a battery of three (3) washout urinals, and shall flush at least four (4) times per hour. The water supply line to each urinal flush valve shall be as required by the manufacturer, but not less than three-fourths (3/4) inch. Protection

against backflow shall be provided by an approved vacuum breaker.

Section 890.630 Installation

- a) Cleaning. Plumbing fixtures shall be installed in a manner to afford easy access for cleaning.
- b) Securing Fixtures. Floor outlet or wall hung fixtures shall be secured by screws or bolts of copper, brass or other equally durable corrosion resistant materials.
- f) Improper Location. Piping, fixtures or equipment shall not be located or installed so as to interfere with the normal operation of windows, doors or other exit openings. Plumbing fixtures shall be installed in an area where there is sufficient room

for the fixture to be used for its intended purpose.

- g) When plumbing is installed it shall meet the requirements of the Illinois Accessibility Code.

Section 890.1120 Color Code

Identification of Piping. All piping conveying non-potable water shall be permanently identified by a continuous purple coloring so that the piping is readily distinguishable from piping carrying potable water.

Section 890.APPENDIX A

Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

Section 890.TABLE D

Minimum Water Distribution Pipe Size

Urinal (flush tank)		1/2
Urinal (direct flush valve)		3/4

Section 890.210 Materials

All materials, piping, fittings, appliances, appurtenances, faucets, fixture fittings, fixtures and devices used in all plumbing systems shall be approved by the Department, in accordance with the following criteria:

- i) Manufacturer's Identification of Material. The approved agency ensures that each length of pipe, each pipe fitting, trap, fixture, device and appurtenance used in a plumbing system has cast, stamped or indelibly marked on it the maker's mark or name, weight, type, class of product and the standard that applies.

Section 890.APPENDIX A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

Section 890.TABLE A

Approved Materials and Standards

- i) All materials shall meet at least one of the approved standards listed.

We had no winner this month. The contest will be on hiatus until the August issue when we will again test your knowledge of the Illinois Plumbing Code.



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REVISIONS TO THE IL PLUMBERS LICENSING CODE

Revisions to the Illinois Plumbers Licensing Code (750 Rules) became effective on June 17, 2016. They can be viewed at <http://www.ilga.gov/commission/jcar/admincode/068/06800750sections.html>.

A printed version that can be easily inserted in to your Illinois Plumbing Code book is available from the Illinois PHCC. **They can be purchased at any Illinois PHCC CEU class for \$3.00, or by mail for \$5.00.** Make checks payable to the Illinois PHCC and mail to 821 South Grand Ave. West, Springfield, IL 62704.



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LEGISLATIVE UPDATE

By Bev Potts

The Spring Session of the Illinois General Assembly again ended with no budget agreement. Legislators will continue to meet during June to attempt a resolution before the June 30 fiscal year end. We will continue to monitor issues and provide updates. Following are some of the bills we have been watching and working on.

Plumbing/Piping/Trade Related Bills:

HB 265 (M. Flowers) Creates the Lead in Schools Reporting Act. Provides that annually the IDPH, in coordination with local health departments serving the City of Chicago, shall conduct specified lead testing at public schools within the City. Provides for reporting requirements. Re-referred to House Rules.

HB 354 (D. McSweeney) Creates the School Water Supply Testing Act to provide that water supplies available for drinking water use in all classroom-instruction public school facilities, non-home-based private school facilities, charter school facilities, and special education facilities shall be tested for lead at least once a year. Re-referred to House Rules.

HB 1300 (M. Madigan) Amends the Fire Sprinkler Dormitory Act to make a technical change. Re-referred to House Rules.

HB 1974 (J. Durkin) Amends the Illinois Plumbing License Law to make a technical change. Re-referred to House Rules.

HB 2586 (A. DeLuca) Appropriates \$5,708,650 from the Capital Development Fund to the Board of Trustees of Governors State University for the repair and, as necessary, replacement of the plumbing and piping system. Assigned to the House Appropriations for Higher Education Committee.

HB 2672 (K. Cassidy) Amends the Illinois

Residential Building Code Act to make a technical change. Re-referred to House Rules.

HB 2816 (C. Sente) Creates the Materials Reuse and Recycling Act to provide that the EPA shall require that for all new construction projects at least 5% of the materials used for the construction project are reused materials. Provides that no municipality or county may adopt a building code that requires the use of all new materials in the building's construction. Provides that reuse of used, recycled, or reclaimed construction materials shall be allowed as of right in all municipal, county, or statewide building codes. Re-referred to House Rules.

HR 94 (C. Winger) A resolution to encourage the Illinois State Board of Education and the IDPH to work in collaboration with local school districts to develop and implement plans for the testing of Legionella. Resolution adopted 5/19/17.

SB 66 (M. Hastings) Creates a tax deduction for labor and materials to install mechanical insulation property on mechanical systems for energy savings. Re-referred to Senate Assignments.

SB 448 (J. Cullerton) Amends the Fire Sprinkler Dormitory Act to make a technical change. Amended to change the subject. Passed the House and the Senate.

SB 1450 (L. Murphy) Amends the Illinois Residential Building Code Act to make a technical change. Referred to Senate Assignments.

SB 1451 (T. Link) Creates the Small Wireless Facilities Deployment Act. Provides for legislative intent for the Act and definitions. Makes references to building codes. Passed in the Senate, and on 3rd Reading in the House. Deadline extended to June 30th.

SB 1568 (I. Martinez) Amends the Fire Sprinkler Contractor Licensing Act to make a technical change. Referred to Senate Assignments.

SB 1943 (D. Koehler) Amends the Illinois Plumbing License Law and EPA Act. Provides that each school district, or their designee, shall arrange to have the samples it collects to test each source of potable water in a school building for lead contamination submitted to a specified laboratory. Provides that, within 7 days after receiving a final analytical result concerning such a sample, the school district or their designee that collected the sample shall provide the final result to IDPH. Passed the House and the Senate.

Other Construction/Business Related Bills:

HB 2351 (B. Currie) Creates the Wage Lien Act to provide that a lien exists on an employer's property for the amount of unpaid wages owed to an employee. Re-referred to House Rules.

HB 2493 (J. Hoffman) Amends the Prevailing Wage Act to provide that a public body shall specify in the call for bids that each bidder be a responsible bidder. Requires contractors and subcontractors to report the hours worked by minorities and females. Re-referred to House Rules.

HB 2582 (R. Pritchard) Amends the Illinois Procurement Code; provides for executive agencies, CMS, and the CDB to enter into guaranteed energy savings contracts. Requires the agencies to enter into a RFP; sets forth requirements for the request for proposals; sets forth provisions concerning the evaluation of proposals. Requires guaranteed energy savings contracts to result in energy or operational cost savings within 20 years. Requires contractors to reimburse the State for any shortfall of guaranteed energy savings projected. Removes prior provisions allowing the CPO to promulgate rules for entering into energy conservation program contracts. Re-referred to House Rules.

SB 950 (P. Althoff) Same as HB 2582 above. Re-referred to Senate Assignments.

HB 2799 (B. Phelps) Amends the Illinois Procurement Code; provides that a State purchasing officer or CPO may award a sole source contract to a qualified HUBZone small business concern, subject to certain restrictions. Re-referred to House Rules.

HB 2996 (M. Zalewski) Amends the Illinois Procurement Code; removes procurement expenditures made by the U of I from the application of the Act and from the definition of "State agency". Re-referred to House Rules.

SB 222 (B. Cunningham) Same as HB 2996 above. Re-referred to Senate Assignments.

SB 1237 (W. McCann) Amends the Workers' Compensation Act. Provides that the Dept. of Labor, the Dept. of Employment Security, and the Illinois Workers' Compensation Commission Compliance Div. are authorized to, and shall, perform on-site job site inspections to determine compliance with the Act. Re-referred to Senate Assignments.

SB 1287 (J. Mulroe) Amends the School Code to provide that a duty of regional superintendents is to inspect the energy conservation measures of schools. Provides for: procedures for the submission of proposals; changes made under guaranteed energy savings contracts to be subject to performance reviews; changes the period of time in which guaranteed energy savings contracts begin becoming cost effective from 20 years to 8 years; changes references from "energy or operational costs" to "energy operating costs". Gutted by amendment. On 2nd Reading in the Senate.

SB 1358 (K. McCarter) Amends the Workers' Compensation Act. Provides that an employee who is required to travel in connection with his or her employment and who suffers an injury while in travel status is eligible for benefits only if the injury arises out of and in the course of

employment while he or she is actively engaged in the duties of employment. Provides that an injury is a condition that arises out of and in the course of employment, and adds provisions concerning establishment of an injury. Provides for the computation of compensation when there are multiple employers and when there is less than full-time work. Provides that no employer shall be required to pay temporary partial disability benefits to an employee who has been discharged for cause. Provides that, following a hearing, the Illinois Workers' Compensation Commission may reinstate the temporary partial benefits and retroactively restore any benefits the employer should have paid if it finds the employer's discharge of the employee was not for cause. Re-referred to Senate Assignments.

SB 1513 (K. Lightford) Creates the Apprenticeship Utilization Act to provide that on projects

covered under the Prevailing Wage Act where the estimated cost is in excess of \$250,000, all specifications shall require that no less than 15% of the labor hours within each trade be performed by apprentices of that trade. Re-referred to Senate Assignments.

SB 1832 (J. Mulroe) Amends the Mechanics Lien Act to provide that all moneys withheld as retainage from payments made to any contractor or subcontractor under any construction contract, except those contracts that provide for retainage of 5% or less, shall be held in trust for the benefit of the contractors and subcontractors from whom the retainage has been withheld. On 2nd Reading in the House.

Contact the Illinois PHCC office with questions/comments on any legislation or regulatory activity.



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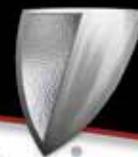
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Employment Screening Trends and Pitfalls

Business in most industries continues its upward trajectory in 2017, and companies are hiring at a brisk pace. With the increased urgency in hiring, some companies have found it necessary to hire first, ask questions later. This can be risky. Employers should be aware of and minimize potential liability during their hiring process.

Background Screening

Background checks can be useful to help employers make personnel decisions. An employer may, where appropriate, ask questions about an applicant's background or require a background check. But there are some risks involved. Implementing the following may help minimize those risks.

- Be sure to consult with your attorney, and **review and comply** with federal, state, and local laws regarding background checks, as many regulate this information. For example, the "Ban the Box" regulation limits the scope of verbal and/or application questions to help ensure people with criminal convictions have a fair chance to work. It may also define the timeframe during which background checks can be conducted.
- With the help of your attorney, create a **process** that clearly outlines the checks you order (e.g., motor vehicle records, credit checks, criminal checks, drug tests, etc.) and how this information will or won't be used in employment decisions.
- In all cases, make sure your actions are **consistent but not rigid**. Define your decision-making criteria but use good judgement in assessing a candidate's unique, individual circumstances. Treating candidates consistently helps reduce the potential for discrimination.

Social Media

There is no question that social media is changing the way businesses work. The use of social media in the hiring process is becoming more common and can provide a better picture of a potential candidate. But, a person's online postings could contain many pieces of information that may be considered protected. For example, even a brief search could reveal:

- Age
- Sex/Sexual Orientation
- Race/Color/National Origin/Religion
- Disability/Pregnancy/Medical Conditions

Once you review a candidate's online profile, a court will likely assume you are aware of that person's protected characteristics. If you choose to include a social media review as part of your hiring process, here are some best practices to help reduce your risks:

- Use information available only to the public at large. Do not ask for passwords or attempt to "friend" candidates in order to access private information.
- Develop a policy that clearly outlines permitted uses of the information, sites you review, etc.
- Wait to do your search until after you've met the candidate in person.
- Be consistent—conduct the same searches at the same point in the process for every candidate.
- Ask your attorney whether you should print or save screen shots as documentation if you see something that you use in your hiring decision.
- Consider the source. There are things like cyber bullying and imposter social media accounts. You may want to give the candidate a chance to explain objectionable content.
- Be aware of and comply with federal and state laws that apply.

Keeping up on the latest trends and pitfalls in employee screening is prudent to successful hiring and hiring practices. For more information specific to your situation and state, log in to the [Federated Employment Practices Network \(FEPN\)](#) or consult qualified legal counsel. To learn more about FEPN, contact your [local Federated marketing representative](#).

This article is for general information and risk prevention only. It is not legal or other expert advice, nor does it identify all possible risk exposures. The recommendations may help reduce the risk of loss but are not guaranteed to do so. The information presented may be subject to, and is not a substitute for any laws or regulations which may apply. Consult qualified counsel with questions specific to your circumstances. The information is accurate as of April 2017 and subject to change. © 2017 Federated Mutual Insurance Company.

PHCC LAUNCHES NEW ESTIMATING TOOL: CLOUD-BASED LABOR UNIT DATABASE

The PHCC National Association has partnered with Harrison Publishing House's CINX platform to offer a new cloud-based PHCC Labor Unit Database that can help contractors streamline the estimating process and prepare accurate bids.

The database includes more than 13,000 national average installation times, third-party verification of labor hours and cross-platform compatible data with a growing list of software vendors. Purchasers of the comprehensive database gain access to an in-depth material pricing format and options to create their own pricing workbook.

"This innovative cloud-based technology gives contractors an instant gateway to proven plumbing and piping installation times – anywhere, anytime – allowing them to become more efficient *and* more profitable," says PHCC President Patrick Wallner. "It's the latest addition to new products and services that PHCC is developing to help our members become the 'contractor of choice' in their markets."

"We are proud to partner with PHCC to provide this new labor-unit service to its membership," said Harrison President David McPhaul. "PHCC members across the country will be able to prepare more accurate estimates and improve their project performance by accessing their labor unit costs through our industry-leading CINX platform."

The PHCC Labor Unit Database is exclusively available through the PHCC Online Store, either as a standalone product through CINX or as an add-on with several estimating software platforms.

For a limited time only, a **free 30-day trial** is

available to experience the flexibility of the database, accessible from both desktops in the office or mobile devices on the road. Call 800-533-7694 for the free trial.

For more information, visit www.phccweb.org/LaborUnitDatabase. 



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OSHA, HOLDER CONSTRUCTION GROUP PARTNER FOR SAFETY AT NORTHEASTERN ILLINOIS DATA CENTER CONSTRUCTION SITE

Participants: U.S. Department of Labor's Occupational Safety and Health Administration Holder Construction Group LLC

Partnership: The strategic partnership will protect and educate workers on construction hazards during the building of the DuPont CH3 Data Center project in Elk Grove Village, Illinois.

The partnership was developed jointly by OSHA and general contractor Holder Construction Group as well as by the state's Labor Department On-site Safety and Health Consultation and several local unions. They include Plumbers Local Union 130; International Brotherhood of Electrical Workers Local 134; United Brotherhood of Carpenters & Joiners Local 839; Laborers International Union of North America Local 118; Pipefitters Local Union 597; International Association of Iron Workers Local 1; International Union of Operating Engineers Local 150, and International Association of Sheet Metal Workers Local 73.

The partnership will:

- Develop effective safety and health training programs and procedures.
- Identify common construction hazards such as falls, electrical, struck-by, caught-in, silica, carbon monoxide, heat stress, cranes and noise.
- Encourage worker participation in employer safety and health programs.
- Ensure 100 percent of contractors and subcontractors have site-specific written safety and health programs.
- Require each employee to attend a job site safety orientation before working on the site.

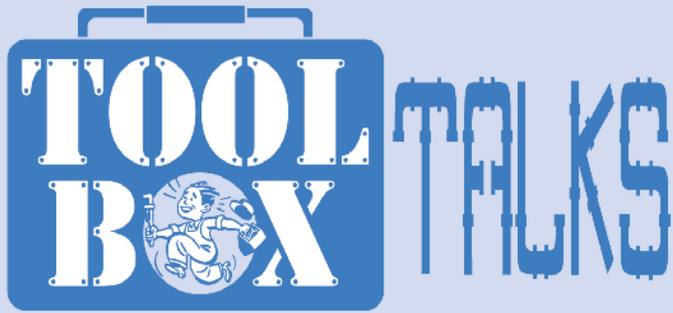
The DuPont CH3 project consists of a 317,000-square-foot data center. The project is scheduled for completion in late 2017. During construction, up to 30 subcontractors with 300 tradesmen may be employed on-site.

Duration: The agreement terminates on Dec. 1, 2017, or when construction is completed, if that occurs sooner.

Background: Through its Strategic Partnership Program, OSHA works with employers, employees, professional and trade associations, labor organizations and other interested stakeholders to establish specific goals, strategies and performance measures to improve worker safety and health. For more information, visit <http://www.osha.gov/dosp/partnerships/index.html>.

Quote:

“Our focus is to forge a working relationship that will prevent serious workplace construction hazards and establish a foundation for the development of effective safety and health program at the sites,” said Angeline Loftus, OSHA’s area director for the Chicago North Office in Des Plaines. “In order to support jobs and job growth in America employers must provide safe workplaces.”



SIX WAYS TO PREPARE FOR THE ALLERGY SEASON

Another important ToolBox Talk brought to you by the Quality Service Contractors (QSC) – An Enhanced Service Group of PHCC, P.O. Box 6808, Falls Church, VA 22040.

Ph. 800-533-7694. Visit our website at: <http://www.qsc-phcc.org>.

Six Ways to prepare for the Allergy Season

Seasonal allergies have a way of creeping up on you, making you feel less than your usual, productive self. Taking a few steps prior to the onset of allergy season can help give you the upper hand in managing those early spring allergies once they hit.

1. CHECK YOUR MEDICINE CABINET



Be ready to start your allergy medication when symptoms begin. That way, you can limit their severity. Go through your medicine cabinet, check packaging and labels, and toss anything past its expiration date.

2. GET OUT YOUR SUNGLASSES AND A WIDE-BRIMMED HAT



Wearing a hat and sunglasses when you head outside will limit the amount of pollen that blows into your eyes. And they'll protect you from harmful UV sunrays at the same time.

3. START WATCHING LOCAL POLLEN REPORTS



Keep an eye on local pollen counts, so you'll know when allergy season kicks off in your area. Download a pollen counter or allergy app. There are quite a few apps that will tell you the pollen count for the day.

4. SPRING CLEAN YOUR GARDEN



Prepare your garden for spring before peak pollen season arrives. Clear away dead leaves or plants to limit mold growth. Once the weather is warm enough, plant away!

5. ADD MORE FRUITS AND VEGETABLES TO YOUR DIET



Fruits and vegetables are powerful sources of antioxidants, natural chemicals that can help you to fight the inflammation that comes with allergic reactions.

6. STOCK UP ON GREEN TEA



Green tea contains natural antihistamines that can assist in your fight against allergies—and a steaming hot cup of tea soothes scratchy throats and loosens mucus at the same time.



STUDY ESTIMATES UP TO 170-BILLION-GALLON WATER SAVINGS PER YEAR THROUGH WATER-EFFICIENT TOILETS

Water-efficient toilets could potentially save up to 170 billion potable gallons of water per year across five states facing water scarcity, according to new research released today by the Alliance for Water Efficiency (AWE) and Plumbing Manufacturers International (PMI).

The “Saturation Study of Non-Efficient Water Closets in Key States” focused on Arizona, California, Colorado, Georgia and Texas – all states that have experienced serious water shortages. The savings projected by the study (170 billion gallons of potable water yearly or 465 million gallons saved per day) could be achieved if non-efficient toilets in residential properties are replaced with water-efficient ones. This five-state savings can be extrapolated to an estimate of up to 360 billion potable gallons of water per year saved nationally.

Non-efficient toilets defined as those using more than 1.6 gallons per flush

The five-state water savings estimate was calculated after the study’s research determined that more than 13 million non-efficient toilets, with gallons per flush (gpf) of more than 1.6 gallons, remain installed in Arizona, California, Colorado, Georgia and Texas residences. These 13 million toilets comprise about 21 percent of all toilets installed in these states; therefore, about 79 percent of installed residential toilets in these states are already efficient at 1.6 gpf or less.

Using the AWE/PMI study estimate of 170 billion gallons of water, these examples – illustrated in this infographic – show how much water can be saved within residential properties located in the five states included in the study:

- Enough water saved to take 10 billion showers – more than one for each person on the planet
- Enough water saved to serve the indoor home water needs of a city of 100,000 for 45 years
- Enough water saved to fill 250,000 Olympic-sized swimming pools
- Enough water saved to fill 1,000 Rose Bowls
- Enough water saved to equal the water that goes over Niagara Falls in 2 1/2 days

Current water-saving technology can make a tremendous impact

The AWE/PMI study demonstrates that current plumbing technology can make a tremendous water-saving impact, especially if toilet replacement programs

can be accelerated. At the current 4 percent annual toilet replacement rate, the potential savings illustrated in this study will not occur for another 15 to 30 years unless replacement programs are accelerated.

This study’s results also merit consideration within the current federal and state regulatory environment. At the federal level, proposed cost cutting at the Environmental Protection Agency threatens the WaterSense program, a voluntary public-private partnership initiative to encourage the use of water-efficient toilets, showerheads, faucets and other plumbing products. Through the use of the more than 16,000 WaterSense product models on the market, the nation has already saved more than 1 trillion gallons of water over the past 10 years.

About the Alliance for Water Efficiency

The Alliance for Water Efficiency (AWE) is a North American 501(c)(3) nonprofit organization dedicated to the sustainable and efficient use of water. Based in Chicago, AWE works with nearly 400 water utilities, water conservation professionals in business and industry, planners, regulators, and consumers. As the leading voice for water efficiency, AWE’s platform brings together innovative technical resources to facilitate adoption of water conservation programs, cutting-edge research to address pressing challenges, and a collaborative dialogue amongst stakeholders to further adoption of water conservation programs.

www.allianceforwaterefficiency.org

About Plumbing Manufacturers International

Plumbing Manufacturers International is the voluntary, not-for-profit international industry association of manufacturers of plumbing products, serving as the Voice of the Plumbing Industry. Member companies produce 90 percent of the nation’s plumbing products. As part of its mission, PMI advocates for plumbing product performance and innovation contributing to water savings, sustainability, public health and safety, and consumer satisfaction. For more information on PMI or its conferences, contact the organization at 1921 Rohlwing Road, Unit G, Rolling Meadows, IL, 60008; tel.: 847-481-5500; fax: 847- 481-5501.

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2017-2018 Continuing Education for Illinois Licensed Plumbers

<u>Date/Time</u>	<u>Location</u>	<u>Fee</u>
<input type="checkbox"/> **September 22, 2017 – 1:00 pm-5:00 pm	John A. Logan College, Carterville, IL	\$50.00
<input type="checkbox"/> **September 23, 2017 – 8:00 am-12:00 pm	America’s Best Value Inn, Vandalia, IL	\$50.00
<input type="checkbox"/> **October 13, 2017 – 1:00 pm-5:00 pm	Northfield Inn and Suites, Springfield, IL	\$50.00
<input type="checkbox"/> **November 3, 2017 – 1:00 pm-5:00 pm	Rend Lake College Marketplace, Mt. Vernon, IL	\$50.00
<input type="checkbox"/> **January 12, 2018 – 1:00 pm-5:00 pm	*Heartland College, Bloomington/Normal, IL	\$50.00
<input type="checkbox"/> **February 23, 2018 – 1:00 pm-5:00pm	*Heartland College, Bloomington/Normal, IL	\$50.00
<input type="checkbox"/> **March 23, 2018 - 9:00 am -1:00pm	Drury Lane, Oakbrook Terrace, IL	\$35.00

No Walkins – No Exceptions. All Registrations for the March 23 class must be received before March 1, 2018

<input type="checkbox"/> **April 6, 2018 – 1:00 pm-5:00 pm	Rend Lake College Marketplace, Mt. Vernon, IL	\$50.00
<input type="checkbox"/> **April 20, 2018 - 1:00 pm-5:00 pm	*Heartland College, Bloomington/Normal, IL	\$75.00

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Please check the session you will be attending.

TOTAL AMOUNT ENCLOSED \$ _____

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4 Credit Hours

To register, complete this form by checking the location you will attend, provide your complete address, make checks payable to Illinois PHCC and mail to Illinois PHCC ♦ 821 South Grand Avenue, West ♦ Springfield, Illinois 62704
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IMPORTANT:

You **MUST** bring your Plumbers License with you to the program. Please arrive no later than 30 minutes prior to complete the registration process. Directions are available on our website at www.ilphcc.com
Cancellation Policy: IL PHCC reserves the right to cancel a course due to insufficient enrollment. If we cancel a course, you will be notified and your pre-registration will be refunded to you or you may transfer to another location. There is no refund for any registration not cancelled (10) working days prior to the class. Cancellations made prior to (10) working days will be charged a \$15.00 cancellation fee. There will be a \$50.00 service charge for any checks returned due to insufficient funds.

In compliance with the Americans with Disabilities Act of 1990, the Illinois PHCC Association will make all reasonable efforts to accommodate persons with disabilities at its meetings. Please call 217-522-7219 with any special requests.



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