



PIPELINE

FUEL FOR YOUR BUSINESS

JAN/FEB 2019

THE NEWSLETTER OF UTAH'S HVACR INDUSTRY

153 SOUTH 900 EAST, #3 • SLC, UT 84102 • WWW.UTRMGA.ORG

It's that time again! RMGA Sweetheart Social

**Saturday,
February 9
5:30-9:30 PM
Desert Star**



JOIN IN THE FUN at Desert Star's presentation of "My Big Fat Utah Wedding" at RMGA's Sweetheart Social beginning at 5:30 PM with a group dinner in the Desert Star theater, followed by a musical comedy that begins at 6 PM at 4861 S State Street, SLC, UT 84107.

The longest running show in Utah history is back for its 15th Anniversary!

Gretchen has never been in a hurry to find the man of her dreams but now she's 26 years old, and in Utah, well...that's against the law! Her parents are putting the pressure on as she finally meets Dax, a guy who's really caught her eye.

There's only one problem...he's not a member of her Church!

With a couple whacky and jealous friends to complicate matters, there is plenty working against these love birds and it's all hilarious! Will there be a wedding after all? We think you already know the answer, but don't miss your chance to revisit this classic and all the comedy of the Christensen Family and their Big Fat Utah Wedding!

Couples and Singles welcome call RMGA Office at 801-521-8340 or send an email to john@utrmga.com. \$45 for singles, \$85 per couple! ■

What's Happening at RMGA in 2019?

IT IS A NEW YEAR, and RMGA has more training classes scheduled than ever before.

Every other month, we offer RMGA Certification Training, and this year we are offering a February class as well. Sign up early to ensure getting into the class of your choice: Feb. 15-16 & 23, Mar. 8-9 & 16, and May 3-4 & 11. July, September and November class schedules will be posted in the new year.

RMGA's annual Education Summit is Wed., April 10 this year. We will be discussing 2018 Code Changes, which will also be the topic for this year's Spring Technician training class and the Fall Technician training will focus on Green Sticker Service calls.

RMGA is not just about training, but networking with

fellow HVACR industry leaders. At our annual RMGA Sweetheart Social (Sat. Feb 9), we include spouses, enjoy musical theater, and this year, we are having a big raffle drawing! Get involved with RMGA by attending our monthly apprenticeship committee meeting and RMGA board meetings. We begin at 11:00 AM with an apprenticeship meeting, followed by lunch (only \$5) and the RMGA board meetings start at noon.

RMGA Apprenticeship and Board Meetings dates for 2019: Jan. 9, Feb. 13, Mar. 13, May 15, Jun. 19, Jul. 17, Aug. 14, Sep. 18, Oct. 16, Nov. 13, and Dec. 11.

Call 801-521-8340 or email RMGA at john@utrmga.com to get on the RMGA Board Meeting email list. ■



MESSAGE FROM THE PRESIDENT

RYAN RENTMEISTER

Ryan Rentmeister
ryan@rentmeister.com
801-807-9901



Dear RMGA Members & Friends,

I hope you all had a nice relaxing Christmas and New Year's. It is nice to take a break and spend time with family and friends and see the good in the world. Now for the great time of the year of closing out the books for the year and getting ready to pay all those taxes. It is also a great time of the year to plan for the future. With all the challenges in the industry right now it is important to plan for your company's future. If you don't have a business plan you quickly become a part of someone else's business plan. As you plan the next year or two let us know how RMGA can help you succeed more. We have several classes scheduled for this year and will add more as needed. Is there a certain subject you would like covered in a class or at the Education Summit, let us know. We want to help you succeed. We also want to be a unified voice for the industry to fight for our common needs. We will continue to work with the legislature and monitor and interject as needed. If you would like to become more involved let us know. Feel free to contact me directly with any concerns or needs you have. I am here to help. Have a great and profitable year.

RMGA 2018-2019 OFFICERS & BOARD MEMBERS

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RMGA EDUCATION CLASSES

**New Pre-test
Evaluates
Technician
Readiness**

GAS CERTIFICATION CLASSES

Salt Lake City

Friday, February 15,
Saturday, February 16 &
Saturday, February 27
8 am - 5 pm

All classes will be held at:

Dominion Energy
CTC Training Room

1000 West 100 South, SLC, UT

Salt Lake City

Friday, March 8,
Saturday, March 9 &
March 16
8 am - 5 pm

All classes will be held at:

Dominion Energy
CTC Training Room

1000 West 100 South, SLC, UT

Salt Lake City

Friday, May 3
Saturday, May 4 &
May 11
8 am - 5 pm

All classes will be held at:

Dominion Energy
CTC Training Room

1000 West 100 South, SLC, UT

Gas Certification Classes price: \$400 Members, \$450 Non-members.

Price includes the RMGA Study Guide, IFGC Book, online videos, instruction and lunch all 3 days, one testing fee and two attempts at exam (if necessary).

Call 801-521-8340 to register for all classes

New RMGA Certification Class Policy

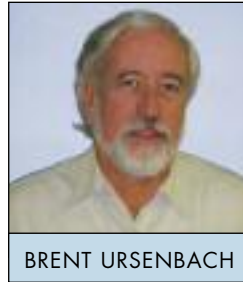
ACCESS TO THE RMGA ON-LINE VIDEOS and a technician's "free exam retake" is **limited to six months** after the last training day of their Certification class. For example, Technicians who take the Jan 18-19, and 26 RMGA Certification Class have until June 26, 2019 to access the on-line videos and use their test retake voucher.

If a technician who previously took an RMGA Certification class wants to take the class again, he pays only \$125. If the technician has an old study guide (prior to September 2018) and wants a new one, the cost is just \$25 for all new tabs and text pages, and the technician simply reuses their current binder.

If you signed up for an RMGA Certification Class and need to cancel there is a grace period of one week before the class start date. You will receive a credit, not a refund, to be used towards a future class. **Cancellations less than one week before the class are subject to a \$125 fee.** Discretion is allowed for major emergencies.

MECHANICAL CODE DISCUSSION

Energy Efficiency in Existing Buildings



BRENT URSEBACH

BRENT URSEBACH

HVAC EDUCATOR/
EXPERT WITNESS

bursenbach@gmail.com
385-468-6694

THE CODE DISCUSSION SUBJECT in the 2016 November/December *Pipeline* addressed requirements when HVAC systems are replaced in existing buildings. The items discussed included permits, load calculations, building envelope improvements, duct system improvement and vent system upgrades. In this discussion, we'll consider repairs, alterations, and additions to existing buildings and how these changes may impact existing HVAC systems or trigger additional HVAC upgrades, including International Energy Conservation Code (IECC)



compliance. This is a limited, brief review. Please contact me if you would like to discuss further. Also see IRC N1107 and IECC Chapter 5.

Repairs and Maintenance:

A repair is defined in the Code as: *The reconstruction or renewal of any part of an existing building for the purpose of its maintenance or to correct damage.*

The I-codes do not require permits for maintenance and repair of building components including plumbing piping and valves, HVAC component replacement and building repairs. The

only requirement is *building structures and parts thereof*, shall be maintained in a *safe and sanitary condition*. Never should a repair impact or alter the safe operation of an HVAC or other building system.

Alterations:

Defined as: Any construction, retrofit or renovation to an existing structure other than repair or addition. Also, a change in a building, electrical, gas, mechanical

or plumbing system that involves an extension, addition or change to the arrangement, type or purpose of the original installation. Alterations are modifications within an existing building

footprint and includes any altered building components or building systems. Examples include building tenant improvements, HVAC retrofits, restroom modifications or upgrades, window replacements including frames, roof replacements, and insulation upgrades. Each altered item must comply with the energy code.

A tenant improvement (TI) to an empty building shell basically requires the entire construction process to comply with the current code, including ADA, fire sprinklers, HVAC design, ventilation/exhaust, economizers,

lighting systems and controls. The only exception may be the building thermal envelope, i.e., windows, doors, and insulation are not required to comply with current code, IF, the initial shell construction complied with the envelope energy code at the time of construction.

Important item! Where an alteration creates conditioned space, in a previously un-conditioned space, the entire space must be brought into full compliance with the energy code. In other words: adding heating and/or cooling systems to a previously unconditioned warehouse, garage, storage, or similar space, triggers the requirement to fully insulate walls, roofs, floors, and to upgrade doors and windows in accordance with the current energy code.

Another condition triggering *full energy code compliance* is where there is a change in use or occupancy in a space, where there is an increase in energy usage, due to the new use. An example of this condition is an office space in a strip mall building is vacated and the new tenant is a restaurant. This is a completely different use/occupancy; therefore, this TI is treated like a new space, and must comply with the current adopted code. There is limited 'grandfathering'. The space must comply with all IECC requirements including IECC mechanical requirements such as load calculations, equipment efficiencies, controls, damper

leakage, demand-controlled ventilation, heat/energy recovery, duct sealing, testing and insulation, kitchen hoods, make-up air, fire suppression, and possibly full building commissioning.

One final HVAC alteration item:

Where a new HVAC system is added to a residential dwelling unit, with the air handler and/or duct located in an attic or crawlspace, duct blaster testing per the energy code is required.

Additions:

Defined as; *An extension or increase in the conditioned space floor area, number of stories or height of a building or structure.* This is simpler, as the entire addition must fully comply with the energy code. The existing portion of the building is exempt, if it remains unaltered. The typical addition often includes an alteration in the existing building, creating a condition where the entire building may have to comply with all codes for a new building.

In closing, please remember I retired from Salt Lake County, May 1, 2018; however, I continue to work part time teaching energy code and serving as an energy code resource across the state. I continue to welcome your input and questions. Please use the following email for questions or comments: bursenbach@gmail.com.

Happy New Year! May it be a great year for each of you. —Brent ■

Develop talent now for a successful future

While incentives such as bonuses and profit sharing are important, recognizing achievements and building self-esteem are priceless.

Some business owners procrastinate or avoid communicating their succession plans because they fear how family members and employees might react. However, their silence may actually create more stress and cause harm to the business. Most employees—including family members—will feel more secure about the future if they know what to expect and how they will fit in.

It's never too late to develop a business succession plan. But the earlier you start, the better. Estate planning experts agree that long-term plans to transfer businesses are generally much more successful than those "patched together" following the unexpected death or disability of an owner.

Business succession actually begins with each employee's first day on the job

Think about it, whether he or she is one of our children or a high school student working part-time, that young person could someday be the head of the company.

Experts agree—succession planning includes creating an environment that motivates employees to use their talents and skills to reach their full potential and contribute to the success of the business. Sounds simple, but how do you accomplish it?

Perhaps a mentor program or an apprenticeship is a good start. Talented young people are more likely to stay with the company if they feel involved in something bigger than their own job. It is wise to provide opportunities by matching experienced workers with newer employees to guide them as they grow in their jobs.

As employees gain experience, they become assets to your business and their value increases. Providing key employees opportunities to gain well-rounded business experience through cross-functional training and experience is admirable. This no doubt helps them become dependable managers who can make good decisions and take initiatives to improve operations.

This article from Federated Insurance. More can be found at:

<https://www.federatedinsurance.com/ws/fi/InsuranceResources/index.htm>

It's Life
Your Life
A Vision for the
Next Generation

Advertise in RMGA PIPELINE!

This size ad for only \$120!

Call Duane Hill @ 801-521-8335

to reserve your space!

**WELCOME NEW
RMGA MEMBER!**

BRYAN JEWETT

Craig's Heating and Cooling

315 North 200 West

Bountiful, UT 84010

801-295-3357

cssappliance@qwestoffice.net

Meet and Get to Know: KINLEY PUZEY

Q. What is your position within your organization?

A. I'm currently the Director of Technical Programs at the Davis Technical College. I oversee all programs in our school of construction and school of business and technology.

Q. When you were a child, what did you want to be when you grew up?

A. I've always loved drawing and building things. I wanted to be either an artist or a contractor. Instead I became an architect which is a good mix of both.

Q. Why do you relate to the HVACR Industry?

A. I'm a licensed architect and the director over the HVAC program at Davis Technical College.

Q. What are your favorite aspects of your job?

A. My favorite part of my job is that I get to constantly learn new things and meet new people. Every once in a while I'm able to help someone else learn something new as well.

Q. How did you become affiliated with your organization?

A. I started working at the Davis Technical College three years ago. I started as an instructor in our Architectural and Engineering Design program. I then transitioned into my current position overseeing all the construction trades programs including HVAC.

Q. What is a motto that you live by?

A. Dream Big — Work Hard — Be Kind

Q. If you could travel anywhere in the world, where would you go?

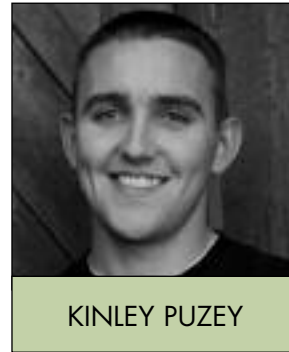
A. I love traveling! I've been to most of the United States. I've visited Canada, South Korea, Russia, France, Belgium, the Netherlands, China, and Thailand. I would love to visit Spain, Italy, and Switzerland. I love seeing new places and exploring the local architecture.

Q. What three items are always in your fridge?

A. Ice cream, ice cream, and ice cream.

Q. What is the most high-tech thing in your house?

A. I recently purchased an old home that



I'm currently renovating. Lately we've replaced the old furnace and installed central air. So the new HVAC system and the new digital thermostat (Nest) on the wall is about as

high tech as I get right now.

Q. What is your favorite place to shop?

A. Home Depot, of course.

Q. What is your favorite movie?

A. The Martian. I read the book first. Loved it. The Movie was just as good.

Q. If you could invite any three people to dinner (dead or alive), whom would you invite and why?

A. Elon Musk, Warren Buffett, and Gary Vaynerchuk. Why not? Great minds and great business sense.

Q. People would be surprised to know...

A. That I speak Russian and that I had to participate in a line up in a Russian jail. It's a long story.

Kinley Puzey is a recent addition to the RMGA Board and can be reached at Kinley.Puzey@davistech.edu. ■

Do You Consider Radiation in Your Installations?

— By Ned Hart, Fortis College

Basic Thermodynamics state that there are three ways in which heat is transferred:

Convection,
Conductive and
Radiation.

Forced Air Heating Systems

using a natural gas furnace is a form of Convection heating, the most common heating method in North America.

Conductive heating is limited to only one realistic heating method and that is an electric blanket.

Radiation

however, includes in-floor / in-wall / in-ceiling coils and radiators (but not baseboard heaters which are actually convective heaters) and is vastly different from convective heat in that everything in the house: the furniture, the people, and the structure itself are directly warmed from the radiant energy being emitted from the heated tubing in the structure. And consequently, room temperatures are generally lowered a minimum of five degrees to compensate for the radiative heating effect upon the occupants.

Often overlooked in a forced air home is the influence of radiant heat in home comfort. A notable

experiment was performed using a special room where the air within the room could be heated or cooled separately from the walls of the room. In the first test,



NED HART & STUDENTS



subjects (dressed in street clothing) were placed in the room where the air was 70 degrees but the walls were zero degrees. To a person, the test subjects felt uncomfortable. In the second test, the air was chilled to zero degrees but the walls were heated to 70 degrees, and although they could see their breath, the test subjects reported the room felt tolerably warm even under those conditions.

Most people have had the experience of standing in line at a large home supply store in front of an open overhead door with outside air temperatures below freezing, yet they

felt warm. The reason was that a radiant heater overhead was keeping everyone warm. Although the air is cold, the radiant energy from the heater was directly warming the customers, NOT the air.

A house without heat in winter (such as a unoccupied vacation home) that is suddenly brought back up to

temperature will not feel

comfortable to the occupants for several days. This

is due to the fact that the walls are not radiating any significant heat to the occupants until they reach normal room temperature. **Cooling**

down a home at night by setting-

back the thermostat does save energy, but the consequence is that the home will not feel comfortable for several hours until the walls warm back up to room temperature.

Solar homes are generally quite comfortable because the house is kept at the same temperature day and night regardless of the presence of occupants (the energy to heat the home is free).

It is always good to remember that a major portion of our “comfort” heat comes from radiation, and not just convection. ■



PIPELINE

FUEL FOR YOUR BUSINESS

153 SOUTH 900 EAST, #3
SALT LAKE CITY, UT 84102

RETURN SERVICE REQUESTED



*Every
Great Journey
Requires
a Plan*

FEDERATED LIFE®

No matter where you are on your journey, business succession planning can help. To learn more, contact your local marketing representative.

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