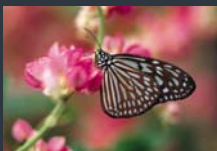




Baltimore County DPW Contract Renewed

Kibart was notified in March, by the Baltimore County Department of Public Works, that their original two year contract for On-Call Mechanical/Electrical Design Services had been renewed in the amount of \$750,000 to perform various projects or tasks on an on-call basis, including reports, studies, preliminary design, schematic design, design development, construction documents, cost estimates, construction administration and other assistance in the County's public works buildings. Kibart has provided engineering services directly for Baltimore County Public Works on over 50 projects since 1997 and we look forward to continuing this relationship!



The Paul H. Nitze
School of Advanced
International Studies
Washington, D.C.

this issue

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Washington DC—here we come!

Kibart is pleased to announce that we are actively working on the HVAC systemic renovations to the Nitze and Rome Buildings at the Johns Hopkins University School for Advanced International Studies (SAIS) in Washington, DC.

SAIS is a leading graduate school of international affairs, educating students for careers in government, business, journalism, international organizations, academia and nonprofits. Founded in 1943 by statesmen Paul Nitze and Christian Herter, SAIS has been a part of The Johns Hopkins University since 1950.

Design features of this project will include central chiller system replacement, renovation of the boiler plants, air handling and terminal HVAC system replacement, life safety upgrades, classroom technology upgrades and roof replacement, etc.

This project is for a \$5+ million HVAC systemic type phased renovation of these two cornerstone buildings on the SAIS campus. The design for this project will be completed in late Summer of 2009, and construction will take place over a one to two year period. Kibart's design will be phased such that each building will remain open throughout the entire renovation process.

Our team for this project includes:

- The Johns Hopkins University and SAIS - Owner;
- Bowie Gridley Architects - Architect;
- Faisant Associates, Inc. - Structural Engineers;
- Technology Design Resources, LLC - Audio/Visual Consultant; and
- Whiting Turner Contracting - Construction Manager.

Kibart looks forward to this awesome opportunity!

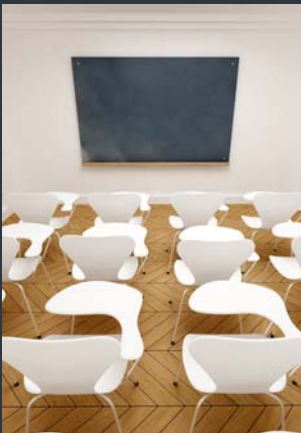


Highlights from Psychrometric

"Eddie U" Training Class

With today's modern software programs, too many design engineers merely use computer programs as a crutch and never truly understand what's behind the numbers. In order to be a good engineer, we must understand and use the basic engineering concepts and fundamentals to guarantee that we are applying them correctly.

The ASHRAE Psychrometric table is one of the most fundamental and powerful tools in an HVAC engineer's arsenal and is the basis for all air distribution design concepts used by our industry.



Engineering 101

From our President, Ed Abbott

"A good engineer must routinely roll-up his/her sleeves, pull out a psych chart and do the math by hand in order to really know that what they are designing will work as intended."

The following information touches base on some of the ideas addressed in one of our recent training sessions:

BTUH = the energy required to raise 1 lb of water by one degree Fahrenheit.

Sensible Heating or Cooling of Air: $BTUH = CFM \times 1.08 \times \Delta T$

Where does the 1.08 constant come from? Further breakdown concludes the following:
 $BTUH = CFM \times 0.24 \times 4.5 \times \Delta T$, where 0.24 = specific heat of air,
and $4.5 = 60 \text{ min} \div 13.34 \text{ lb of air per cu.ft}$, so the real breakdown is:

$$BTUH = \frac{\text{Ft}^3}{\text{Min}} \times 0.24 \times \frac{60 \text{ min}}{\text{Hr}} \times \frac{13.34 \text{ lb}}{\text{Ft}^3} \times \Delta T$$

Relative Humidity = Amount of moisture measured in the air at a given temperature as compared to the maximum amount of moisture the air can hold in that same temperature.

For air distribution systems, we weigh moisture in terms of grains, where
7,000 grains = 1 lb.

Interesting Fact: RH can change even when the amount of moisture in the air does not change.

Example from the Psych Chart:

70°F and 56 grains of moisture = 50 % RH

60°F and 56 grains of moisture = 70 % RH

So lowering the dry bulb temperature by 10°F and not removing any moisture from the air, the RH went up from 50 % RH to 70% RH. It's all RELATIVE!

Another Interesting Fact:

There is no such thing as a typical muggy day in Baltimore being 90°F and 100% relative humidity. In fact, that condition has never occurred and will never occur. The highest level of relative humidity on the hottest and most humid ASHRAE design day of 95°F is 50% RH.

Not your Father's Generator

- By Dave Fuller

The design and implementation for emergency generators in Maryland has become more complicated over the years, due to greater restrictions on exhaust emissions. Aside from the technical and code requirements for generator designs, engineers now need to assist the owner in navigating the maze of required waivers and/or permits, similar to those required for boilers.



In Maryland, for any generator that exceeds a rated 500 BHP (373kW), the State of MD requires the following:

- For typical standby applications, the engineer must secure a letter from the serving utility stating that no "interconnection agreement" is required.
- The Engineer then must complete the technical data sections on the "Certificate for Public Convenience and Necessity (CPNC)" waiver form from the MD Public Service Commission.
- The generator owner must complete the waiver application and submit to the PSC along with a \$500 filing fee and the utility company letter. Securing this waiver approval typically takes up to 2 months.

A "Permit to Construct" is then required to be filed with the MD Dept of the Environment (MDE) by the contractor, after the actual generator manufacturer, model number and emissions information are known. Then the State:

- Requires a second \$500 permit fee be paid to MDE.
- Requires the PSC Waiver approval or MDE will not even review the application.
- May take another month for approval.

The above process applies only to those systems equal or greater to the 373kW rating, thus smaller generators are exempt from this process. Also, generators used for peak shaving, utility paralleling, and other atypical uses require a different approach with more restrictions on emissions, etc. It is important for clients and engineers to know of this process, particularly with pre-purchase and fast track projects.

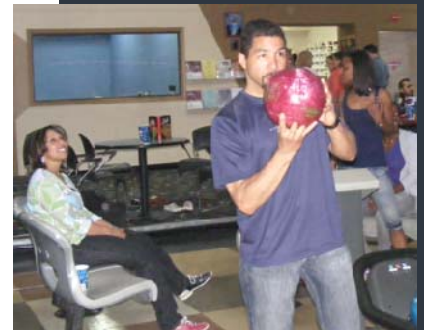
Kibart Tech Korner

(Continued)



Kibart's Annual Family Bowling Night

Employees and family members had a great time April 18th bowling and simply having fun!!





Kibart Spot Light Award is Presented to...

We are proud to announce that the Spot Light Winner is...

Kathy Liberatore.

When given the opportunity to take on extra work and become the Company's Office Manager, Kathy willingly stepped-up, took on the extra duties and still performed all of her other duties with drive and initiative.



Thank you Kathy for all your hard work and dedication to making Kibart a growing and successful business!!

Thanks to Kathy's knowledge and experience, she has successfully developed quality marketing packages, which have helped us win project awards such as the Baltimore County and SAIS announcements on the front page of this newsletter.

Kathy is an active member of the Sponsorship Committee for the Society for Marketing Professionals—Chesapeake Chapter, performing such duties as contacting potential sponsors, sending out sponsorship packages, tracking renewals, etc.

Being responsible for preparation and delivery of all marketing packages and fee proposals, Kathy is often given very little advanced notice that a proposal needs to be prepared and delivered. Consequently, she routinely has to stay late, arrive early, or work over the weekend. When asked if she minds making those kind of sacrifices, her patented answer is "**No, its my job, I love it.**"

As a result of this achievement, Kathy will receive a trophy, a Kibart shirt, and a gift card.



On the personal side, Kathy's husband, Ronnie, has recently retired from the Social Security Administration, her mother Marie, will be 92 years young in May and remains in relatively good health, and her two children Ryan (wife Carmen) and Lisa (husband Craig) have made her the proud grandmom of two grandchildren, Dylan and Kylie.

Special thanks to those who volunteered to be a part of Kibart's Spotlight Award Committee.



Promoted to Project Manager

Kibart is pleased to announce the promotion of Steve Brzezinski to Mechanical Project Manager.

Steve first began working at Kibart in Farshad's group as a new graduate from UMBC in 2004.

The HVAC industry immediately seemed to be a natural fit for Steve. His grasp of design issues, diligence, work ethic, spirit of cooperation and desire to learn became evident from the onset. Since then he became LEED AP Certified in 2005, he attained his EIT and was promoted from Designer to Project Engineer in 2005, was Kibart's first "Spotlight Award Winner" in 2007, was promoted to Senior Project Engineer in 2008, obtained his PE in January of 2009 and now has been elevated to Mechanical Project Manager.

Additionally, Steve has been the Design Engineer on some of Kibart's most prominent projects, including BCCC Life Science Institute, UMB Institute for Genome Sciences, Red Pump Elementary School, Paragon Bioservices Inc., and our first LEED certified project - UMB BioPark Building 2.

Congratulations to Steve and keep up the good work!



Kibart Special Recognitions



Receives LEED AP Certification

Congratulations to Kevin Matthai who recently received his LEED AP Certification. Congratulations to Kevin!!!

Kibart Family News

The Ford Family News:

Mike's daughter Catherine was just hired by the State Highway Administration as an Environmental Analyst. Billy teaches and coaches high school softball and basketball teams at the Harbour School, a school specializing in the education of kids with learning disabilities such as autism. Richie is surviving at Stevenson University, and was just named as a Captain of the Men's Lacrosse Team and voted as a Preseason 1st Team All American Attackman. Youngest son Mike is studying Environmental Science and Marine Safety at The Massachusetts Maritime Academy planning a career in the United States Coast Guard as a member of a Search and Rescue Team.



Kibart's Newest Addition:

Ethan Jaden Graves born on January 16, 7 lbs 11 oz. , and 19.5" long to Rashel & Emagii Graves.

Kibart Wedding News:

Matt Armstrong and Kristin Kiehne were married on 4/23/09 at Lido Beach in Florida (near Sarasota).

Congratulations
Matt and Kristin!!!

Mike's Field Notes

Did you know?

The price of copper is dropping; the price of pvc and cpvc is going up.

The New Magnetic Bearing Compressors utilized in one Manufacturers Chillers are shipping seven (7) to eight (8) MONTHS after approval. The current economic slowdown has caused factories to cut production. Almost all manufactured equipment is taking 4-6 weeks longer than normal to ship. Plan ahead.

Our implementation of AutoCAD MEP Suite and REVIT is progressing on schedule. We have now completed several sample projects.



This Month's thought:

Eloquence consists in making the speech comprehensible to the multitude and agreeable to the learned.



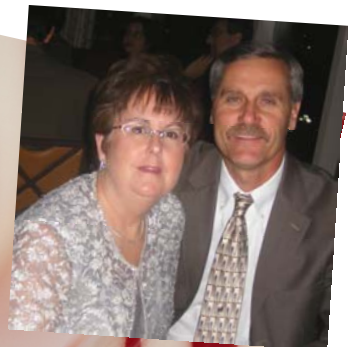
Kibart Christmas



Kibart changed things up this past December by hosting employees and spouses for a Holiday Party at the Renaissance Baltimore Harborplace Hotel for dinner and dancing. Everyone had a great time and a big thank you to everyone who helped make this event a huge success!

Extra special thank you to Kristine and Joe who co-chaired this event.

Great Job!



Food, Fun and Friends... it doesn't get much better then that!



Kibart Gift Giving

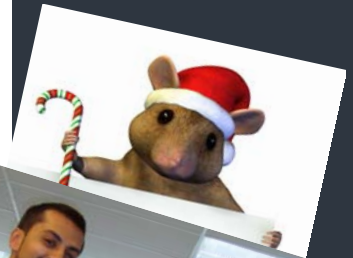


Kibart got into the spirit of holiday gift giving with their annual Secret Santa luncheon! Employees had a great lunch and then thoroughly enjoyed themselves opening presents from their Secret Santa.

New this year, employees adopted three families from Villa Maria and hosted an angel tree. Employees removed angels from the Kibart Christmas Tree (that contained gift suggestions for specific family members) and the turn out was SPECTACULAR (check out the picture). Kibartee Christina Gedeon pushed us right over the top with huge boxes of food and necessity items from Wegmans! Great job everyone!!



Leave it to Matt O to bring down the house with his gift of "drumsticks" for our resident drummer, Jeff! The crowd went wild!



Kibart Anniversaries

Harvey Wofford 12 years
Jeffrey Bauer, Jr. 1 year
Matthew Armstrong 1 year
Kevin Matthal 3 years
Christina Gedeon 9 years
Chris Pettman 5 years
Emagii Graves 2 years
Kevin Cullison 9 years
Nadine Hawkins 22 years
Bryan Taylor 1 year
David Fuller 17 years
Toni Watson 8 years
Karen Brown 2 years
Willie San Juan 5 years



Kibart's Mission Statement:

As Maryland's most innovative team of mechanical / electrical engineers, we excel at providing quality driven master plan studies, design documents, construction administration, commissioning and LEED consulting. We deliver trusted design solutions that work.

Kibart, Inc.

901 Dulaney Valley Road, Suite 301
Towson, MD 21204
Phone: 410-494-1111 / Fax: 410-494-1112
www.kibart.com

Our Customers:

Our expertise is best suited for the following markets:

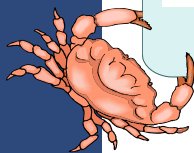
- Education (K-12 schools and universities)
- Technology (data centers, scientific R&D, pharmaceutical)
- Retirement (retirement communities, assisted living)
- Corporate (commercial buildings, corporate centers)
- Healthcare (hospitals, doctor's offices, outpatient suites)

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Kibart Employee Upcoming Events



**Kibart's Annual
Employee Crab
Feast / Picnic
September 12th**



Kibart Birthdays

Steve Brzezinski	01/01
David Fuller	01/10
Christina Gedeon	01/21
Bryan Taylor	02/05
Toni Watson	02/19
Matthew Armstrong	03/12
Travis Polletto	03/15
Joseph Del Pilar	03/16
Karen Brown	03/21
Melvin Stimmel	03/25
Farshad Kassiri	04/27



**We're On The Web
Kibart.com**