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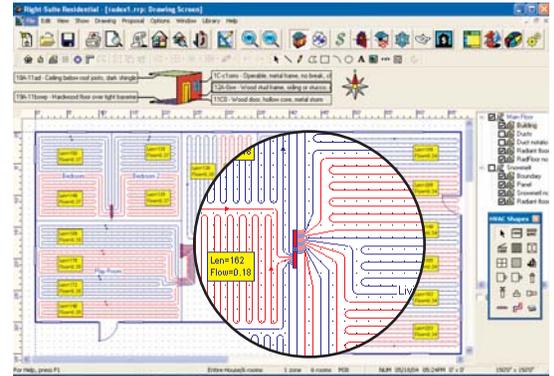
SUPERLATIVE TESTING FOR AWARD WINNING RIGHT-SUITE

Do you go berserk when your software crashes? We do. Everyone does. Losing work is painful and expensive. Wrightsoft wants you to sleep soundly, and we need to know that our software is the best. So, whether it's to correct a reported bug in the program or to make enhancements to existing modules, we made a major commitment to make the quality, reliability and integrity of Right-Suite to be the highest in our industry.

Fixing software seems easy. You report a bug. We fix it. Then we release a new version. Everything's fine. Except… How can we be sure? How can you be sure?

To fully test Right-Suite, thousands of tests are run. In order to save time we began a project that automatically tests Right-Suite, using special software designed to test other software. How does that work? We subject Right-Suite to simulated usage, and then we push it to its limits.

Wrightsoft's product test chambers are dedicated computers that simultaneously run the test software and Right-Suite. The test software sends mouse clicks and keystrokes into Right-Suite so fast that the screen becomes a blur. It can do a multi-zone, thirty room house in minutes. Testers combine the sequence of clicks and keystrokes into a script, which looks a lot like source code for software. The average script typically checks over 10,000 variables and compares roughly 40 screens to determine any

changes from the previous version. Totaling over one million tests for the entire testing process, each individual script amazingly takes only minutes to run.

In order to meet your needs, each time that a new service pack is released, multiple tests are run that cover the following areas.

Crash Avoidance: High-speed simulation of extreme user inputs in an attempt to flush out unexpected program weaknesses or system crashes.

Version Comparison: Compares the countless variables, screen shots, etc. from the previous version in order to determine and reconcile any differences.

Multiple Scenarios: Numerous different building scenarios with different input data are reviewed, comparing all potential combinations.

Functionality: Conducted manually and from the user's point of view, this test is performed to determine the program's relevance and significance to the customer.

Repetitive Test: Continuous testing, similar to a multiple scenario test, where repetitive tasks are performed to determine consistency of the program and whether or not the software stalls or crashes.

Over the last three years, our two full-time QA experts have built over 130 scripts, together taking over 8 hours to run, assuming no bugs are found.

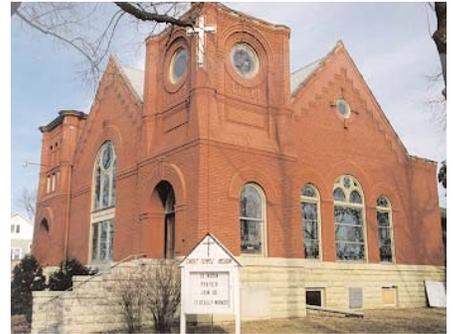## RIGHT-SUITE COMMERCIAL ASSISTS THE HVAC PROFESSIONALS OF TOMORROW, TODAY!

Recently Wrightsoft has been interviewing several schools and universities to better understand how our software can assist in teaching the HVAC professionals of tomorrow, today. From our research, a recent interview stood out from the rest by offering a slightly different approach.

Timothy G. Wentz, P.E. is an associate professor within the Construction Management Department at the University of Nebraska. After 19 years in the commercial HVAC industry, Professor Wentz incorporates real world experience within an applications-based course. For his work in education, he has received several awards. Among these include, the E.K. Campbell Award of Merit for outstanding service and achievement in teaching, sponsored by ASHRAE, and the Mechanical Contractors Association of America (MCAA) has awarded Professor Wentz the "Educator of the Year" award on two separate occasions.

So what makes his teaching style different from the rest? Professor Wentz bases the entire semester around an existing building as the class project. "Typically I have the owners of the building come in to meet with the students to determine their needs and thoughts," stated Professor Wentz. After understanding all the requirements, budget considerations, and any other necessary details provided by the building owners, the students are given full control as to how they plan to approach the project. "Throughout the semester we study all facets of mechanical systems: HVAC/R, fire sprinkler, temperature control, plumbing, etc. Then the students learn how to apply this knowledge

University of Nebraska's Construction Management project for 2002.

University of Nebraska campus.

toward the semester project," said Professor Wentz. After teaching his students the fundamentals and how to perform load calculations by hand, Professor Wentz then shows them how to do the same calculations on the computer by using Right-Suite Commercial.

Professor Wentz' popular class has since become cross-listed with the architecture college. "I divide the class into four person teams at the beginning of the semester, 2 construction management students and 2 architecture students. Then they have to come to a conclusion as to how to meet the owners' needs. Based on those recommendations, the teams have to create and present to the owner, a proposal that will most efficiently heat and cool the building," stated Professor Wentz. Throughout this process many questions will arise within the areas of technology, cost, aesthetics, and energy conservation, which is a requirement for the assignment. "It really helps to have a wide diversity of thought, with the engineering college and the architecture college sitting in the same room trying to solve the same problems." Professor Wentz further explained, "that's where Right-Suite is so convenient for the students, they can make a decision about a wall section, plug in the information and get an instant answer. It helps the construction management students make management decisions, and architecture students make design decisions."

According to Professor Wentz, the students can benefit by using Right-Suite in a couple of different ways. "First of all, it's a very popular program within the industry that students will now be fluent in using. Secondly, students learn how to use these types of programs in the right context. It's not a fancy calculator; Right-Suite Commercial is a management tool. It allows them to make very good decisions that would normally be very difficult to make. Computer programs can be a part of the critical thinking process, which is how we believe Right-Suite contributes to our classes."

Upon completion of this program, the Construction Management students will receive a Bachelor of Science degree, but the experience from the class gives them so much more. In past years, recommendations made by the students have been incorporated into the owner's actual development plans. Each year this class is taught to over 100 students, and for the past 10 years, the University of Nebraska has had full placement for the

The Parish Building in Nebraska was the Construction Management's project for 2003.

Construction Management students. With a thorough understanding of the field, each student after graduating goes into management level positions throughout the HVAC industry. Considering all of this, it is understandable why Professor Wentz has received such accolades for his teaching and why we thought this program was so exceptional. Keep up the good work, Tim!

Automated Radiant Loop ...*(continued from page 1)*

Interactive in its design, this new radiant loop product can adjust its layout through defining preferences and by using the drag and drop method. You'll be able to adjust your desired radiant heating system based on many factors, such as configuration of the rooms or building, manifold piping connections, loop patterns and spacing. Then add product from recognized radiant panel component manufacturers or customize your own preference collection library, which can be saved globally for ease of retrieval on future projects.

A quick quote section has also been added to make straightforward estimations without having to draw the floor plan or create load calculations. You'll be able to save time by using these basic assumptions already in place to produce a quick quote. This will also include a basic overview of needed materials and associated costs, making it an ideal quick estimator before producing a more precise quote.

This radiant loop product produces a more accurate depiction of a radiant heating diagram through expert design and our commitment to increasing your success. For further details on this product, including release date and pricing, please call Wrightsoft Sales at **800-225-8697**.

NETWORK VERSIONS NOW AVAILABLE

Depending upon the structure of your classroom or office, Wrightsoft now offers network versions of the same award-winning software. Network versions offer many benefits for many facilities.

- Centralize the management of multiple licensed copies or "seats" all on one server, eliminating the need for separate license installations on workstations. Therefore, should you need to move to a different location, as long as you remain connected to the server, you will have access to Right-Suite.

- Centralize your projects together in a common location for ease of retrieval.

- Share the same templates and sample cases to guarantee consistency and administrative control over the Right-Suite database.

800-225-8697

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UPCOMING TRAININGS

Wrightsoft will be conducting trainings in the following states.

For a complete list of dates or to learn more, please call our sales department at 800-225-8697 or visit us at **www.wrightsoft.com.**

California
Florida
Massachusetts
Michigan
Ohio
Nevada
New Jersey
Pennsylvania
Washington

Superlative Testing...(continued from page 1)

Each new bug causes them to go back and figure out how to test it to be sure that it doesn't return. In their spare time, they write new scripts for new features. Their lives revolve around trying to make certain that you don't see a problem.

So who are these guys? What kind of person wants to learn this area and figure out how to break a program? Our first QA Expert, Sergei Lushpenko has a PhD, started with Wrightsoft in 2000, and has been using computers to solve engineering problems for more than 30 years. Sergei's background is mostly mechanical engineering and he's an expert in thermal modeling on computers. Sergei has generated thousands of lines of test programs, and is the author of a book on Thermal Properties (like U values, etc) of Solid Materials. Sergei's fellow QA Expert, Stanislav Pagur has a master's degree in Chemical Engineering, and spent his first years working in the field as a field inspector, performing detailed tests and inspections on chemical plants, laboratories and test systems. He got interested in HVAC in his field work, and when he came to work for Wrightsoft, he enthusiastically combined his engineering background with testing, and has become adept at thinking up torture tests for Right-Suite. Stas and Sergei are considered two of the world's best Right-Suite users. Or maybe we should say that they are the world's worst Right-Suite users.

Stas and Sergei live and work in the former USSR, in the Ukrainian city of Kharkov and after three years,

Wrightsoft's QA Eperts: Stanislav Pagur (above) Sergei Lushpenko (below).

they have become part of our company family. Best of all, Kharkov is 7 hours ahead of us. You can rest easily knowing that while you and I are sleeping, Stas and Sergei are hard at work beating on our software.

Our QA project has been a real success, allowing our tech support to focus on questions about how to use Right-Suite. Wrightsoft will continue to dedicate our 2 full-time QA experts to making Right-Suite the world's best software!

Look for our Summer Special Coming Soon!

Watch for a special offer being mailed to your attention in July, good for the entire summer. For more information, please contact Wrightsoft Sales at 800-225-8697...You won't want to miss this deal!!

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