



# The **EMA** Letter

Information and Helpful Hints for School Districts  
and the Architects who Serve Them

## EMA Celebrates 35 Years Providing Engineering Expertise for Educational Facilities

**Estes, McClure & Associates, Inc. celebrates 35 years** as a leader in engineering for educational facilities. During this time **EMA** has worked in **more than half of the Texas school districts** providing energy audits, master planning, and engineering.

Jim Estes started the engineering firm, Estes & Associates, in 1974 with only a handful of employees. **EMA's** Chief Executive Officer James McClure, who joined Estes Engineering in 1982, said, "We were one of the first engineering firms to focus on energy efficient solutions for schools. We would take the electric bills from the previous year to show the energy savings to prospective new clients. It made an impression!" Estes & Associates evolved into Estes, McClure & Associates in 1982.

Today **EMA** still evaluates energy usage, costs and prioritizes energy master plans for schools. The Texas State Energy Conservation Office (SECO) contracts with **EMA** to conduct on-site energy audits. **EMA** President Mike Clendenin said, "**We have conducted over 2500 energy audits saving millions of dollars for Texas schools.**"

Clendenin continued by saying, "Successfully working with owners of an educational facility requires more than an understanding of schematics and blueprints. It also takes an understanding of the processes and approval systems that are required in the educational arena. In the role of prime professional, **EMA** partners with the school owners from concept to completion of building systems (HVAC replacements, electrical upgrades, communications systems, etc.) projects." **EMA** also provides needs assessment planning, project coordination and management, and construction administration.

**EMA** has a solid track record with many architectural firms, some with whom we have worked for more than 20 years. **EMA** partners with the architect from planning through the construction phase providing mechanical, electrical, and plumbing engineering expertise and energy efficient solutions. Clendenin notes, "**EMA** strives to get it right the first time. We designed a 10-point checklist in our quality control department to improve accuracy. Plus, we have an architect on staff who reviews the MEP for all outgoing projects."

Since the very first educational engineering project, **EMA has worked with more than 575 Texas school districts and has served 47 colleges and universities.** Our client base, while primarily in Texas, extends to other states as well.



Pictured: Mike Clendenin, President; Robert E. (Ed) Cliver, Sr. Vice-President; James McClure, Chief Executive Officer; Gary Bristow, Sr. Vice-President

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### Providing Solutions That Deliver Results

### Contact Us

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## ASHRAE President Visits East Texas



**Mike Clendenin, Ed Cliver, and James McClure** attended the March ASHRAE East Texas Chapter meeting in Tyler. Bill Harrison, President of ASHRAE (second from left), gave a presentation “Maintain to Sustain”, in which he discussed the operation and maintenance of systems in high performance buildings.

## CFB Kitchen Watchers Program a Success

A few years ago **Carrollton-Farmers Branch ISD** began the “**Kitchen Watchers**” program. **Victor Melton, Energy Manager**, met with kitchen personnel to discuss potential ways to save energy in school kitchens.

One of the big results of the program has been the addition of oven preheat times to recipe cards. Previously, ovens were turned on when kitchen employees arrived at work. Now, **ovens are left off until a short time before they are needed**, just enough to allow for preheating, which saves energy dollars.

### TEXAS ENERGY MANAGERS ASSOCIATION

For more information go to  
[www.texasema.org](http://www.texasema.org)

## Richardson ISD Saves \$853,000 on Energy



In 2005 EMA conducted an energy assessment at **Richardson ISD**. Of the district's 60-plus facilities, 12 were selected for site visits. During the walk-throughs,

low-cost and no-cost ways to save energy were identified. Retrofit projects, such as higher efficiency lighting in gyms and air conditioning were also recommended.

Many of the energy saving measures noted in the assessment report have been implemented by the district. These actions have resulted in energy and, therefore, dollar savings to RISD. From the 2003-2004 through the 2007-2008 school year, the 12 facilities visited **reduced electric consumption by a total of 7.2 million kwh. Total energy savings was more than \$853,000.** Building efficiencies, as measured by energy use index (EUI) fell from an average of 49,913 to 44,880 Btu/ft<sup>2</sup>-year during the same period.

### Reminder

#### Do's and Don'ts for Summer Break Savings

- Don't turn off air conditioning systems
- Do utilize setback temperatures and allow units to run for humidity control
- Do change EMCS settings to correspond with summer schedules
- Don't leave food in refrigerators. Empty and unplug them.
- Do turn off and unplug computers and other equipment that won't be used
- Do run fans and air conditioners to dry carpets after cleaning. It's not clean until it's dry.

**Engineering**  
Air conditioning  
Communications  
Controls  
Electrical  
Energy  
Lighting  
Mechanical  
Plumbing  
Technology

**Consulting**  
Communications  
Emergency power  
Energy  
Fire/Safety  
Lighting  
Master planning  
Media  
Research studies  
Sustainability  
Security  
Technology  
Workshops/Training

**School Experience**  
35 years service  
575 Texas ISDs  
47 colleges and universities  
Other schools throughout the country

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Engineering & Consulting  
Leadership

## Company Spotlight

- Congratulations to **Cammy Dingler** and **Matt Hensley**, both EMA employees, who got married earlier this month.
- Congratulations also to **Jared Plyler** who recently got married.