

From the (Guest) Editor

New Technologies and Programs that Help Lead the Way

I got a real kick out of Wayne's *From the Editor*, "***An Open Letter to Congress, DOE, and EPA***", in the Vol. 99, No. 1 (2002) issue of *Energy Engineering*. Unfortunately, I was not really surprised by the result—nothing. I firmly believe that the DOE Office of Energy Efficiency and Renewable Energy has several programs that offer significant public benefit. Unfortunately, I also know that the DOE program offices don't always know how to document or communicate these benefits. With this issue of *Energy Engineering*, I am doing my small part toward changing (at least some) of this.

This issue is dedicated to new and emerging energy-efficient technologies. Moreover, in this issue, two DOE programs are described, both of which seek to increase the speed at which new energy-efficient technologies receive widespread acceptance and adoption in the marketplace. The adjoining articles in this issue describe a few of the technologies that have some involvement with the DOE programs.

The first article describes the New Technology Demonstration Program in the Federal Energy Management Program Office. This program assesses new technologies for their potential application to federal facilities and develops materials used to educate federal facility and energy managers about the new technologies. The second article describes the Emerging Technologies Program in the DOE Building Program Office. (Forgive me if some of the program office names are incorrect, the DOE Office of Energy Efficiency and Renewable Energy is undergoing a major reorganization.) This program has been instrumental in creating the market pull responsible for the development of many new highly efficient technologies. I think it is important for the readers to become familiar with these two valuable DOE programs. Next are three articles, each describing technologies that have unrealized potential: magnetic-coupled adjustable speed drives; combined heat and power; and high-efficiency rooftop air conditioners.

No, Wayne hasn't retired, but he did sit back and give me the opportunity to develop this issue of *Energy Engineering* for you. (The last time I had this opportunity was Vol. 94, No. 6 in 1997. The theme was *New and Emerging Technologies*; notice I haven't strayed far.) There are a lot of new technologies that offer big promises in reducing costs and improving productivity. It is important that we keep up-to-date, educate ourselves, and review these new opportunities with a critical eye. So sit back, relax, and read this issue. Remember, this is training and professional development. Wayne will be back for the next issue.

Oh yes, and remember to upgrade your AEE membership and subscription to include the ***Cogeneration and Competitive Power Journal*** (another journal from the Association of Energy Engineers).

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