

Association of Energy Engineers
www.aetarheel.org



Association for Facilities Engineering
www.afechapter68.com

Capital  Chapter

HAPPY JUNE 2004

MEMBER NEEDS

Bill Gilbert, our esteemed Past-President, has been undergoing chemotherapy treatments. We would ask that you keep him in your thoughts as you would other cherished friends and associates. Our thoughts and prayers are with you Bill.

President's Latest Message

Please bring your ideas for upcoming meetings to share at our monthly meeting on June 14th. We'll discuss them informally.

Four scholarship applications were sent in to AEE national last month from NC A&T University. We hope to see one or more of the applicants receive \$500 towards their education.

I look forward to seeing you on June 14th.

Officers for 2004

| | | |
|-------------------------|--------------|--|
| Pres. | Jack | AJT05@doc.state.nc.us |
| V President | Darrel | darrel.l.hurlbut@jci.com |
| Secretary | Eric | eric_soderberg@ncsu.edu |
| Treas. & Memb. Progr. & | Bill | bgilbert@johnston.k12.nc.us |
| Scholar Chair | Walt | walterjohnston@mindspring.com |
| P President | Bill Gilbert | |

When: Monday, June 14, 6:00 pm
Where: Blue Ridge Ramada Inn
Who: Ralph Taylor,
Energy Manager
UNC – Chapel Hill
What: “Overview of the Strategic
Energy Plan for UNC –
CH”

Mr. Ralph Taylor, energy manager at University of North Carolina – Chapel Hill, will speak on energy efficiency programs and projects at the university. For the state's Utility Savings Initiative, UNC – CH has developed an energy plan to keep utility bills under control and help the state reach its goal of reducing energy use and costs. UNC – CH has been a leader in the USI efforts and has provided a model for other state facilities to follow.

Our last TARHEEL AEE Program Meeting :

SAVING ENERGY THRU NEW TECHNOLOGY
LOOKING AT HOW HYDRONIC FLOW BALANCE AND AUTOMATIC
OR MANUAL BALANCING AND VFD'S OR IMPELLER SIZING CAN
SAVE SIGNIFICANT ENERGY DOLLARS.

In hydronic heating and cooling systems, flow balance to within 10% of design flow rate is important, and required by the NC energy code. Zones getting more flow than required could cost owners in pumping energy, and might starve other zones in the system (causing inadequate heating or cooling). In this seminar, we looked at the importance of flow balance in detail, and reviewed the balancing devices that are available, including pump triple-duty valves, manual balance valves (e.g. circuit setters), and automatic balance valves. We'll also review pump impeller trimming and VFD possibilities. The speaker was Jamie Edmondson, with James M Pleasants Co serving the hydronics industry for 7 years. He earned BS degrees in Electrical Engineering and Computer Engineering from NC State University and all who attended thought the presentation was excellent.