



THE BOC Bulletin

WINTER/SPRING 2005

A Newsletter for BOC Graduates, Enrollees and their Employers

Raytheon BOC Training as Professional Development

Raytheon Company is a global presence whose reputation is synonymous with state-of-the-art technology and progressive thinking. The company's Space and Airborne Systems (Raytheon SAS) is headquartered in El Segundo, California and is a \$3 billion world leader in the development, production, and support of sensor and system solutions for ISR,



Headquarters of Raytheon's Space & Airborne Systems division in El Segundo, California.

Precision Engagement, Missile Defense, and self-protection markets worldwide through exceptional people and technology. This huge facility comprises 20+ buildings totaling over 3.5 million gross square feet of mixed use from office space to highly complex laboratory and cleanrooms. Operation and maintenance of these facilities is a formidable task.

You might think that a company whose products include such technology systems as the Global Hawk Integrated Sensor Suite, the ATFLIR Targeting Pod, and

AESA radar systems would already have highly efficient building maintenance procedures in place. You would be right.

So why then does Raytheon SAS, a technological and advanced systems powerhouse, encourage many of its engineering and maintenance employees to attend the BOC training classes?

Jon Zich, P.E., one of the Managers of Facilities and Maintenance Operations at the El Segundo site, sees the training as a valuable complement to the pool of knowledge for Raytheon's maintenance employees. "The broad spectrum of topics in the BOC training fills in the gaps for people and allows them to see themselves as a part of the whole facilities maintenance program – the context of their particular role," says Zich. "From a professional development and personal enrichment perspective, that understanding motivates people to do a better job."

*Continued on page 2. See **Raytheon**.*

ARTICLES

Raytheon Company	1-2
Flame Detectors for Commercial Heating Equipment.....	3, 4 & 5
Recent BOC Graduates	6-7
Equity Office Properties.....	8
BOC Continuing Education Opportunities.....	9
BOC Conferences & Symposiums / Certification Renewal Info	10
Flame Detectors Review Quiz.....	11
2005 Course Schedule & Information.....	12

Reminder:

2004 BOC Grads

By March 2006, You will need continuing ed credit to renew your Level certification. Level I renewal requires 5 hours annually and Level II requires 10 hours. See pages 9 & 10 in this newsletter.

Raytheon (Continued from page 1).

The training format constitutes eight class days – each day focusing on a specific aspect of building maintenance and management from HVAC systems to lighting to indoor air quality. “It’s not your typical seminar, where you just sit and listen,” according to Zich. “There are tests, homework and hands-on activities that connect the classroom to your own facility.”

While people have their various specialties, what the training offers them is a chance to broaden their perspective and to understand how these “specialty” areas all actually interact. “It gets everyone speaking the same language,” says Zich. “The underlying theme to BOC is the emphasis on managing energy consumption throughout the whole building system.”

“A lot of people have different strengths, but the BOC training allows them to see all sides of the picture.”

– Mike Fennell

For Mike Fennell, a maintenance manager at the El Segundo location, the training was a great opportunity to broaden his knowledge of building management. He believes that, “multi-tasking is the way of the future” in the field, where people will likely have a specialty, but will also have to be generalists. “A lot of people have different strengths, but the BOC training allows them to see all sides of the picture.”

Fennell sees the certification process as a good idea for both maintenance managers and technicians, spreading the knowledge so that they are all on the same page. “We’re gearing up to make some major changes and improvements in the facilities here. While someone might not be involved in a specific phase of the changes, it helps to understand how the parts affect the whole.”

As to the significance of obtaining certification and what it represents, Fennell believes, “I would hire

someone that is well-rounded, and the certification is a helpful indicator of that.”

Raytheon SAS has had thirty-three of its engineering and maintenance workers certified at BOC Level I with additional interest being expressed for the BOC Level II series, which focuses more on specific troubleshooting issues. Jon Zich sums it up this way, “It’s great information presented by exceptionally qualified and competent experts in their respective fields.”

Area utilities Southern California Edison and Southern California Gas Company have been sponsors and staunch supporters of the BOC program and encourage participation for all their business customers. Those customers who have sent employees through the BOC training have achieved average gas and electric energy savings of \$19,000 per year. As SoCal Gas’s Ronnie Paoletto, Market Advisor, sees it, “Customers who attend are far more likely to pursue the technical and financial support for energy-efficiency projects offered by their local utility. This benefits everyone and that is our goal.”

“Customers who attend are far more likely to pursue the technical and financial support for energy-efficiency projects offered by their local utility.

This benefits everyone and that is our goal.”

– Ronnie Paoletto

Savings for companies, personal and professional development for employees – BOC training is a winning combination.

Please note, SoCal Gas offers free Continuing Education classes at its Downey, CA location. For information, see their web site, referenced in this newsletter’s Continuing Education listings.

CONGRATULATIONS!

BOC graduate Ken Neubauer, Engineer II at Frances Haddon Morgan Center in Bremerton, WA, was among nine facilities professionals earning the coveted Washington State Governor’s Energy Efficiency Award. All award-winners were recognized for outstanding energy-related accomplishments during the past five years. The awards ceremony was held on December 21, 2004 in the Governor’s conference room in the newly reopened Washington Legislative Building. Neubauer is a 1999 graduate of the BOC program. His colleague and BOC attendee, Facilities Manager Bob Curtiss, was also recognized.

