

Free Educational Lighting Seminars

For PGE Commercial and Industrial Customers

New Trends in Lighting – LED vs. Incumbents

Interior application LEDs are looking to replace incumbent technologies such as incandescent and fluorescent. Which ones are ready now and which ones are not? Applications to be presented include downlights, track lighting, T8 replacements, freezer cases, and much more. Learn important facts about issues such as lamp life, efficiency, sustainability, cost, and color.

Advanced Technologies in Outdoor Lighting

LEDs are all the rage for outdoor lighting applications from streetlights to area lights. However, there are key outdoor lighting issues you must know about. What about lamp life, color temperature, light pollution, and glare? Is LED truly better? Should I buy LED fixtures now or wait? Could induction lamps be a better option? Find out the answers to these questions and much more.

These free half-day seminars will present practical lighting tips and strategies used by the presenter, Stan Walerczyk, an innovative lighting consultant and educator from California. Find out what works in the real world and separate facts from fiction.

Both seminars will feature tabletop exhibitors including local lighting trade allies.

These seminars will equip participants to better:

- Understand key differences between LEDs and incumbent technologies
- Appreciate the impact LEDs will have for future lighting applications
- Determine if the time is right to install LED lighting, and if so, which ones they should choose
- Maximize energy savings while improving lighting quality
- Learn which resources are available for further research and study

Who should attend?

This seminar is for management and staff of PGE commercial and industrial customers and members of the Salem Area Chamber or SEDCOR, who plan for facility retrofits, as well as those who operate and maintain existing lighting and control systems:

- Facility managers and operators
- Building owners and leasing agents
- Energy managers
- Maintenance managers



Instructor

Stan Walerczyk, CLEP, LC

Stan is principal of Lighting Wizards, an energy efficiency consulting firm. His 20 years experience includes retrofit contracting, third party review, consulting, design and research. He is an independent project manager for the California Lighting Technology Center's research for the California Energy Commission's PIER Program. He has been assisting on DOE research on spectrally enhanced lighting and is a member of the DOE CALiPER Guidance Committee. He has over 30 published articles and has presented over 500 seminars. He is a Certified Lighting Energy Professional as well as Lighting Certified.

Sept. 7 in Salem • Sept. 8 in Portland • Sept. 9 in Portland

Times and Locations

Sept. 7, 2010, Salem

New Trends in Lighting – LED vs. Incumbents

Chemeketa Center for Business & Industry

Sept. 8, 2010, Portland

New Trends in Lighting – LED vs. Incumbents

2 World Trade Center

Sept. 9, 2010, Portland

Advanced Technologies in Outdoor Lighting

2 World Trade Center

All are half-day seminars: 7:30 a.m. – 12:00 p.m.

Continental breakfast: 7:30 a.m.

Seminar: 7:50 a.m.

Cost

Free to PGE customers. Others are welcome based on availability of space and a small fee may apply.

Accreditation

- Chemeketa or Clackamas Community Colleges: 0.4 CEUs (continuing education units)
- IFMA: Qualifies for four CFM maintenance points
- BOMA: Certificate of Completion that can be used toward certification
- National Council on Qualifications for the Lighting Professions: 3 LEU's (lighting educational units)

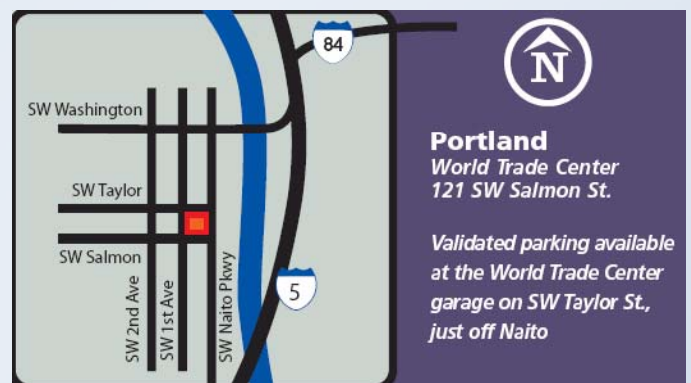
Registration

Please register as soon as possible. However, we can accommodate a few walk-in registrations.

To register, send an e-mail to PGE.Seminars@pgn.com or call **503-464-8020**.

More Educational Opportunities

For more information on additional classes for PGE business customers, visit our web site at PortlandGeneral.com/Classes. Classes may be added throughout the year. If you'd like to receive e-mail notices of new class offerings, e-mail PGE.Seminars@pgn.com.



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