

Registration Form

Please contact Chante' Formyduval toll-free at 1-877-887-6287 (phone) or (919) 546-5997 (fax). For more information about registration, e-mail her at chante.formyduval@pgnmail.com, or mail this completed registration form to: Chante' Formyduval, CP&L, 412 S. Wilmington St. OHS 10, Raleigh, N.C. 27601.

Name _____

Title _____

Company _____

Address _____

City, State, Zip _____

Work phone _____

Fax _____

E-mail _____

For more information, contact Bob Henderson at (919) 546-3129 or robert.henderson@pgnmail.com

Register Now! *The class size is limited so don't delay.*

Date: Thursday, Nov. 7, 2002
Time: 11 a.m. to 7 p.m. (dark)
Location: CP&L West Raleigh Operations Center
Seminar cost: \$100 (includes two meals and ordinance notebook)

Registration deadline is Wednesday, Oct. 23, 2002

Payment options: *(check one of the following)*

- Check – make check payable to CP&L
- Visa
- Mastercard
- American Express

Credit card number: _____

Expiration date: _____

Signature: _____

Hotel Information

The hotels listed below are located near the CP&L West Raleigh Operations Center. When registering, please indicate that you are participating in a CP&L seminar. Costs provided are estimates.

Hampton Inn Crabtree

\$74 single
6209 Glenwood Ave., Raleigh, N.C. 27612
(919) 782-1112 or (800) 426-7866
Contact: Pam Mallory, director of sales

Ramada Inn Crabtree

\$59 single, \$59 double
3920 Arrow Drive, I-440 Beltline and Highway 70 West
Raleigh, N.C. 27612
(919) 782-7525 or (800) 441-4712 (in state)

Clarion Hotel...formally

Four Points Sheraton Inn Raleigh
\$65 single
4501 Creedmoor Road, Raleigh, NC 27612
(919) 787-7111 (in-house reservation)
Contact: Christina Womeldorf

Contact information

Questions and comments about the seminar should be directed to:

Bob Henderson
Progress Energy
412 S. Wilmington St., OHS 10
Raleigh, NC 27601

www.cpl.com

Municipal Lighting Ordinance



Seminar Thursday, November 7, 2002

Municipal Lighting Ordinances

Cities and towns throughout the Carolinas are facing new outdoor lighting issues associated with business growth and prosperity. One effective way to provide a good business and habitable climate for everyone is through the writing and adoption of a municipal lighting ordinance.

The three most common issues associated with outdoor lighting are light trespass, determination of reasonable lighting levels and light pollution.

Light trespass is defined as unwanted light spilling across property lines, primarily from commercial to residential property. Glare is a type of light trespass. Determining the reasonable light level can vary depending on whether the surroundings are light or dark and the level of security required. Finally, light pollution is defined as light spilling up into the sky which makes the stars harder to see at night for astronomers and citizens.

CP&L recognizes that it can be difficult to craft a lighting ordinance that is reasonable and fair to all parties involved. Municipal officers, citizens, developers, astronomers, lighting vendors, electrical contractors, utilities and many others all have a stake in the outdoor lighting business. So how do you accomplish this balance? How much control is too much or too little?

Seminar Objective:

The objective of this seminar is to offer participants the necessary information and tools to understand and address outdoor lighting issues in a confident, efficient and effective manner.

Section One:

The first section of this one-day seminar will cover outdoor lighting basics, including light definitions and sources, fixtures and their application followed by a daytime tour of the CP&L outdoor lighting demonstration area. Foot-candle recommendations and light meters will be discussed, followed by a comparison of white versus yellow light and lighting design software.

Section Two:

The second section will focus upon identifying problems and solutions associated with light trespass, glare and light pollution. A sample ordinance template will be provided and reviewed in detail and wording options discussed. After dinner, the seminar will conclude with a nighttime demonstration of lighting principles and products discussed during the day with special focus on lighting ordinances.

Continuing Education Credits or Hours available to participants are: six N.C. Health, Safety and Welfare contact hours and six PDHs for N.C. Professional Engineers.

Who should attend?

- City planners and administrators
- City council members
- Town appearance planning committee members
- Astronomers
- Architects
- Landscape architects
- Engineers
- Building managers, contractors and developers
- Maintenance supervisors, electrical distributors
- Utility personnel
- Lighting personnel
- Interested citizens

Directions

From Raleigh:

Take the I-440 Beltline to the Highway 70 West / Glenwood Avenue exit. Follow Highway 70 West / Glenwood Avenue to Pinecrest Road. Turn right at the traffic light; the CP&L West Raleigh Operations Center will be on the left.

From RDU International Airport:

Follow airport signs to Highway 70 East to the traffic light at Pinecrest Road. Turn left; the CP&L West Raleigh Operations Center will be on the left.



Instructor:

Robert L. Henderson, LC, CLEP

Ordinance and Technical Support Specialist



Biography:

Bob Henderson earned his bachelor of science degree from the University of South Carolina. He joined CP&L and served in various field-marketing positions before beginning a 25-year specialization in lighting. Bob has served in various

capacities on the local, regional and North American levels with the Illumination Engineering Society of North America (IESNA). He has earned three Edwin F. Guth Awards of Merit for interior lighting and the Waterbury Award of Merit for his contribution to the lighting design at the North Carolina State Capitol. Bob is currently co-chairman of the IESNA Utility Special Interest Committee and a member of the IESNA Outdoor Lighting Environmental Committee and the Cutoff Criteria Committee. He is also serving on the NCQLP Test Committee for the Lighting Certified (LC) examination held each fall. Bob has also worked as a private lighting consultant and as a lighting sales agent representative. He holds the LC (Lighting Certified) and the CLEP (Certified Lighting Efficiency Professional) lighting credentials.