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President's Message

If we can believe the forecasters for 2010, we should see an improvement in our local economic indicators. Business First reported 13 businesses could bring 657 jobs to Louisville, Lowe Hotels may bring in 200 jobs, Mesa Foods plans to expand, White Energy Technology Riverport LLC is considering Louisville for a \$48.5 million alternative-fuel facility, RecoverCare plans 57 jobs, Sullivan University is growing, the new arena seems to have inspired new developments along downtown Main Street, and General Electric recently announced 430 jobs at Appliance Park to build a new line of energy-efficient washers and dryers. In 2011 GE plans to add another 400 jobs when they move production of a hybrid water heater from China. Can you believe that, we are getting something from China that no longer will be made in China. I don't know the latest with the Ford Motor Co., but I understand there is continued activity from that car manufacturer.

All that sounds good, but now we have to hope to see something in construction that will provide an economic improvement from our electrical industry.

Looking back at 2009 the Electrical Clearing House of Louisville can report it was a good year for our association. The average attendance at the monthly meetings was 137 for nine meetings. This was down slightly from 2008. The spring months of April and May saw the largest decline. After the winter storms in January and February, I suspect many members were ready for spring. I do thank the faithful members for their attendance and support during 2009.

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We would like to wish all of our current and past members a happy, healthy and prosperous New Year, from the Electrical Clearing House of Louisville's Executive Committee Members

To receive continuing education credit for attending ECHL meetings, you must *sign-in AND sign-out* at each meeting, and we must have the correct name and license number.

The WIRE is published by the Electrical Clearing House of Louisville each month, September thru May.

President
1st Vice-President
2nd Vice-President
Secretary
Treasurer
Writer / Editor

Richard Karlen
Ralph Hammer
Ken Bess
Marilyn Boudreaux
Alan Akin
Denise Arnold

**January 11th General Meeting
Hilton Garden Inn Louisville
Airport - 7:00 pm**

FYI, for all of our University of Louisville Fans, our meeting Monday evening will run parallel with the big game Louisville vs. Villanova at 7:00 PM at Freedom Hall. However, you must decide to turn left into the Hotel or continue on to the game. But what ever the decision is, come early.

Our January 11, 2010, meeting is being co-sponsored by A. L. Pickens and Richard Electric Supply. Richard Temblador, Director of MC^{AP} Cable Business Development, Electrical Division for Southwire Company and Mike Zedack, Sr. Fields Application Engineer, Electrical Division for Southwire are presenting the program on the latest wire and cable innovations and installation details that can increase safety, reduce costs, and increase productivity. Additionally those that attend will gain a better understanding of the NEC and UL requirements and the ground path performance requirement.

The program includes live Resistance and Ground Fault testing equipment that will be displayed to help reinforce important grounding and bonding concepts and requirements. The Resistance Test display unit is approx 12 feet long, 3 feet wide and 4 feet high and requires a 120v, 20 amp outlet. The Ground fault test unit display is 12 feet long by 4 feet wide by 8 feet tall with a control unit that is 3 feet by 4 feet by 4 feet tall.

We encourage you to attend it will be a very informative, hands on program. See you there.

**Deadline for Scholarship
applications is
February 8, 2010**

Useful WEB Links

State's Web Site - Enter your license number (me1234, ee1234, or ce1234) check your hours
https://hbc.ky.gov/licensing/electrical/license_lookup.asp

Louisville Metro—Permits

<http://www.louisvilleky.gov/ipl/development/ePermitSearch.htm>

ECHL email address:

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MarBoo1253@att.net

Continuing Education Courses

If you need continuing education hours outside of the monthly ECHL meetings:

LEJATC (3 CEU Hrs) 581-9210

ME & EE Classes

Jan 09 (Saturday) 8:00 am till 11:00 am
Jan 12 (Tuesday) 6:00 pm till 09:00 pm
Jan 16 (Saturday) 8:00 am till 11:00 am
Jan 19 (Tuesday) 6:00 pm till 09:00 pm
Jan 26 (Tuesday) 6:00 pm till 09:00 pm
Feb 06 (Saturday) 8:00 am till 11:00 am
Feb 09 (Tuesday) 6:00 pm till 09:00 pm

IEC (6 CEU Hrs) 493-1590

ME & EE Class

Jan 09 (Saturday) 8:00 am till 2:00 pm
Feb 13 (Saturday) 8:00 am till 2:00 pm
Mar 13 (Saturday) 8:00 am till 2:00 pm

CE Class

Mar 19 ((Friday) 8:00 am till 2:00 pm

December Code Answers

1) C 2) A 3) A 4) A 5) C 6) C

President's Message Cont'd

A special thanks goes to my fellow officers, Ralph Hammer, Ken Bess, Marilyn Boudreaux, Alan Akin and the Executive Committee members: Denise Arnold, Jamie Archer, Joe Booker, Kit Caye, Troy Crawford, Jim Holderman, Tom McKinney, Mike Smith, Denis Steier, Scott Stroder, Jeff Weyhing, and Steve Willinghurst for their continued support during the year. Laura Peyton, who left the committee in November, also received a thank you.

During 2009 we had great programs and I am most thankful for the individuals and the companies that provided speakers for the meetings. In January we had members of the Code Panel: moderator Dennis Steier and panel members Ben Kingren, Joe Booker and Tom McKinney. The February meeting was sponsored by L. P. Chick Co., Inc., with Greg Chick, Jeff Heimer and Keith Kazunas and Jim Kane, Regional Sales Manager of the Great Lakes Area, ERICO, Inc. from Cleveland, Ohio. The program for March featured Alan Manche, P.E., Director of Industry Standards with Schneider Electric/Square D. Company, Lexington, KY.

In April, Pamela Steiger, False Alarm Administrator from Metro Louisville Police Department reported on the Metro False Alarm Reduction Program and Joe Booker, Education and Safety Director, Independent Electrical Contractors Association of Kentucky and Southern Indiana, presented a program entitled "2005/2009 National Electrical Code Conductor Calculations". May was Steve Willinghurst, Director of Education & Training, Louisville Electrical JATC / IBEW Local 369, presenting a program entitled "Significant Changes to the NFPA 70E, *Standard for Electrical Safety in the Workplace*, 2009 Edition".

Robert "Bob" Pemberton, EPE Solution, a manufacture representative for Salisbury in Kentucky and Tennessee, started the 2009-2010 meeting session with a program entitled "Introduction to Arc Flash & Required Personal Protection Equipment (PPE)". In October, Dennis Steier, Moderator for the Code Panel discussion, introduced panel members, Joe Booker, IEC Safety and Training Director,

President's Message Cont'd

Tom McKinney, Tri-County Inspections, and Ralph Hammer, retired Electrical Inspector Louisville/Jefferson County Electrical Inspections Dept with a discussion on the changes that appear in the 2009 NEC.

In November, David Bredhold, Application Engineer, EATON Cutler-Hammer presented a program entitled "Load Centers, Panel Boards, Switchboards, and Switchgears and when to use each type as well as code consideration when installing", and Steve Jones, OSH Senior Safety Consultant completed the year with a program entitled "Common Electrical Violations found in OSHA Citations". If I failed to mention anyone, I do apologize.

Mark you calendar for 2010 the second Monday of the month, except June—August and plan to attend the monthly meetings. We will be keeping the lights on for you.

Donald Shelton, Former City of Louisville Electrical Inspector, Passed Away

Don Shelton, 77, a retired electrical inspector for the City of Louisville, a Navy veteran of the Korean conflict, FOP Lodge 25, and a member of Highview Baptist Church died December 20th.

He was an electrician, member of IBEW Local No. 369, served on the board of directors for the Western Section, International Association of Electrical Inspectors, Electrical Clearing House of Louisville and a former member of the Electrical Advisory Committee for the Commonwealth of Kentucky.

He is survived by his wife of 56 years, the former Dorothy R. Stallings; children Timothy Donald Shelton, Joyce LaJean Shelton and grandchildren and great-grandchildren.

Burial was at Evergreen Cemetery with a military service.

ECHL's Upcoming Programs/Events

February 3, 4, & 5, - I.A.E.I Winter Meeting—Holiday Inn—Hurstbourne

February 11— George Pate, Plan Review Sup for Codes & Requirements, Metro Louisville

TOPIC—Emergency Lighting, Exit Signs , & Other Items of Interest
Also — Election of Officers

March 11—Open

Recommendations for Class Content is welcome.

January Code Questions

A 1 1/2" conduit 36: in length contains seven #8 THW current-carrying conductors, what is the ampacity of each conductor?

- (a) 50a (b) 40a (c) 35a (d) 30a

What is the diameter in inches for a #8 bare aluminum compact conductor?

- (a) 0.013 (b) 0.017 (c) 0.146 (d) 0.134

What is the ampacity of a 1/2" X 4" copper bus bar?

- (a) 1000a (b) 2000a (c) 2800a (d) 3000a

What is the demand for 40—12 kw ranges in an apartment complex?

- (a) 105.6 kw (b) 480 kw (c) 55 kw (d) 12.1 kw

Without exceeding the Code, what maximum size running overload protection is needed for a 1 hp, 230v, single-phase motor with a marked service factor of 1.15 and a marked temperature rise of 46 degrees C?

- (a) 110% (b) 120% (c) 130% (d) 140%

January Code Questions Cont'd

What is the circular mil area of a #2/0 THW copper conductor in a raceway?

- (a) 0.2781 (b) 0.2332 (c) 0.419 (d) 133,100

Stay Active in Winter

From the January/February Issue of the *Wellness Connection*

A minimum of 30 minutes of moderate-intensity physical activity a day is what the Centers for Disease Control and Prevention recommends for a healthy lifestyle. But the activity doesn't have to be hard to give us some benefit. And we don't have to go out in the cold.

A "moderate-intensity" activity is one that burns 3.5 to 7 calories per minute. Activities, including everyday chores and recreational activities, that qualify as moderate intensity are listed below. If you do not currently engage in regular physical activity, gradually build up to the recommended 30 minutes. Here are some examples of moderate-intensity activity:

- Shoveling light snow
- Scrubbing the floor or bathtub while on hands and knees
- Carrying firewood
- Putting groceries away; walking and carrying especially large items
- Home repair
- Playing with or training animals
- Playing instruments while actively moving
- Singing while actively moving about
- Ballroom dancing
- Juggling
- Yoga

Track the time you spend on chores and hobbies. Perhaps you'll find you are more active than you thought. Or be inspired to get more active.