



# WATTS UP

2ND QUARTER—2003

## Thoughts from the Executive Director



Failures and challenges in business or in your personal and professional relationships is a part of growth and every day life. Some failures and challenges are larger than others. If used correctly, they can be a valuable tool. Many great leaders have had significant failures and challenges in their life and they still succeeded.

How about these failures and challenges of this individual:

- He failed as a business man - specifically as a storekeeper
- He failed as a farmer - he despised this work
- He failed in his first attempt to obtain political office
- When elected to the legislature he failed when he sought the office of speaker
- He failed in his first attempt to go to Congress
- He failed when he sought the appointment to the United States Land Office
- He failed when he ran for the United States Senate
- He even failed when friends sought for him the nomination for the Vice-Presidency

In spite of all of his failures and challenges, Abraham Lincoln was an extremely successful leader and accomplished tasks that many said would never be done. But in all of these failures and challenges, he consistently maintained his focus on his objectives. He never lost sight of that.

Whether you lived in 1800's or now in the 2000's...the 2 things you can be sure of is that; you will fail **and** you will be faced with life's challenges. What makes individuals and corporations successful as oppose to others that are not, is will you learn from these mistakes and can you focus on the objectives so that you can overcome life's challenges.

*Walt Czrynik*

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Need something notarize for free!  
 Stop at the IEC Office  
 JoAnna is a Notary Public

**Applications**  
 For the year 2003, we have had 231 applications that have been available for the contractors to review.

## Thomas & Betts Names Walt Czyrnik, Mid-South IEC Chapter Executive Director, 2002 *Electrical Professional of the Year*

Thomas & Betts honored Mid-South IEC Chapter Executive Director Walt Czyrnik among the 2002 *Signature Award* recipients in May at the 2003 meeting of the National Association of Electrical Distributors (NAED) in Atlanta, Ga. The theme for this year's competition was "Thinking Outside the Box," and categories included: *Electrical Professional of the Year*, *Electrical Company of the Year* and *Student/Apprentice of the Year*. A committee of editors from *CEE News*, *EC&M*, and *Electrical Wholesaling* selected the award winners. Czyrnik received the *Signature Award for Electrical Professional of the Year* from Kevin Dunnigan, the CEO of Thomas & Betts; Dominic Pileggi, the COO; and Nick Casella, Senior Vice President of Marketing and Sales, at the T&B Distributor Appreciation Dinner on Saturday.

"Walt has indeed proven that thinking outside the box is imperative within the electrical and systems industry," says Gene Mini, IEC National President. "Walt led the Mid-South IEC Chapter to win the *IEC National Award for Legislative Chapter of the Year in 2002* and has greatly improved the chapter's apprenticeship program, thereby improving the number of successful electrical apprentices."

Czyrnik initiated, processed and received Veteran's Affairs (VA) approval for the Mid-South IEC Chapter. This VA approval initially affected 22 of the chapter's apprentices allowing them to receive their VA benefits, and they were also financially rewarded for being IEC apprentices. Due to the chapter's VA-approval status, the local United States Naval Facility has increased its awareness of the Mid-South IEC Chapter and has begun helping the chapter recruit quality apprentices.

Czyrnik initiated and developed training labs for electrical apprentices in order to expand upon their theory knowledge. His concept of "adults learn best by doing" is a philosophy that has been test-driven and proven highly effective for over 100 apprentices. Czyrnik developed 12 lab stations that up to 36 students can use simultaneously. Additionally, he was responsible for the equipment grants that financed the electrical components of these stations. Each lab station can be easily reconfigured to teach a first-year student or a fourth-year student and anyone in between.

"Just as the labs were built with versatility and growth in mind, so too does the Mid-South IEC chapter continue to grow under his leadership," says Mini. "It is Walt's creativity and vision for the future of the electrical and systems industry that makes everyone at IEC proud to know and work alongside him."



Shown from left to right: Dominic Pileggi - T&B President, and COO, Kelly Myers - Apprentice Winner, Michael Compton - Guarantee Electric - Electrical Contractor Winner, Walt Czyrnik - Electrical Professional of the Year winner and Kevin Dunnigan, T&B CEO and Chairman of the Board.

## IEC National President - Gene Mini visited our Chapter



The National IEC President, Gene Mini spent some time at the Mid-South IEC this past quarter. What made his trip even a more successful was that his recent visit took place at the same time that the Mid-South IEC had its monthly general membership meeting.

Both contractor and associate members alike had the opportunity to hear Gene's viewpoints on seeing what is in the future at the National level, but more importantly there was open conversation with the general membership on what's hot in the industry.

After the general membership meeting, contractor members had the opportunity to spend some one on one time with Gene at the IEC office.

Gene seemed genuinely pleased with the positive growth and the success that the Mid-South IEC has felt and was very interested on the processes and services that are in place at the Mid-South IEC that has aided in the success of the chapter.

The Mid-South IEC would like to thank Gene on spending some quality time with the Chapter and the Members of the IEC.

## Code Corner

By: David Greer

### Give Me Some Space!

With the cost of construction ever rising, Design consultants are doing their best to use every available square foot of a building. To this end we often find that when it comes to adequate space for electrical system components, we're often left a little short. Too many times we see that other systems such as heating and air, plumbing, and sprinkler systems must occupy the same space.

Article 110-26 is all about "Our Space". A few of the key areas to consider are 110-26 (a) 2, "width of working space in front of electrical equipment shall be the width of the equipment or 30" whichever is greater. In all cases the work space shall permit at least a 90 degree opening of equipment doors. 110-26 (f) 1 (b) discusses foreign systems. Specific mention is made of Sprinkler systems if in our dedicated space, to be provided with protection from leaks etc. Typically our dedicated space is the width and depth of the electrical equipment from the floor to 6' above the equipment or the structural ceiling, whichever is lower.

Don't be afraid to discuss this with other trades as the work progresses and say...

**"Give me some space!"**

## ASSOCIATE MEMBER OF THE MONTH

### Cutler Hammer

for  
April 2003



Cutler Hammer would like to thank the Mid-South Independent Electrical Contractors, Inc in selecting our organization as the Associate Member of the Month. We selected our Memphis Warehouse as the site to host the general luncheon meeting to allow your members to see our facility.

The Memphis warehouse is over 140,000 square foot warehouse and has in excess of \$10 million in inventory. The warehouse employees over 65 people. The warehouse inventories all sizes of transformers through 500 kva, commercial metering, safety switches, residential and commercial load centers. This warehouse is open 24 hours a day seven days a week with a limited staff on all holidays. This warehouse is available to all local contractors for all products on a will call situations if necessary.

Our local Cutler Hammer sales organization has 7 employees here to support your individual business's in the future with design build projects and quotation opportunities.

Cutler Hammer is the leader in molded case circuit breakers, medium voltage switchgear and motor controls. We have the most complete line of motor control in the industry which covers from photoelectric sensors to medium voltage contactors.

Thanks again for allowing us to host your April luncheon meeting.



Everyone leaning more about Cutler Hammer's company and their processes

## 2003 Tradeshow - BEST EVER !!!

On May 8th 2003, the Mid-South IEC held its 5th annual Tradeshow. This year's tradeshow was the best ever. There were more vendors and more attendees then ever.

Ever year the tradeshow seems to get larger and larger and this year was no exception. At this rate the Mid-South IEC may have to move the tradeshow to a larger area of the Agri-Center.

We at the IEC would like to thank all of our industry partners for supporting the IEC and participating in the tradeshow. Additionally, we would also like to thank those that came by and spent time with the vendors to learn what's new in the industry and we encourage everyone to do business with those vendor that support the industry.



### Those Industry Partners that supported the IEC in the Tradeshow:

A to Z Advertising	Eaton Cutler Hammer	Ram Tool & Supply Co.
Advantix Solutions Group	Factory Sales Agency	Rental Service Corporation
Aerial Truck Equipment Co., Inc	Federal Alarm Co.	RP Power, LLC
Allied Systems, Inc.	Federated Insurance	RT Electrical Sales
Alpine Power Systems	Fleetboss	Simplex Grinnell
American Home Inspectors Training	Fortier Loss Control Consultants, Inc	Spectrum Lighting & Controls
Aramark	GE Supply	Square D Company
Burford Chiropractic	Graybar Electric Company	State Systems Inc.
Byron Carson Co.	Hardhat, INC	Stewart's Wholesale Electric Supply Inc.
Chuck Hutton Chevrolet	HILTI, Inc.	The Strategies Group
Cingular Wireless	Ideal Industries, Inc.	Thomas & Betts
Computer Environment, Inc	Landers Ford	Thompson Power
Consolidated Electrical Distributors	LPS, Inc (Cooper Lighting)	Vermeer Sales & Service, Inc.
Cummins Mid-South	Menard, Gates & Mathis, Inc.	WESCO Distribution
Curtis H. Stout of Tennessee, Inc.	NES Rentals	Xspedius Communications
D&L Promotions	Network Telephone	Z-Tech Communications, LLC
Dobbs Ford at Wolfchase	Parr-Park & Associates	

## **FIRE ALARM CLASS AT THE IEC**

**If you have ever asked yourself any of these questions, this course is for you:**

- Is a Fire Alarm System required in this building?
- What's the difference between one Fire Alarm System and another?
- Why can't I connect a Brand X smoke detector to a Brand Y Control Panel?
- What does the Fire Department require for this building in Memphis, Shelby County, Germantown, Collierville, Millington, Arlington, Bartlett, Southaven; West Memphis? Why are they different?
- How can I help my Fire Alarm vendor finish this job on time?
- Why did the Fire Marshal make me move that smoke detector, horn/strobe, heat detector, pull station, etc.
- Why did we fail the Fire Marshal Inspection when my Fire Alarm System was working?
- I have the NEC (National Electric Code), why don't they have an NFC (National Fire Code)?
- How do I estimate a Fire Alarm System?
- If my Fire Alarm System is Addressable, why do I have so many wires?

The Mid-South IEC will be hosting 2 Fire Alarm Classes that will answer all of the above questions. The Fire Alarm Class is designed for Superintendents, Estimators, Project Managers and Principals.

This course will be taught as a 2 session course and if you desire, will be taught over a 1 or 2 day period. The dates of the training sessions is August 13th and 14. Training session 1 will be taught on both days from 12:30PM - 2:30PM and training session 2 will be taught on both days from 3PM - 5PM at the IEC training facility.

The class includes:

- Learning all of the above mentioned questions taught by a NICET Level IV Certified Technician
- NFPA 72 (The National Fire Alarm Code Book at a small extra fee)
- Free - Installation Guides for Audio Visual Devices; Strobes; Duct Smoke Detectors; Beam Detectors; Intrinsically Safe Fire Protection Equipment; Smoke Detectors; Filtrex Application Guide; Laser Detectors; and Fire Alarm and Security Glossary



These classes are on a first come first served basis. Therefore call the IEC office at (901) 682-3546 for additional details and to RSVP for your class seat.

## NATIONAL ELECTRIC CODE COURSE THIS FALL



Due to the last three Code Classes being such a success and upon request from the IEC members, the IEC will be hosting a NEC course.

Some of the items that you and your employees will learn at the NEC class are:

Codebook layout	Junction and Pull Box sizing	Article 430 Motors
Setting up your code book for maximum efficiency	Voltage drop for Branch circuits and Feeders	Sizing motor circuit wiring, over current protection and feeder sizing
Articles 90-100	Enclosure NEMA Ratings	Article 450 Transformers
Ohms law basics NEC chapter 2	Articles 220-230	Basic Transformer Calculations
Definitions	Over-current protection	Getting along with Code enforcement
Code related Math (don't worry)	Article 250 Grounding Definitions	Shelby County Code vs. NEC
Code misconceptions	Methods and Materials Bonding	...and much more !!!

We are very excited about starting this Code class. To ensure that we are prepared for this class, we need to know how many students will be attending and how many books to order. Therefore, we are asking that you let the IEC office know on how many plan to attend from your company We are asking that you let us know this by the close of business 8/29/03.

Also, many of your employees mentioned to us that they would like to attend this code class and they would be willing to pay for it themselves. I encourage you to ask your employees that question.

The price for the Code class for IEC contractor members is \$199.00 or \$249 for non-IEC contractor members plus books.

The two books you will need is:

- 1999 National Electrical Code Book / (\$45.00)
- Mike Holt's Understanding the 1999 National Electrical Code / (\$46.00)

Note: being that Shelby County is still using the 1999 Code, this course will be using the 1999 NEC

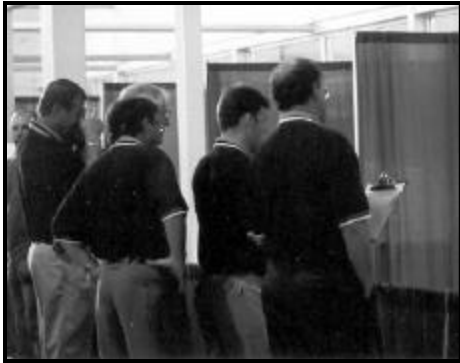
If you have either of these specific books, you can bring them to class. If you do not have them, please let us know and we can order them for you. **Please let us know quickly** due to shipping time. This 11 week class will be on every Thursday night, starting October 2nd from 6:00PM to 9:00PM at the IEC's training facility.

Remember, if your employees understand the NEC, they are less likely to make mistakes on the job and do the job the correct way the first time...thus saving you money.



## 2003 Wire-off Competition

This year's wire-off competition was held in conjunction with the IEC's tradeshow on May 8th 2003. The comments that were heard from the individuals attending the tradeshow and wire-off was very impressive such as "...this is the some finest electrical work that I have seen in Shelby County" and "...these apprentices have a lot to be proud of".



We would also like to thank the judges for doing such a great job: Tony George, Collin Carlock and Jim Rodgers



2003 Wire-Off Participants

- |               |                    |
|---------------|--------------------|
| Kenny Barrett | Ekmark Electric    |
| Griffin Cook  | Ellendale Electric |
| Nathan Crews  | ARC Electric       |
| Damon Edwards | Gusmus Electric    |
| Jeff Harris   | Ekmark Electric    |
| Eugene Kaszas | Davis Electric     |

The winner for the wire-off was Griffin Cook from Ellendale Electric

## National IEC Now Offers IEC Products

In an effort to increase the Association's exposure and visibility, IEC National is launching an IEC PRIDE product line on its website at [www.ieci.org](http://www.ieci.org)

*Apparel* includes: a baseball cap with T-shirt combination pack, a golf shirt, and a sweatshirt with the IEC insignia. The *jewelry collection* includes: an IEC key chain, watch, and money clip. The *IEC merchandise* section offers: a jumbo IEC Maglite flashlight, an IEC travel mug, and a license plate cover. The *IEC office accessories* section showcases an IEC padded portfolio cover and a pen/pencil set.

So visit the National IEC's website at [www.ieci.org](http://www.ieci.org) and place your order to show your pride of the industry.



## 2003 IEC's Graduation

The IEC's Electrical Apprenticeship graduation was held on Thursday, June 18, 2003 at the Germantown Country IEC. A lot of pride was felt during the graduation ceremony and dinner.



Back row left to right: Stephen Cooper, Chris Bunch, Eugene Kaszas, and Jeff Harris. Front row left to right: Kenny Barrett, Nathan Crews, Damon Edwards, and Griffin Cook.



Apprentice of the Year  
"Griffin Cook"



4 years of Perfect Attendance  
"Kenny Barrett"

## Structured Cabling for Voice, Data & Video Communications - An Overview



Widespread usage of any technology depends on the existence of acceptable standards. The most important standard and the only one that is mandatory is the National Electrical Code developed by the National Fire Protection Assn. that covers all aspects of electrical safety. Article 800 of the NEC covers communication circuits, such as telephone systems and outside wiring for fire and burglar alarm systems and Article 770 covers fiber optics. Also, all Voice, Data & Video wiring must comply with building and electrical codes applicable in your state or city.

During the 1980s, phone signals became digital, LANs proliferated and new cables and cabling architecture were needed. The goal was to make buildings "smart," able to allow computer and phone conversations over a standardized wiring system. By the early 90s, a scheme of "structured cabling" was standardized by technical committee of a trade association, the merged Electronic Industries Association and Telecommunications Industry Association (hereafter referred to as EIA/TIA).

Just to confuse everybody, this cabling standard, developed by the EIA/TIA TR 41.8 committee - now renamed TR 42, is referred to by the number of the primary standard, EIA/TIA 568, although there are actually a number of standards, technical advisories, etc. that cover all aspects of structured cabling. We'll go along with the crowd and simply say "568" when we generally mean the entire output of the TR 42 committee!

And to further confuse everybody, many people think this standard is a mandatory, even legal, document like the NEC.



**NO WAY!** "568" is a *voluntary interoperability standard* for communications cabling, developed by a number of manufacturers of cabling components and networking equipment, so that they might make equipment that could use any 568-compliant cabling system and be upgraded in the future as long as it was designed for the same cable plant.

What 568 is, in fact, is a common sense approach to cabling that offers interoperability, upgradability and low cost due to the numerous manufacturers offering compatible products.

## WE WOULD LIKE TO WELCOME ABOARD OUR NEWEST MEMBERS:

### New Communication Contractor

Communication Technologies Group      Larry Brown      (901) 255-8000

### New Associate Members

Thompson Power      Kip Lemons      (901) 344-5673  
 Computer Environment      John Colmer      (901) 761-0885



## Associate Members

### These Industry Partners Support IEC!

*Please keep them in mind when making a business decision:*

American Home Inspector Training Institute

Brown & Associates

CED

Computer Environment

Cummins Mid-South

Cutler-Hammer

Federal Alarm

Federated Insurance

First Light Lighting

1st TN Bank -David Warlick

GE Supply

Graybar

Harris, Madden & Powell

Jackson, Shields, & Yeiser

Leviton Mfg.

Menard, Gates, and Mathis

Nextel

NES

Rental Service Corporation

Rexel Southern Electric Supply

RP Power

Simplex Grinnell

Stewart's Wholesale

Thomas & Betts

Thompson Power

TVESCO, Inc.

WESCO

XO Communications

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**" We must open the doors  
of opportunity. But we  
must also equip our  
people to walk through  
those doors."**

We're on the Web!  
[www.midsouthiec.com](http://www.midsouthiec.com)



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For a complete schedule of events, please visit our website at  
[www.midsouthiec.com](http://www.midsouthiec.com) and click on "calendar"