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Gaddis will call on values and strategic plan to guide way

NEMA's new president, Evan Gaddis, says that while NEMA and the industry face challenges now and in the future, particularly from overseas competition, the strategic plan that he was handed by the NEMA Board of Governors when he arrived provides ample direction. In a wide-ranging discussion with the editors of *electroindustry*, Gaddis



Gaddis

recently shared his views on the industry, the association, and leadership.

He said his exposure to NEMA began well before he was interviewed by members of the board. "In my work with the Gas Appliance Manufacturers Association [GAMA], I frequently sat with Malcolm O'Hagan in meetings around Washington, D.C. We partnered with NEMA on a number of initiatives, including the energy bill, legal issues, and the China office. So I knew that NEMA was a capable organization and that it would offer me interesting challenges and opportunities."

Gaddis said that while he was not really surprised by anything when he started work at NEMA, having been thoroughly briefed



by the board and staff leaders, he did say that he was nonetheless pleased with the professionalism of the staff and the insight and openness of the board.

Asked about his experience in the Army and at GAMA and how it would lend itself to leadership of NEMA, Gaddis, a former two-star general, said that the leadership qualities he values are common to all organizations. "Leadership is leadership," he said. "It doesn't change. It requires vision, dedication, hard work, and occasionally the willingness to take risk, although it should

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NEMA and its member companies sprang into action after Hurricanes Katrina and Rita, by providing critical information and much-needed supplies, equipment, and cash donations for the victims.

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NEMA begins work to ensure proper implementation of energy bill provisions inciting increased infrastructure investment.



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NEMA announces Kite & Key Award winners

NEMA will present its Kite & Key Award to Clive Kimblin, Ronald Lai, and William Russell at its 79th Annual Meeting and Leadership Conference to be held November 12-14, 2005, in Washington, D.C. The award recognizes individuals who have advanced the interests of the electrical industry through active and sustained involvement in the affairs of NEMA.

Clive W. Kimblin, PhD



Dr. Clive W. Kimblin has been very active in NEMA and the National Fire Protection Association, and has been an IEEE

Fellow since 1993. He chaired the NEMA Low Voltage Distribution Equipment Section from 2001 to 2004 and provided staff and members with critical guidance during consolidation of the Molded Case Circuit Breakers, Panelboard and Distribution Board, Switch, and Busway Sections into a single LVDE section. He subsequently chaired the Molded Case Breaker product group and the LVDE Standards and Conformity Assessment Committee.

Kimblin has been a member of the NEMA Codes and Standards Committee since 1995 and has served as vice chairman since 2001.

He has been a member of NFPA since 1992 and has represented NEMA and his industry in the National Electrical Code® process since 1996, serving on code making panel 10, which includes over-current protection.

Kimblin has served as a NEMA representative to ANSI/U.S.

National Committee Council since 2003, a U.S. Technical Advisory Group delegate to IEC 23E/WG1 since 2000, and a chair of CANENA Working Group 17B/23E since 2002.

Kimblin is also a member of the NEMA/ElectroFederation Canada Industry Advisory Committee on the UL/CSA memorandum of understanding on product testing and certification, which is focused on reducing time and costs for manufacturers to have their products listed for sale in the U.S. and Canada.

He is now a consultant on applications, codes, and standards for Eaton Electrical. Preceding that, he was manager of applications and standards for Eaton Electrical. Kimblin also worked at Holec/Begemann in the Netherlands for five years, and before that was involved in circuit breaker and vacuum interrupter development at the Westinghouse Research and Development Center in Pittsburgh, Pennsylvania.

Kimblin's colleagues know him as a technical expert on circuit protection products, a skilled speaker, and an advocate for his company and electrical product safety.

Ronald Lai



Ronald Lai, senior Areva expert and senior director, global engineering services and standards for FCI USA, has

been a leading force in the electrical connector industry for 39 years.

Throughout his career, Lai has been involved with the design and testing of connectors ranging

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It is the GFCI work of three IEC committees that U.S. interests targeted in order to counter activities by other, largely European, interests to restrict the voltage dependent devices. NEMA took specific aim at working groups and maintenance teams responsible for development of document drafts and response to comments submitted by national committees.



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NEMA Field Representative John Minick notes that the North Carolina Building Code Council's recent decision is at odds with the common understanding of the National Electric Code nationwide.

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NEMA and its membership provide assistance for victims of hurricane and rebuilding effort

Hurricane Katrina unleashed its fury on the Gulf Coast on August 29. With winds of 175 mph, this category 5 storm precipitated what many are calling the largest natural disaster in the history of the United States. Katrina's catastrophic effects wreaked havoc on the citizens and communities of Louisiana, Alabama, and Mississippi. Left for several days with no power, no drinking water, no medical assistance, dwindling food supplies, and toxic flood waters that rose to rooftop level from major levee breaches, these cities were virtually destroyed, leaving thousands of residents homeless and helpless.

The obvious need for help of all kinds touched the hearts of many across this nation. NEMA and its member companies sprang into action in response, by providing critical information and much needed supplies, equipment, and

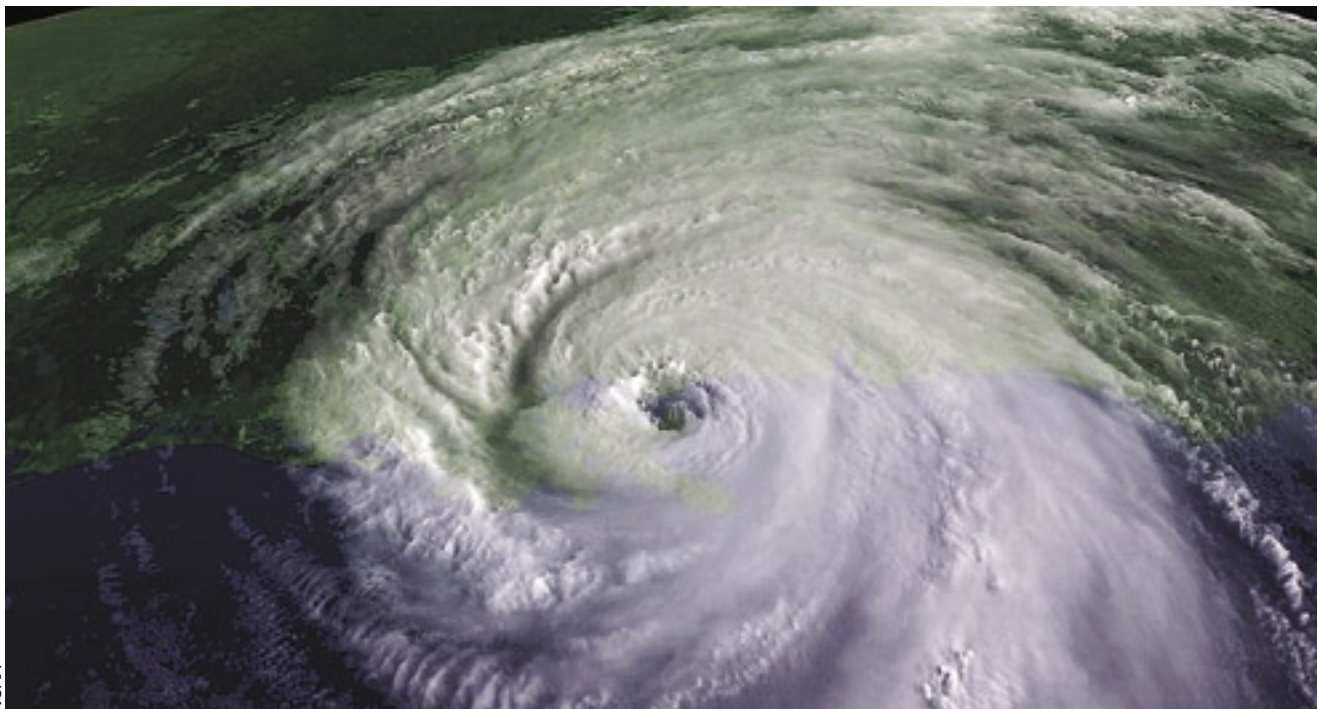
cash donations for the victims.

Electrical hazards posed a serious threat in the aftermath of Hurricane Katrina, so NEMA worked to get copies of its brochure, *Guidelines for Handling Water Damaged Electrical Equipment*, to electrical distributors, contractors, and inspectors who will be working to restore electrical systems in the Gulf Coast region. The document provides advice on the safe handling of electrical equipment that has been exposed to water, and outlines which items will require complete replacement or can be reconditioned by a trained professional. John Minick, NEMA's Southeast field representative, was slated to drive through the region, beginning in Lake Charles, Louisiana—170 miles west of New Orleans—and make his way to the east hand-delivering the brochures to electrical personnel. NEMA's standards publishing partner, IHS,

headquartered in Denver, printed the brochures gratis and shipped them the same day the request was made.

NEMA members have made huge contributions to the relief efforts. Schneider North America pledged \$1 million to the Red Cross, Habitat for Humanity, and the Salvation Army. The Square D Foundation will match donations from its employees in the U.S. In addition, Square D offered a toll-free hotline for safety advice and technical questions, and their "WE CARE" program is in effect in Federal Emergency Management Agency (FEMA)-declared disaster areas to address public safety and support electrical industry professionals as they repair damaged structures and systems.

Siemens deployed critical infrastructure equipment—sending power generators to hospitals in Louisiana and Houston, Texas, where



NOAA

many of the evacuees were sent for shelter in the Astrodome. They also provided telecommunications equipment to emergency centers and key hubs, USFilter water treatment equipment, heart monitors, and imaging equipment to Houston area hospitals. Siemens Medical Systems made electronic medical records (EMR) software available at the Astrodome to help rebuild lost medical data for hundreds of thousands of Gulf coast residents and to track potential disease outbreaks in the aftermath. A 100 percent matching donation program is also in effect for its 70,000 U.S. employees.

GE donated over \$6 million to the Red Cross and employees contributed approximately \$1 million, which the GE Foundation matched at 100 percent. The company also supplied \$10 million in equipment and services. GE Healthcare gave portable X-rays, ultrasounds, C-arms, and patient monitoring devices to the hardest hit areas, as well as Houston, Baton Rouge, and Jackson, Mississippi. GE Consumer & Industrial initiated a disaster preparation and response action that assigned teams of people from all of its business units to help restore power and provide needed equipment, water, security, and healthcare throughout the region. Children showed their concern as well. The children of one GE Healthcare employee raised \$382 selling lemonade and desserts, which the company agreed to match for a total donation of \$764.

Johnson Controls, which operates five controls group sales offices and three automotive manufacturing facilities in the ravaged areas, gave a \$1 million contribution to the Red Cross.

Cooper Industries has approximately 900 people in Mississippi, with about 300 employees in the Cooper Power Systems plant in Lumberton, Mississippi. This plant was directly in the path of the storm and a number of employee's homes

sustained damage. Cooper's foundation contributed \$10,000 to the area chapter of the Red Cross that serves Lumberton, and will match two-for-one every employee dollar given to the Red Cross (from \$35 to \$500). This special match will be in effect through November 1.

As rescue and recovery efforts continue, Eastman Kodak is exploring ways in which its products may be useful in assessing damage and treating survivors. The company also gave a \$500,000 donation.

DuPont has five facilities that were impacted by Hurricane Katrina—Delisle and Pascagoula, Mississippi; Pontchartrain and Burnside, Louisiana; and Mobile, Alabama. The company donated \$1 million, the bulk of the contribution being given to the Red Cross, with priority to the communities in greatest need. Another portion was given to the Salvation Army. The balance will be used for ongoing recovery efforts in DuPont site communities. In addition, the company established the DuPont Hurricane Katrina Fund to channel financial donations from employees, retirees, and others to communities near DuPont sites that were hit by the storm. DuPont will contribute an amount equal to the total fund contributions up to \$1 million. The supplemental company contribution will apply to personal donations made through the end of 2005.

Energizer Holdings, Inc., sent 90,000 flashlights and more than 200,000 batteries to aid Hurricane relief workers and help the victims. Energizer worked with the Red Cross to distribute the products. Schick-Wilkinson Sword, a subsidiary of Energizer, distributed razors to the victims that are in shelters.

ABB power equipment manufacturing facilities worked around the clock to supply utilities with transformers and other electrical equipment needed to restore electricity, and worked with customers to reschedule

deliveries to provide space for the manufacturing of equipment earmarked for the Gulf Coast. ABB employs about 100 people in the Gulf Coast region and has some 220 retirees living there.

Honeywell, with approximately 525 employees in Louisiana and Mississippi, donated \$500,000 to support a number of programs. Contributions made through Honeywell Hometown Solutions will first target Honeywell employees, and the remaining funds will be used for local fire and rescue squads, whose resources have been depleted, as well as for specific rebuilding projects in Honeywell communities. The company will also contribute \$100,000 to the Honeywell Humanitarian Relief Fund and will match all employee donations dollar-for-dollar. Honeywell also made their Sikorsky 76 helicopter and its supporting air and ground crews available to FEMA to aid in search, rescue, and emergency supply efforts.

Lincoln Electric Holdings, Inc., partnered with the Future Farmers of America, and donated engine-driven welders and generators for emergency power backup to schools in the three stricken Gulf states. The company also supplied industrial, rental, and retail distributors and customers with products to help their communities.

"These generous contributions and heartfelt acts of kindness exemplify the commitment and dedication that NEMA and its members have toward the families, communities, customers, and employees whose lives were shattered by this hurricane," said then-NEMA President Malcolm O'Hagan. "On a grander scale, it illustrates the heart and generosity of the American people to those in need."

As we learn of participation from other NEMA member companies in Hurricane Katrina relief efforts electroindustry will do a follow-up story to highlight their contributions. ■

NEMA sets sites on Energy Policy Act implementation for T & D products

Electric transmission investment over the past 25 years has been declining at a rate of almost \$120 million per year. NEMA's energy bill advocacy for transmission products and technologies in the past four years has focused on numerous complementary provisions incenting increased infrastructure investment. NEMA advocated propositions include the following (EPAcT 2005 Section):

- Mandatory and enforceable transmission standards (Section 1211)
- Federal backstop siting (Section 1221)
- Advanced transmission technologies (Section 1223)
- Incentive-based rates (Section 1241)
- 15-year transmission asset tax life (Section 1308)

As Yogi Berra said, "It ain't over 'til it's over." While the Energy Policy Act of 2005 includes major NEMA drafted or advocated incentives for electric transmission infrastructure investment, federal government regulation is still required to implement these provisions. NEMA is now promoting a list of major federal regulatory actions needed in the near term to implement EPAcT 2005 transmission provisions in a way that maximizes investment and leads to an improved transmission grid system.

To illustrate, one of the required rulemakings (mandatory standards) has already begun. Traditionally, there were two reliability standards regimes: 1) operational reliability (formerly called "security"), focused on operating installed facilities; and 2) adequacy, assuring sufficient planned future capacity. EPAcT 2005 requires only operational reliability to be considered; there is no articulation of how to enforce a transmission plan, or of a clear role for the new



Electric Reliability Organization in the transmission planning process. Typical regional transmission plans now include margins of about five percent in the out years, which is in the range of one-fourth to one-third of traditionally accepted values. Adequacy in such situations can only be assured through last minute additions of short lead-time alternatives, such as natural gas fired combustion turbines, which may not be the most economical solution. Because transmission additions have long lead times, they are essentially precluded with such plans, even though the costs of transmission

solutions are typically less than 10 percent of the cost of other alternatives. NEMA does not believe this situation is in the public interest.

NEMA participation in the implementation process is also clearly needed for advanced transmission technologies and incentive-based rates. NEMA drafted both of these provisions and consequently understands the intent. NEMA's proposals envisioned "advanced transmission technologies" to be handled in the context of incentive-based rates. The final EPAcT 2005 language makes the linkage unclear and a FER

rulemaking requirement exists only for incentive-based rates. NEMA plans to advocate that FERC define technologies referred to in the act as “related technologies” to be called “advanced transmission technologies” instead.

NEMA is also involved in the energy tax provision that changes the tax life for transmission assets from 20 years to 15 years. NEMA is preparing recommendations to the IRS on tax guidance and regulations to implement this provision, which can apply to assets contracted for or placed in service after April 11, 2005. As implementation of EAct 2005 proceeds, NEMA will be providing reports of its progress. NEMA has issued a 20-page report titled “NEMA Assessment of the Energy Policy Act of 2005” that can be found on www.nema.org.

The following table highlights key FERC and DOE regulatory milestones for EAct 2005 transmission and distribution products and technologies. ■

Milestone EAct 2005	Scheduled Date
FERC rule on mandatory and enforceable transmission standards and Electric Reliability Organization (Section 1211)	180 days after 8/8/05. Notice of Proposed Rulemaking in Federal Register 9/7/05; comments due 10/7/05.
DOE and FERC report on transmission system monitoring (Section 1839)	2/8/06
DOE five-year transmission & distribution program plan (Section 925)	8/8/06 and a progress report two years after the plan.
DOE Identification of National Interest Electric Transmission Corridors (Section 1221)	8/8/06 and every three years thereafter.
MOU on environmental review of federal transmission siting (Section 1221)	8/8/06
FERC rule for contents of federal transmission siting application (Section 1221)	Not specified
FERC rule on incentive-based transmission rates (Section 1241)	8/8/06
DOE study on rapid grid restoration by mobile transformers and substations (Section 1816)	8/8/06
DOE regulations on environmental review of federal transmission siting application (Section 1221)	2/8/07
DOE study on cogeneration and small power production (Section 1817)	2/8/07

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RETURN ON INVESTMENT

GFCIs: Two technologies for safety

One of a series of articles illustrating the return on investment electrical manufacturers achieve through their involvement with NEMA.

The Challenge

Ground fault circuit interrupters (GFCIs), or RCDs as similar devices are called internationally, are installed in electrical circuits to help preclude homeowners and others from being subjected to potentially lethal electric shocks. They provide protection by employing a concept called residual current detection, whereby a difference in current through the circuit conductors causes the circuit to open, thus preventing serious injury or electrocution.

While there is widespread consensus about the efficacy of these devices, there is serious disagreement over whether or not the operation of the device should be dependent on availability of voltage from the protected circuit (voltage dependent), as well as over the level of protection offered by the device.

GFCIs in the United States are voltage dependent and will shut down the circuit once there is "let go" current detected, i.e., approximately 6 mA or the level at which control over voluntary muscles is lost and one loses the ability to let go of the source of the current. In Europe, most devices are not voltage dependent and are designed to shut down to protect against fibrillation (when the heart is ineffective at pumping blood, a potentially fatal condition) at about 30 mA.

For the last 15 years, there have been attempts by countries supporting the voltage independent technology, working within the International Electrotechnical Commission, to set standards restricting the use of voltage dependent GFCIs.

The Game Plan

Most relevant GFCI standards development activity takes place within IEC committees SC17B, SC23E, and TC64. It is the work of these committees that U.S. interests targeted in order to counter activities by other, largely European, interests to restrict the voltage dependent devices. NEMA took specific aim at working groups and maintenance teams responsible for development of document drafts and response to comments submitted by national committees.

When proposed documents would affect the design characteristics and installation opportunities for GFCIs, NEMA staff would coordinate the polling of U.S. constituents. If the requirements were found to be unduly restrictive, rebuttals would be prepared and argued in committee deliberations.

The Results

In IEC SC17B, which addresses low-voltage switchgear and controlgear, including circuit breakers which may have a GFCI function, there has been agreement to examine the different technologies from a roughly equivalent standpoint and to establish levels of performance appropriate for the applications. In IEC TC64, which is the committee responsible for writing electrical installation safety standards, several standards containing requirements for selection and installation of GFCIs now incorporate the concept that all of the devices are intended to provide protection and need to be suitable for the electrical installation in which they will be used. Requirements specific to one technology or the other have been largely eliminated, although some countries with particular code or legal restrictions still identify limits

on the access of the voltage dependent technology within their domain. One key document, currently under revision, may soon contain requirements that are not technology specific and simply address the needs for protection within a given installation. The least amount of progress has been achieved in IEC SC23E, which works on the standards for household circuit breakers and similar devices. But even in this case there has been movement toward inclusion of requirements to ensure appropriate protection.

The Value

The travel costs to attend meetings, the time to evaluate the IEC proposed documents and modifications to existing documents, and the efforts to develop the technical arguments addressing unreasonable restrictions on the use of voltage GFCI over the last 15-plus years are insignificant when compared to the damage that might have ensued without them. The IEC standards currently being published or being considered for publication have achieved a relatively high level of parity between the two technologies that help the world achieve improved electrical safety. Continued vigilance is needed to ensure that further progress is made. Successful efforts to limit the acceptability of North American type devices in favor of voltage independent devices would preclude U.S. manufacturers from selling their GFCI products outside of North America. While North America is a huge market, the market elsewhere, especially in China and other Asia and African countries, is vast and only now emerging. ■

Ken Gettman, (703) 841-3254

e-mail: ken_gettman@nema.org

North Carolina machinery inspection case appealed by state IAEEI chapter

The North Carolina Ellis Canady Chapter of the International Association of Electrical Inspectors (NCIAEI) petitioned the Superior Court for Wake County, North Carolina on July 31, 2005, to review a decision of the North Carolina Building Code Council that threatens to undermine inspections of equipment. The Building Code Council's ruling follows an appeal from a determination by the Mecklenburg County (N.C.) Inspection Department that a warp knitting machine imported from Germany was unacceptable for installation, because it was not listed, labeled, or field evaluated in compliance with the North Carolina Electric Code.

The NCIAEI petition cites procedural and substantive objections to the Building Code Council decision, noting that the appeal to the Building Code Council bypassed the commissioner of insurance, who under North Carolina law has general supervision over the administration and enforcement of all sections of the North Carolina Building Code pertaining to electrical systems. The petition labels the Building Code Council's hearing as "one sided," citing the failure of the council to take the testimony of persons who were most knowledgeable about the electric code. NCIAEI's petition cites a field test of the knitting machine in question, commissioned by the contractor who appealed the Mecklenburg County Inspection Department determination.

The petition alleges that the field test revealed violations of the North Carolina Electric Code that present safety hazards. NCIAEI's petition asks the Superior Court to reverse the decision of the Building

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NEMA website wins standard of excellence award for 2005

The NEMA website, www.nema.org, has been awarded the 2005 Standard of Excellence WebAward by the Web Marketing Association.

Over 2,000 websites from 33 countries were entered in this annual competition. The sites were reviewed by a panel of judges including the news media, advertising executives, site designers, content providers, and webmasters. Design, copy writing, innovation, content, interactivity, navigation, and use of technology were all considered.

"NEMA is pleased to be honored by the Web Marketing Association with this award," says Rae Hamilton, vice president of communications. "We are constantly working on improving our website and this award is an indication that we are on the right track."

Revamped several times since its initial launch, the mission of the NEMA website has remained the same: to be the premiere resource for standards, news, and product information for the electrical manufacturing community and the interested public.

"It's rewarding to know that we developed a website that effectively conveys NEMA's commitment to electroindustry professionals," says Hamilton. "The building of the site was truly a team effort that included content and technical contributions, as well as those of our standing web advisory team."

In their comments, the judges complimented the clean and clear "liquid nature of the design and robust search functionality."

In addition to the full, searchable catalog of NEMA standards and products, the website features daily news about the electroindustry, information about programs that help NEMA members achieve their business goals, links to NEMA members and industry organizations, discussion boards, online meetings, and much more.

The WebAwards are produced by the Web Marketing Association, founded in 1997 to set a high standard for Internet website development. The organization is made up of volunteer marketing, advertising, public relations, and design professionals who share an interest in improving the quality of advertising, marketing, and promotion used to attract visitors to corporate websites.

New lighting design funded by GE Consumer & Industrial enlightens ancient temple

With a new lighting design donated by GE Consumer & Industrial, the 1,200-year old Borobudur Temple, which served as the hub of Buddhism in Central Java for nearly eight centuries, was recently relit.

Borobudur Temple, at 113 feet tall and 163,000 square feet, is the largest monument in Southeast Asia and the largest Buddhist temple in the world. Ancient Indonesians spent 100 years building the monument, using the lava rock structure as a canvas on which they created elaborate drawings and carved beautiful sculptures that told the history of Buddhism.

"This temple is one of the greatest monuments ever built by man and should be seen, celebrated, and appreciated," says Robert Daniels, a lighting designer and owner of Brilliant Lighting Design in Miami, Florida. Daniels redesigned the temple's lighting with the financial backing of GE. "For years, I've wanted to create a design that brings out the depth, dimension, and detail in the temple. GE gave me that opportunity."

Daniels has revitalized the temple's lighting design by adding four additional 80-foot light poles at each of the temple's four corners; incorporating 48 additional fixtures and lamps; and repositioning current lighting poles to create the new, desired effects. GE donated the bulbs, fixtures, and lighting poles.

Daniels positioned the new poles to shine a bright white light on the highest level

of the monument. He repositioned existing poles to redirect light beams, creating shadows that highlight the intricacies in the carvings and that give each face of the temple a more three-dimensional look. He also used enhanced light-beam control to separate the golden-yellow light on the temple's lower levels from the white light on the temple's highest level.

"The shades of light symbolize stages in Buddha's life, just as different levels in the monument symbolize different parts of his life," says Daniels. "The golden-yellow lighting on the bottom represents Buddha's time on earth; the white light represents his time in heaven."

But the lighting design's chief function is not to tell a story, says Daniels, it is to help the Borobudur Temple tell its own story.

Similarly, the lights do not make the temple beautiful, but help bring out the temple's beauty. "This project is not about the lighting; it's about highlighting a piece of Indonesian history and culture. If I can help people see, appreciate, and find joy in that, then I've done my job," he says.

In addition to lighting the temple, GE donated the security lamps that illuminate the apron surrounding the temple and the lamps that light the stage.

Candidates for NEMA Board positions named

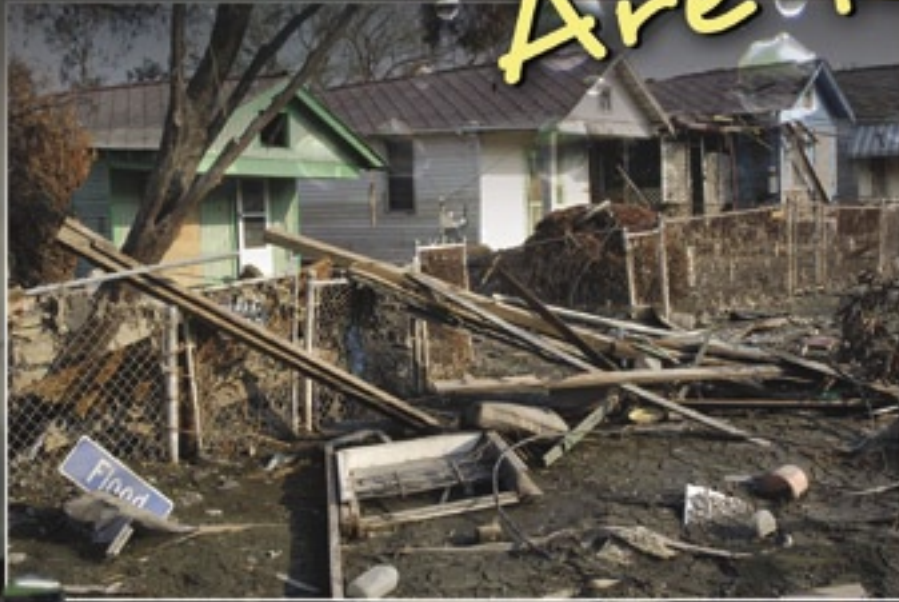
The Nominating Committee for NEMA Board of Governors has put forth a slate of candidates to serve on the board beginning

Borobudur Temple



Hurricanes

Are Real



...so are counterfeit products!

Both are potentially deadly!

Counterfeit electrical products are flooding the market and threatening public health and safety. Rebuilding lives and storm-damaged property requires vigilance and professional expertise.

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ESFI and

NEMA's AntiCounterfeiting Coalition

NECA NEMA NAED IAEI UL CSA International

Electrical Code Coalition

NECA NEMA IEC UL IBEW IAEI NFPA IBEW NJATC



International Association of Electrical Inspectors

For further information, visit iaei.org

in 2006. Election of candidates will take place during NEMA's Annual Meeting on November 14, 2005, in Washington, D.C.

The nominees for renewed three-year terms are: Brian Dundon, president and CEO, Advanced Transformer; John Estey, president and CEO, S&C Electric; Kirk Hachigian, president and CEO, Cooper Industries; Aubert Martin, president and CEO, Siemens Energy & Automation; Jean-Paul Montupet, executive vice president, Emerson; Del Nickel, president, Hoffman Enclosures; Jim Packard, chairman and CEO, Regal Beloit; Larry Powers, president and CEO, Genlyte Group; and Chuck VerMerris, president, Radix Wire.

Nominees for new terms include: Peter McIlroy, chairman and CEO, Robroy Industries, a three-year term; Enrique O. Santacana, vice president & general manager, ABB, a two-year term; and John Morgan, president and CEO, Acuity Brands, for a new one-year term.

NECA names NEMA winner of the 2005 Industry Partner Award

The National Electrical Contractors Association has named NEMA the recipient of the NECA Industry Partner Award "in recognition of decades of reciprocal cooperation and the promise of ongoing mutual support and friendship," according to NECA.

Since 1996, NECA has presented this award to recognize individuals or organizations allied with the electrical industry whose decisions, actions, or cooperation with NECA contribute to the industry's success.

As reasons for presenting NEMA with the award, NECA mentioned the association's important contributions to the electrical industry, including the collection and dissemination of reliable industry data, the publication of more than 500 electrical standards, and the ability to shape public policy in the best interest of the industry.

NECA and NEMA interact in a number of ways. Both are represented on electrical code coalitions that are active at the state and local level to promote adoption of the National Electrical Code and the rejection of conflicting codes. Both organizations work with the Electrical Safety Foundation International and similar initiatives that strive to boost accident-free use of electricity.



NECA and NEMA have been marketing partners in the National Lighting Bureau for many years. More recently, the two organizations teamed up to develop several National Electrical Installation Standards.

"NEMA is pleased to be named the recipient of this prestigious award," says NEMA President Evan Gaddis, "and we look forward to continuing our mutually rewarding relationship with NECA. The entire electroindustry benefits."

Previous winners of the NECA Industry Partner Award include the International Association of Electrical Inspectors, Underwriters Laboratories, Square D Company, and the National Fire Protection Association.

September 2005 NEMA Electroindustry Business Confidence Index

September's hurricanes, Katrina in particular, exacted a terrible toll on the Gulf Coast of the United States in terms of human suffering and property destruction. Their ultimate

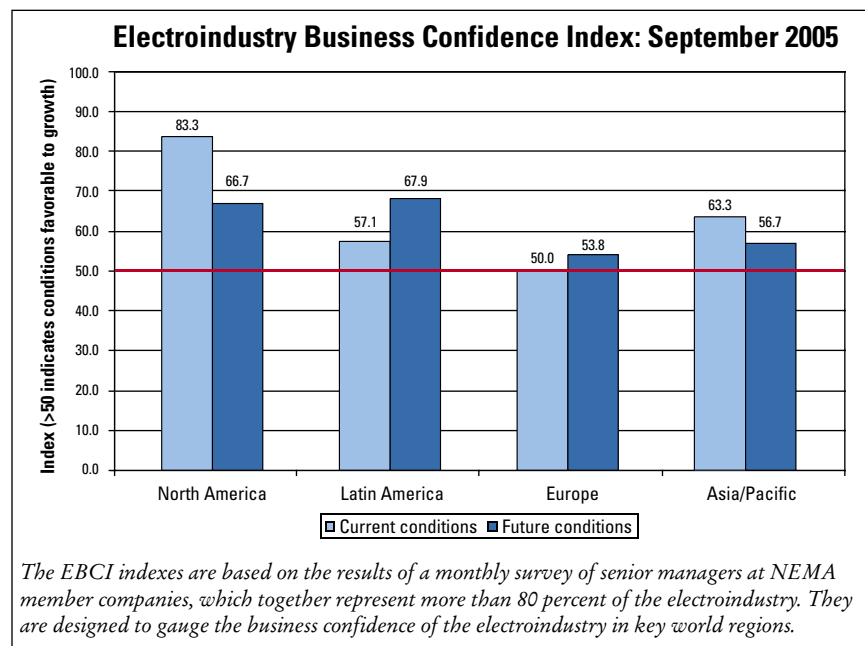
economic impact is, as yet, difficult to assess. Nonetheless, the region has already begun the recovery effort and the expected demand for equipment to aid in the rebuilding of the region has had a net positive impact on the electroindustry. NEMA's Electroindustry Business Confidence Index (EBCI) for current conditions in North America rose to 83.3 points in September¹, its highest level since April 2004. That represented a rise of nearly 17 points from the previous month's reading.

Reflecting the many questions about the longer-term repercussions of the storms, the index for future North American conditions retreated to 66.7 points from 70.4 points a month ago.

Meanwhile, confidence in both current and future conditions across the other three world regions included in the survey all reached or exceeded the 50 point growth threshold in September for the second straight month. The current conditions index for the Asia/Pacific region saw a modest increase from August, while readings for both Latin America and Europe were unchanged from a month ago. Future conditions indicators slipped for Asia/Pacific and Europe, but rallied for Latin America. ■

Tim Gill, (703) 841-3298
e-mail: tim_gill@nema.org

¹ The September survey was conducted from September 9 through September 22. Most responses were received prior to the emergence of Rita as a significant threat to land.



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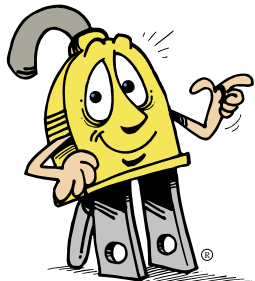
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1300 N. 17TH ST., STE. 1847, ROSSLYN, VA 22209/(703) 841-3229



NEMA to USTR on China: room for improvement

In a recent letter to the U.S. trade representative, Ambassador Rob Portman, NEMA said that while China is providing a huge opportunity for U.S. manufacturers, its policies and practices continue to pose problems for member companies.

The U.S. electrical industry continues to have fundamental concerns about intellectual property protection in China. NEMA told Portman that while the association recognizes Beijing's recent moves to address the counterfeiting problem, NEMA members "are still all too often victimized by repeated, vast trademark infringement and piracy. China needs to keep accelerating and strengthening its anti-counterfeiting measures and enforcement, particularly at the regional and municipal levels."

The association also noted that many NEMA members have concerns about the CCC (China Compulsory Certification) mark that is required for entry into the Chinese market:

- While some have been able to obtain it, they consider the process expensive and customs enforcement inconsistent. In some instances, the matter of whether the mark is actually required remains unclear.
- The CCC recognizes many electrical products only when they are built to either Chinese national (GB) standards or standards developed and published by the International Electrotechnical Commission (IEC) and the International Organization for Standardization (ISO)—even in situations where a product has already been sold there for many years.
- Exemptions for components or materials

coming into China must be obtained, even though they will soon be leaving the country as part of finished goods. Both the process for obtaining exemptions and the length of exemptions granted appear to be inconsistent in practice, the association told Portman.

NEMA also indicated that its members suspect that China is subsidizing exports to the U.S. "Since the goods in question are frequently not labor-intensively produced, there is concern that the Chinese government may be subsidizing the purchase of raw materials or providing them below cost via state-owned enterprises."

The association cited U.S. officials to encourage China to meet and keep the commitments it made upon joining the World Trade Organization. Those would include elimination of specific export subsidies and provision of full information on the pricing mechanisms of its state trading enterprises for exported goods.

Finally, NEMA said its members are concerned that China may follow Europe in imposing unjustified restrictions on the ability of manufacturers to use certain materials in products, as well as impose other burdensome requirements on manufacturers in the name of environmental protection.

*John Meakem, (703) 841-3243
e-mail: joh_meakem@nema.org*

Life after DR-CAFTA: U.S. trade agenda to be energized

Now that officials have had time for a breather following the successful but exhausting effort to win Congressional approval for the new trade agreement with Central America and the Dominican Republic, the administration and

Congress are returning to trade policy with a vengeance.

Had Congress not approved DR-CAFTA, there might not be much of a U.S. trade policy agenda. While nothing as dramatic as that final 217-215 House vote in late July is imminent, several important matters are now on the front burners.

World Trade Organization negotiations:

The run-up to the next major WTO Ministerial meeting in Hong Kong this December will be getting the most public attention. The so-called "Doha Round" of negotiations has been a non-starter thus far, with fundamental disputes over sectors such as agriculture essentially keeping talks on industrial goods from even getting started.

NEMA has been working closely with U.S. officials and reaching out to foreign counterparts in an effort to break free of the logjam via "sectoral initiatives." Whether any of this will gain any traction or not should become clear well before the ministerial actually takes place.

China: Congressional rumblings to "do something" about the Middle Kingdom will continue to fester and there will be a need to keep radical bills from advancing. Senator Chuck Schumer's (D-NY) proposal to impose 27.5 percent tariffs on all Chinese imports has received a lot of attention, but such initiatives have virtually no chance of passage.

Bilateral and regional trade negotiations:

Progress on other FTAs has been on hold for several months in deference to DR-CAFTA, with its passage now clearing the way for other work to resume. The agreement with Bahrain has already been negotiated and the administration apparently intends to present it to Congress for approval. Negotiations have resumed in earnest with other partners such as Panama, Thailand, Oman, the United Arab Emirates, three Andean countries, and a group of Southern African countries, with some deals possibly concluding by the end of the year. The negotiations with Panama and Oman are likely to be completed next and sent to Capitol Hill for approval in 2006. Rumors continue to float about negotiations starting with such countries as South Korea, Malaysia, and Egypt. Nobody has spoken seriously, however, about the moribund Free Trade Area of the Americas talks for some time.

New WTO Members: Washington has just announced the completion of its negotiations with Saudi Arabia, opening the

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way for Riyadh to become a member of the world body governing international trade in time for the Hong Kong meeting in December. Talks are also reportedly close to completion with Russia and Vietnam. Many of the details are not yet publicly available, but somewhat improved foreign market access for U.S. goods usually comes with the package.

Foreign Sales Corporation Dispute:

There has been little word from either Washington or Brussels since the mid-summer WTO ruling that last year's U.S. law to bring our FSC tax program into compliance (following on a Geneva ruling against the FSC a few years ago) simply did not suffice. Assuming the imminent U.S. appeal to the WTO will be refused, the European Union would again have the right to impose penalty tariffs on some American goods. NEMA products were minimally affected when the Europeans were permitted to impose FSC-related duties in 2004, but everything might be in play in an act two. Experts say that neither side of the Atlantic really wants to re-engage on this matter, with Brussels happy to keep this trump card in hand amidst WTO negotiations, looming Boeing-Airbus litigation, etc.

Byrd Amendment: The WTO has judged this amendment (which funnels proceeds from antidumping duties on imports to plaintiff U.S. companies) illegal, and the White House would quickly repeal it if it had the power. Congress, however, is in the driver's seat and, while there are indications that some efforts to repeal are beginning, pro-Byrd vested interests are firmly entrenched. Though practically all U.S. major trading partners are entitled to impose penalty tariffs on U.S. exports, up to now they have been doing so relatively gently.

John Meakem, (703) 841-3243

e-mail: joh_meakem@nema.org

Craig Updyke, (703) 841-3294

e-mail: cra_updyke@nema.org

NIST agrees to NEMA request to conduct 2006 standards-in-training seminar for Central American and Caribbean trading partners

The National Institute of Standards and Technology (NIST) will be hosting the seminar on electrical safety systems March 27-31, 2006, at its campus in Gaithersburg,

Maryland. NEMA had proposed the idea several months ago in the interest of facilitating regional trade in the context of the new U.S. free trade agreement with the Dominican Republic and five Central American nations (Costa Rica, El Salvador, Guatemala, Honduras, and Nicaragua). That agreement was ratified by the U.S. Congress this summer. Officials from all six of the "DR-CAFTA" countries will be invited, as will representatives from Panama. A separate free trade agreement with that country stands to be completed in the coming months.

NEMA lobbied heavily on behalf of DR-CAFTA, and is working closely with NIST in preparation for the event. It will be modeled after similar events in recent years that the association has played a role in organizing and hosting.

The countries in question, while geographically small, are already important trading partners and export markets. The Dominican Republic is the U.S. electroindustry's third most important trading partner and export market in Latin America after Mexico and Brazil, while the five Central American nations combined actually comprise a larger electroindustry trading partner and export market than Brazil.

All NEMA members are urged to participate, particularly sales and marketing representatives to these countries

Gene Eckhart, (703) 841-3204

e-mail: gen_eckhart@nema.org

Thermostat Recycling Program to conduct recycling incentive project

The Thermostat Recycling Corporation (TRC), an industry-funded program to recycle mercury-containing thermostats, will be conducting pilot projects in two states in 2006, wherein contractors who participate in the program will receive rebates to partially offset the cost of new, Energy Star® certified thermostats.

Mark Kohorst of NEMA Government Relations serves as executive director of the TRC. "Contractors who bring in end-of-use mercury thermostats to wholesalers," he says, "will be eligible to receive rebate coupons good for several dollars off the price of replacement, non-mercury thermostats. By mailing their coupons along

with proof of purchase of a new thermostat to the TRC, participating contractors will receive rebate checks that reflect the number of coupons submitted." The pilot projects, which will take place in Indiana and Oregon, are scheduled to begin in January 2006 and will continue until project funds are exhausted. NEMA is collaborating on planning and implementation activities with state government representatives and the Product Stewardship Institute, which developed the incentive pilot concept as part of its mercury reduction program. "We are hopeful that the financial benefit available to contractors through these pilot projects will lead to a substantial increase in the number of mercury thermostats recycled in the two states," says Kohorst.

Mark Kohorst, (703) 841-3249

e-mail: mar_kohorst@nema.org

U.S. TAG continues role in IEC product standards

Technical Committee 111 within the International Electrotechnical Commission continues to make progress in developing international product evaluation standards in anticipation of next summer's deadline for compliance with the European Union's Restriction on Hazardous Substances (RoHS) Directive. Mark Kohorst of NEMA Government Relations serves as secretary to a U.S. Technical Assistance Group to TC 111. The TAG consists of technical experts from both NEMA member and non-member companies. Its function is to serve as a vehicle for ensuring that U.S. interests are reflected in the international standards that TC 111 will produce.

As of now, the TAG is assisting the committee in designing standards for materials declaration, environmentally conscious design, and materials identification, i.e., product testing. Other standards may be added to the committee's purview later. An initial draft of the product testing standard is already available for review and the U.S. TAG is preparing comments for incorporation into the revised draft, which is planned for completion by December. This standard and the other TC 111 standards will be negotiated at length at the next general meeting of the IEC, to take place next month in Capetown, South Africa. ■

Mark Kohorst, (703) 841-3249

e-mail: mar_kohorst@nema.org

NTCIP funding linked to new DOT initiatives

The NTCIP transportation standards development at NEMA continues to receive Federal Highway Administration funding, but the funding is linked to new U.S. DOT initiatives.

New FY05 continuing resolution funding from FHWA totaled \$607,000 for two NEMA staff members and 12 part-time consultants to help draft and maintain the family of NTCIP standards. Some of the expert technical consultants are also the employees of member companies in the Transportation Management Systems Product Group. But much of the funding is tied to the U.S. DOT's Intelligent Transportation Systems Research Initiatives, which were first announced in 2004.

The NTCIP standards are now aligned with three of the nine research initiatives: Clarus Weather, Emergency Transportation Operations, and Integrated Corridor Management. The Clarus Weather system is a demonstration network for sharing and exchanging surface weather data and relevant surface transportation conditions to provide broader weather support to highway, transit, and rail transportation. The emergency transportation operations research will make incident responses and evacuations faster, safer, and more efficient during major events, recovery, or hazardous material incidents that involve the transportation infrastructure. The integrated corridor management initiative

will research the coordination of individual network operations between adjacent facilities (e.g., freeway and transit) to create an interconnected system capable of cross network travel management.

While the U.S. DOT's primary focus is on standards that will support the initiatives, the NTCIP communications profiles are also recognized as having wide applicability across ITS deployments, and thus will also receive funding as "crosscutting" standards.

The Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) was enacted August 10, 2005. The new law authorizes the federal surface transportation programs for the five year period 2005-2009. In the bill, Section 5307 continues development and maintenance of the national architecture and standards, using standards development organizations and a new expert advisory panel. Funding of \$110 million per year is authorized for ITS research, which includes the research initiatives and standards programs. The NTCIP activities are thus expected to receive federal assistance for another four years.

Bruce Schopp, (703) 841-3231
e-mail: bru_schopp@nema.org

Steel rigid conduit section moves ahead with standards

The NEMA Steel Rigid Conduit and Electrical Metallic Tubing Section meetings in mid-August marked several accomplishments and established plans for future activities in 2006.



Four ANSI C80 electrical metal conduit standards completed successful letter ballots during the month of August. These are the standards for ANSI C80.1, *Electrical Rigid Steel Conduit*, C80.3, *Steel Electrical Metallic Tubing*, C80.5, *Electrical Aluminum Rigid Conduit*, and C80.6, *Electrical Intermediate Metal Conduit*. Also approved by letter ballot was NEMA RN 1, *Polyvinyl-Chloride (PVC) Externally Coated Galvanized Rigid Steel Conduit and Intermediate Metal Conduit*. Each of these five standards was approved as revisions to earlier editions. The NEMA section also endorsed the initiation of two standards harmonization projects, one for electrical aluminum, red brass, and stainless steel rigid conduit, and the other for aluminum electrical metallic tubing. The projects will be conducted under the auspices of CANENA and include participants from Canada, Mexico, Costa Rica, and the United States.

The section also approved the launching of a section-sponsored, stand-alone website, which will be linked to the NEMA website and will hotlink to other websites of relevance and interest to the metal conduit industry, including the websites of member company manufacturers. The new website, which should be complete in early fall, is intended to promote the sale and use of industry products by providing vital information to the users of the various types of metal conduit products.

Section members also participated in a product and standardization strategy seminar conducted by the NEMA Technical



Services Vice President Al Scolnik. In addition, the section invited the four NEMA field representatives to attend a half-day training session designed to familiarize the field reps with the interests of the section, to exchange information on codes and standards and state, municipal, and local trends likely to affect the product markets in different regions of the country.

At meeting's conclusion, Patricia Horton, section chairperson, congratulated NEMA staff on its depth of coverage and support to the section.

John Collins, (703) 841-3244

e-mail: joh_collins@nema.org

Subcommittee on electricity metering forges ahead on data communication protocols

In late July 2005, ANSI Committee 12/ Subcommittee 17 and its four working groups met to address standards development, revisions, and other technical electricity metering issues. Terasen Gas in Surrey, British Columbia, sponsored the meeting facility. Paul Orr, NEMA program manager, and John Caskey, NEMA industry director, reported the following:

Working group 1 continues to develop a proposed draft of the Protocol Specification for Interfacing to Data Communication Networks, ANSI C12.22-200x.

Working group 2 is revising ANSI C12.19-1997, *Utility Industry End Device Data Tables*. ANSI C12.19 defines a table structure for utility application data to be passed between an end device and a computer. The standard does not define device design criteria nor specify the language or protocol used to transport that data. The tables define structures for transporting data to and from end devices. Present revisions are nearing the editorial stage.

Working group 3 is developing a new draft standard, ANSI C12.23-200x. The scope of the draft standard is intended to cover automated meter reading (AMR) device compliance test requirements. Automated meter reading includes devices, equipment, and systems used in meter reading and data collection over public or private networks. This work also involves work on ANSI C12.18.

Working group 4 is revising ANSI C12.18-1996 (R2002), *Protocol Specification for ANSI Type 2 Optical Port*, and ANSI C12.21-1999, *Protocol Specification for Telephone Modem*



Communication, to keep these standards up to date with communication technologies of present power metering devices and the host utility. C12.18 details the criteria required for communications with an electric power metering device by another device via an optical port. C12.21 details the criteria required for communications between an electric power metering device and a utility host via a modem connected to the switched telephone network. The utility host could be a laptop computer, a master station system, an electric power metering device, or some other electronic communications device.

Proposed revisions and associated ballots to ANSI C12.18 and C12.21 are soon to be circulated for comment and voting for ANSI recognition.

Paul Orr, (703) 717-5658

e-mail: pau_orr@nema.org

Comber appointed secretary IEC surge arresting group

Michael Comber was recently appointed secretary of the IEC TC 37 Committee for Surge Arresters. He is currently engineering manager of Hubbell Power Systems' Ohio Brass Business Unit, responsible for design, development, and engineering of high voltage surge arresters and insulators. Comber replaces Joseph Koepfinger, who completed his term and stepped down after many years of dedicated service.

Jonathan Woodworth was appointed as technical advisor to the U.S. Technical Advisory Group for TC 37. He is currently the arrester engineering manager of Cooper

Power Systems and replaces Comber on the advisory group.

Scott Choinski, (703) 841-3253

e-mail: sco_choinski@nema.org

NEMA releases revised polyethylene conduit standard

NEMA has released TC 7-2005, *Smooth-Wall Coilable Electrical Polyethylene Conduit*, revised for the first time since 2000. This standard covers the following types of electrical high-density polyethylene (HDPE) conduit designed for applications below ground, either concrete encased applications or direct burial: EPEC-A, EPEC-B, EPEC-40, and EPEC-80.

Members of the Plastic Pipe Institute (PPI) worked with NEMA members to harmonize NEMA TC 7—for electrical, communication, and signaling applications—with ASTM F2160, *Solid Wall High Density Polyethylene (HDPE) Conduit Based on Controlled Outside Diameter*.

"NEMA TC 7 is used by utility and communication companies when specifying HDPE raceways," says David Kendall, director of industry affairs for Carlon, Lamson & Sessions, and chairman of NEMA's Polymer Raceway Section. "This standard is vital because it includes technical information supplied to the members by users and inspectors to ensure that the HDPE Raceway is safe and durable."

TC 7-2005 may be purchased for \$47.00 by visiting <http://www.nema.org/stds/tc7.cfm>, or by contacting Global Engineering Documents at (800) 854-7179 (within the U.S.), (303) 397-7956 (international), or (303) 397-2740 (fax). ■

Factory output maintains steady pace of growth in August

	Jun 2004	Jul 2004	Aug 2004	Jun 2005	Jul 2005	Aug 2005
INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION						
Industrial production, manufacturing (Index, 1992 = 100)	116.9	117.8	118.3	121.2	121.3	121.7
Percent change, year over year				3.7%	3.0%	2.9%
Industrial production, electrical equip., (Index, 1992 = 100)	86.8	88.4	89.0	88.5	90.0	—
Percent change, year over year				2.0%	1.8%	—
Capacity utilization, manufacturing (percent)	76.5	77.0	77.2	78.3	78.3	78.4
Purchasing Managers' Index (value > 50 indicates expanding economy)	61.2	61.6	59.6	53.8	56.6	53.6
CONSTRUCTION						
Housing starts, single family (thousands of units, SAAR)	1.526	1.661	1.689	1.716	1.707	1.709
Percent change, year over year				12.5%	2.8%	1.2%
Housing starts, multi family (thousands of units, SAAR)	0.301	0.325	0.336	0.349	0.328	0.300
Percent change, year over year				15.9%	0.9%	-10.7%
Nonresidential construction, Lodging (billions of dollars, SAAR)	11.671	11.993	12.484	11.368	11.653	—
Percent change, year over year				-2.6%	-2.8%	—
Nonresidential construction, Office (billions of dollars, SAAR)	33.368	34.324	32.734	34.252	33.914	—
Percent change, year over year				2.6%	-1.2%	—
Nonresidential construction, Commercial (billions of dollars, SAAR)	62.174	64.09	62.995	64.469	65.415	—
Percent change, year over year				3.7%	2.1%	—
Nonresidential construction, Healthcare (billions of dollars, SAAR)	27.193	27.498	27.144	28.233	29.287	—
Percent change, year over year				3.8%	6.5%	—
Nonresidential construction, Communication (billions of dollars, SAAR)	12.628	13.051	13.557	13.969	14.115	—
Percent change, year over year				10.6%	8.2%	—
Nonresidential construction, Electric Power (billions of dollars, SAAR)	22.884	24.688	25.518	24.592	24.830	—
Percent change, year over year				7.5%	0.6%	—
Nonresidential construction, Manufacturing (billions of dollars, SAAR)	20.927	22.481	22.819	28.074	26.651	—
Percent change, year over year				34.2%	18.5%	—
EMPLOYMENT						
Employment, electrical equipment, NAICS 335 (thousands)	446.8	447.3	447.7	440.1	439.7	438.6
Percent change, year over year				-1.5%	-1.7%	-2.0%
Unemployment (percent, SA)	5.6	5.5	5.4	5.0	5.0	4.9
PRICES AND INTEREST RATES						
Consumer price index (percent change, prior period)	0.3	-0.1	0.1	0.0	0.5	0.5
Percent change, year over year				2.5	3.1	3.6
Producer price index, finished goods (percent change, prior period)	-0.1	0.1	0.1	0.0	1.0	0.6
Percent change, year over year				3.6	4.6	5.1
Interest rate, 3-month Treasury (constant maturity, annual yield)	1.29	1.36	1.50	3.04	3.29	3.52
Interest rate, 10-year Treasury (constant maturity, annual yield)	4.73	4.50	4.28	4.00	4.18	4.26
Spread (10-year yield minus 3-month yield)	3.44	3.14	2.78	0.96	0.89	0.74
MANUFACTURERS' SHIPMENTS AND INVENTORIES						
Value of Shipments: Electric Lighting Equipment (billions of 1996 dollars, SA)	0.963	1.043	1.013	1.013	1.021	—
Percent change, year over year				5.2%	-2.1%	—
Value of Shipments: Electrical Equipment (billions of 1996 dollars, SA)	2.711	2.787	2.825	2.993	3.043	—
Percent change, year over year				10.4%	9.2%	—
Value of Inventories: Electric Lighting Equipment (billions of 1996 dollars, SA)	1.497	1.495	1.502	1.519	1.510	—
Percent change, year over year				1.5%	1.0%	—
Value of Inventories: Electrical Equipment (billions of 1996 dollars, SA)	3.983	4.026	4.056	4.300	4.335	—
Percent change, year over year				8.0%	7.7%	—
Inventory to Shipment Ratio: Electric Lighting Equipment (billions of 1996 dollars, SA)	1.555	1.433	1.483	1.500	1.479	—
Percent change, year over year				-3.5%	3.2%	—
Inventory to Shipment Ratio: Electrical Equipment (billions of 1996 dollars, SA)	1.469	1.445	1.436	1.437	1.425	—
Percent change, year over year				-2.2%	-1.4%	—

SA—Seasonally Adjusted SAAR—Seasonally Adjusted Annual Rate

Tim Gill, (703) 841-3298; e-mail: tim_gil@nema.org

Gaddis... from page 1

be prudent, calculated risk.” He also said he believes that leading is a “recipe of eight parts listen and two parts speak.”

Gaddis, whose experience in the Army included running the service’s community recreation and business facilities with 34,000 employees, said the skills required for managing an organization like NEMA are the same. “Values are what’s important,” he said. “Integrity and loyalty top the list. NEMA companies are competitors. We need

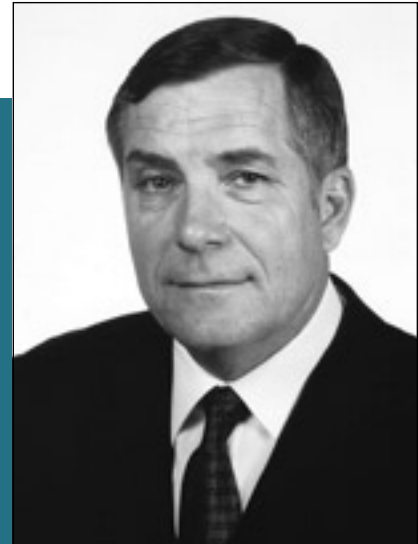
Army is having today, that is, being unable to attract the quantity and quality of recruits we wanted. I was asked to turn that situation around, raising the quality of our recruiting program, and getting funding for it, and shaping the message to potential recruits. It required testimony before Congress, of course, and many meetings with other stakeholders in Washington. I’m happy to say we were just as successful in that effort as we at GAMA were in helping enact a sensible energy policy act.”

industry, and move accordingly.”

Asked if China and India represent threats to the industry, he said, there was no doubt. “No industry can afford to ignore what’s happening in that part of the world. But that is not the only threat. We need to keep our eyes on Europe, Brazil, and other economic powerhouses. In the information age, you have to be nimble, react quickly. Things change at a much more rapid pace than they did just a few years ago.”

“As the strategic plan implies, however, we need to focus our attention on understanding the forces of globalization, its impact on our industry, and move accordingly.”

—Evan Gaddis



to be honest with all of them, find a consensus, and move forward. Further, integrity in our dealings with the Congress, the regulatory agencies, and other policy-making institutions is vital. The more trust you build, the easier it is to get things done.”

Asked to name some highlights of his experience in Washington, Gaddis first mentioned his work on the Energy Policy Act of 2005. “Although GAMA was obviously concerned with gas,” he said, “our priorities were essentially the same as NEMA’s and we worked that issue very hard, often right alongside NEMA’s staff and members.”

“The highlight of my Army work in Washington was perhaps my experience as commander of Army recruiting,” said Gaddis. “A number of years ago, we were having some of the same issues the

Gaddis said his early objective at NEMA is very straightforward. “I want to do exactly what the board has asked us to do. The NEMA strategic plan is a thoughtful, well-articulated document. I feel privileged the board has placed its faith in me to implement it. I also intend to visit member companies and develop a full understanding of what they expect from the association. There is no doubt that the strategic plan will change as circumstances warrant, but I’ve got some pretty clear marching orders.”

“The most challenging part of the strategic plan,” according to Gaddis, “may well be successfully integrating NEMA into the global marketplace. In the past, NEMA was focused on North America, and rightly so. As the strategic plan implies, however, we need to focus our attention on understanding the forces of globalization and its impact on our

Gaddis was asked to name some people who might have influenced his life. It was the only question he had difficulty answering. “There have been so many, it is tough to say. Colin Powell is a man for whom I’ve always had great respect. The great entrepreneurs have always intrigued me. People like Andrew Carnegie, who, in addition to being a great industrialist, funded libraries all across the country. Henry Ford was another. His contribution to business and to making the U.S. an economic superpower cannot be underestimated. But, truthfully, I’ve been influenced by so many people, to whom collectively I owe a great debt. Too many to name.”

To conclude the interview, Gaddis was asked to define leadership in 25 words or less. In his characteristically succinct way, he took six: “Vision, leadership, honor, integrity, dedication, selflessness.” ■

Kite and Key... *from page 3*

from those used in molded case circuit breakers to those used in an 1100 kV substation. He was also responsible for the development of safety labeling, publication of operating and maintenance manuals for FCI products, development and maintenance of technical documentation, and serving on policy-making bodies of product certification agencies. Within North America, Lai is or has been either the chairman, or effectively the leader, of every key standards group for FCI connectors in North America.

Lai is a past chairman of NEMA's Electrical Connector Section and led the development of NEMA's CC 1 standard for connectors used worldwide in electrical substations. He is the vice chair of ANSI Accredited Standards Committee C119, *Connectors for Electrical Utility Application*, and he is also vice chair for two of the subcommittees under C119.

Lai represents NEMA on

National Electrical Code® Code-Making Panel 5 for the National Fire Protection Association, is a member of several standards technical panels for Underwriters Laboratories, and is the deputy technical advisor for International Electrotechnical Commission Subcommittee 23F. He serves on AE-8C1 and 8C2 on connectors and terminating devices for the Society of Automotive Engineers, the IEEE Distribution Subcommittee, the International Association of Electrical Inspectors, and the NEMA-UL Policy Committee.

William L. Russell

William Russell has been an active member of NEMA's Transportation Management Systems and Associated

Controls Devices Product Group since he joined the industry in 1967.

Russell's extensive experience in leading technology development programs, strategic planning, marketing, and working closely with the private and public sectors, is widely recognized in the industry.

Russell has had a distinguished career working in increasingly responsible positions at companies such as Econolite Controls, Traffic Control Corporation, Peek Traffic USA, Image Sensing Systems, and currently as president and chief executive officer of Eberle Destin in Phoenix, Arizona.

He serves on the board of directors of the Intelligent Transportation Society of America and is the immediate past chairman of NEMA's Transportation Management Systems and Associated Controls Devices Product Group. In this latter role, he revitalized the product group with aggressive marketing programs and key standardization projects with the U.S. Department of Transportation. ■

North Carolina... *from page 9*

Code Council on the grounds that it violates due process, lacks substantial evidence, and was arbitrary and capricious, and further asks that the matter be remanded to take additional testimony.

The North Carolina Electric Code regulates the installation of conductors and equipment that connect to the supply of electricity and establishes that conductors and equipment are permitted by the electric code only if approved by a third party certification agency approved by the Building Code Council. The Building Code Council's decision held that the warp knitting machine was not "equipment" as defined by North Carolina Electric Code, and therefore did not need to be listed by an approved certification entity.

"Equipment" is defined in the Electric Code as a "general term including material fittings, devices,

"Equipment" is defined in the Electric Code as a "general term including material fittings, devices, appliances, luminaries (fixtures), apparatus, and the like used as a part of, or in connection with, an electrical installation."

appliances, luminaires (fixtures), apparatus, and the like used as a part of, or in connection with, an electrical installation." The Building Code Council's order

parsed the definitions of equipment components and types such as "fittings," "devices," "appliances," and "luminaires," and concluded that the knitting machine did not fit within any of these defined terms.

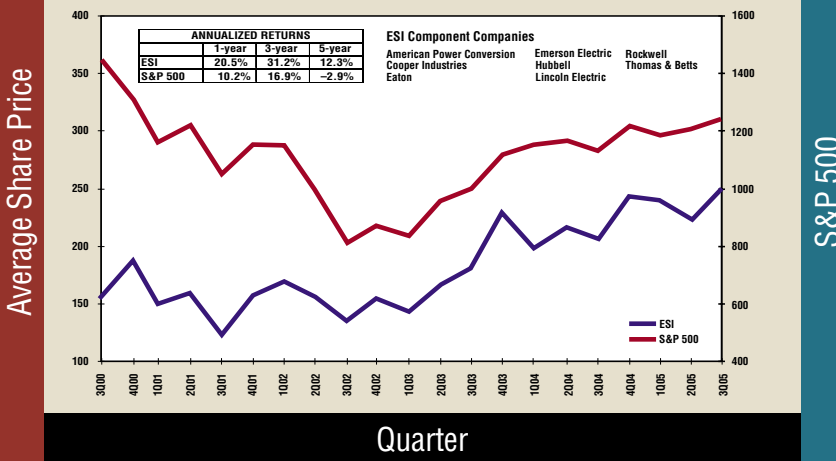
NEMA Field Representative John Minick, who has been following this proceeding, notes that the North Carolina Building Code Council's decision is at odds with the common understanding of the National Electric Code nationwide. "This decision would establish a substantial loophole in North Carolina's electrical safety inspection scheme," he observes. "It is commonly understood that machines of this type are 'equipment,' and that the electrical system of the machine is subject to inspection and conformity requirements. The Electric Code is clear that equipment is a 'general term' and includes 'apparatus and the like used as a part of, or in connection with, an electrical installation.'" ■

Electroindustry Stock Index rebounds to another record level

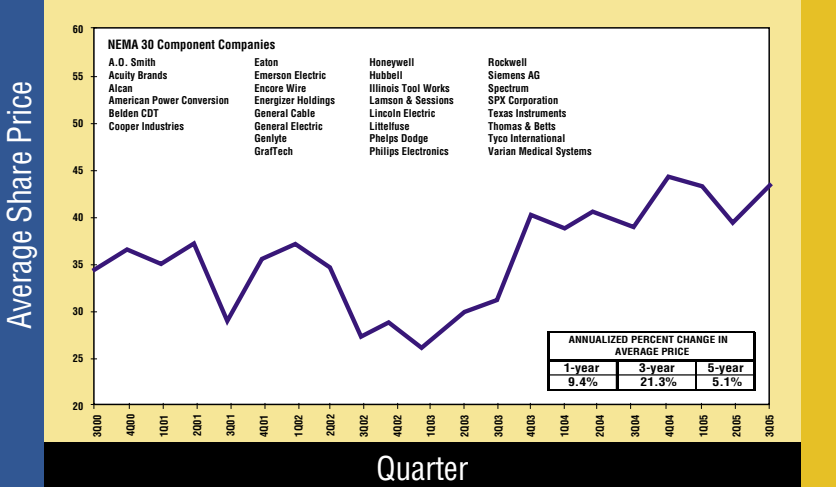
NEMA's Electroindustry Stock Index (ESI) attained a record level of 249.9, a gain of 12.0 percent for the third quarter of 2005, resurging from a second quarter contraction of 7.1 percent. The previous record of 242.1 was set in the fourth quarter of 2004. When comparing second and third quarters, the ESI bested the S&P 500 index by nearly a factor of four. Despite a robust 10.2 percent gain over the same period last year by the S&P 500 index, the ESI doubled the S&P 500 by gaining 20.5 points. Moreover, the three- and five-year returns of the ESI have outperformed the S&P 500 by 14.3 and 15.2 percentage points, respectively. Underpinning this performance are the positive gains from all of ESI's component stock values. The market capitalization for four of the eight stocks demonstrated double-digit rates of growth in a quarter-to-quarter comparison.

Stacey Harrison, (703) 841-3269
e-mail: sta_harrison@nema.org

Electroindustry Stock Index vs. S&P 500



NEMA 30 Average Share Price



This economic analysis is provided by NEMABIS, a business information service providing analysis and forecasting tools to the electrical industry.



Editor in Chief

Rae Hamilton703/841-3256

Managing Editor

Natalie Fern ..nlfern@worldnet.att.net

Contributing Editors

Imola Ekart703/841-3283

Edith Kolodny-Nagy .703/841-3225

Jason Peak703/841-3222

Cheryl Smith703/841-3286

Design and Production

The Magazine Group202/331-7700

Chad Townsend, Art Director

DEPARTMENT EDITORS

Spotlight on the Economy

Tim Gill703/841-3298

Standardization Trends

Al Scolnik703/841-3282

Washington Report

Kyle Pitsor703/841-3274

ADVERTISING

National Advertising Director

Holly Townsend301/215-6710

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