



TÜV RHEINLAND'S MONTHLY NEWSLETTER ON FIELD EVALUATION SERVICES

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ROBOTICS AND AUTOMATED SYSTEMS IN THE NEWS

Robotics and automated systems present unique challenges during a product safety field evaluation. Many industries have abandoned the idea of stationary robotics in favor of a mobile platform using either lead acid or lithium ion batteries as the power source. Battery power may reduce the risk of electric shock compared to higher voltage equipment, but the risk of fire still a great concern. For manufacturers or workplace owners it is extremely important that these risks be evaluated. TÜV Rheinland is a leader in the mobile robotics testing industry and has the expertise to evaluate and certify all types of equipment.

FOR ATTLEBORO MA COMPANY, ROBOTS A FACT OF LIFE

At Attleboro-based Sensata Technologies, engineers have been using robotics in various forms for decades to assemble and test high-tech products.

[Read more](#)

ROBOT KILLS A WORKER AT GERMAN VOLKSWAGEN FACTORY

An automotive assembly line robot killed a worker at a car factory in Germany this week, a prosecutor's office said. The man, 21, was installing the robot at a Volkswagen assembly line.

[Read more](#)

MEET THE ROBOT THAT BUILDS ROBOTS

Researchers at the University of Cambridge have created a robot that is able to design and build new robots. Using the process of natural selection, this "mother robot" will test its "children," and from those tests, design even better ones.

[Read more](#)

'KILLER ROBOTS' COULD TRIGGER NEW ARMS RACE

Do we want robots to have the final decision about who lives and who dies in military conflict zones? This is a question generating intense discussion amongst the world's nations and militaries at the United Nations.

[Read more](#)



Top Product Safety Recalls

Osram Sylvania recalls LED-based T8 tubes for potential burn hazard

MiWorld Accessories Recalls Plug-in Wall Chargers for iPhones Due to Fire Hazard

Robert Bosch Tool Recalls Dremel Rotary Tool Due to Burn Hazard

Trane and American Standard Recall Accessory Heaters Due to Fire Hazard

IKEA Recalls Children's Nightlight Due to Electrical Shock Hazard

EE recalls Power Bar battery packs after explosion in student's bedroom

Olympus recalls Digital Cameras, Risk of Shock – Health Canada



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NFPA 70E TRAINING – DO YOU NEED TO BE COMPLIANT?

TÜV Rheinland offers training and certification sessions on NFPA 70E Compliance for work place and arc flash safety. The Electrical and Arc Flash Safety training program can provide information needed to comply with the new standards. Each training-program participant receives comprehensive classroom reference manuals and a certification of completion.

[Find out more](#)

TÜV RHEINLAND ACCREDITATIONS

- [US OSHA Accreditation](#)
- [Canadian SCC Accreditation](#)

WHY LITHIUM BATTERIES KEEP CATCHING FIRE

In the past year rechargeable batteries containing the element lithium have been in the headlines for all the wrong reasons. Investigators in Japan are investigating why a lithium-ion battery overheated on a Boeing 787 Dreamliner at Narita airport.

[Read more](#)



ELECTRICAL BLAST IN DOWNTOWN L.A. INJURES 4, KNOCKS OUT POWER TO 13 HIGH-RISES

Four people were injured and a downtown office building was red-tagged by safety officials Thursday night after an explosion in a high-rise

basement knocked out power in the area and sent smoke billowing into the street.

[Read more](#)

FEDERAL LAW FOR THE WORKPLACE

What are the regulations for non-certified electrical equipment? Here are some resources and interpretation letters that will help explain

- [29CFR1910.399 - Definitions](#)
- [29CFR1910.303a - Subpart S -- Electrical](#)
- [OSHA Interpretation Letter - All Equipment Must be NRTL Approved](#)
- [OSHA Interpretation Letter - All Equipment Must be NRTL Approved \(2\)](#)
- [OSHA Interpretation Letter - Industrial Machinery is Electrical Equipment](#)
- [OSHA/US DOL Bulletin: Certification of Workplace Products by Nationally Recognized Testing Labs](#)

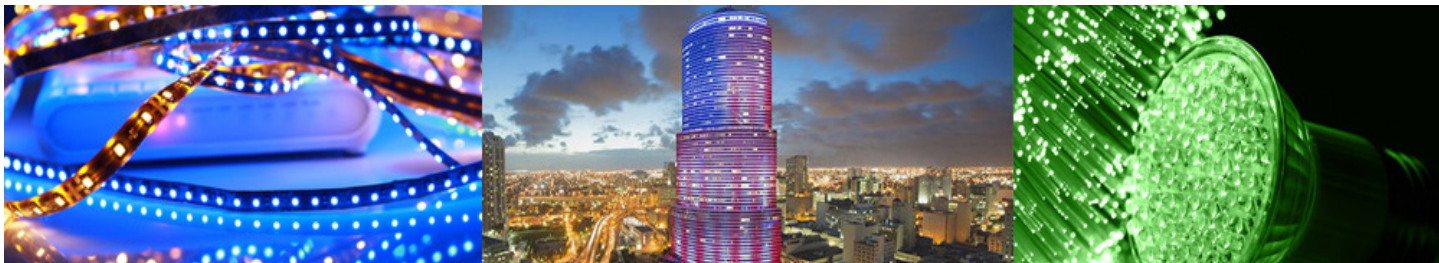


GREG SMITH JOINS TUV RHEINLAND AS SR. FIELD EVALUATION SERVICES INSPECTOR

Over 23 years in the testing laboratory business, Greg has been a Product Safety Field Evaluation Inspector at MET Laboratories Southeast office in North Carolina, and had major roles in sales, NRTL / ISO accreditations. In his new position at TÜV Rheinland, Greg will be performing inspections with the Field Evaluation team, and serve as a

resource for technical and customer support.

Greg served as President 2011-2012 North Carolina Chapter International Association of Electrical Inspectors, and currently sits on the Board of Directors for the North Carolina Association of Electrical Contractors.



Field Evaluation of Lighting products and LED systems has several challenges (LED Image) Lighting is everywhere, so common we take it for granted. Necessary and beautiful, an important part of our lives. Hazards exist from lighting products without product compliance testing, so let's make sure our lighting is safe. LED's (Light Emitting Diodes) represent great advancement in low voltage, brightness and energy savings, and hazards still exist. Find out more about electrical and product safety needed for the lights of your life. Check back next month for a special issue and meet your TUV Rheinland LED and Lighting Experts



TESLA ROLLS OUT BATTERIES THAT STORE SUN'S ENERGY FOR NIGHTTIME

SolarCity began offering to pair its rooftop solar systems with batteries made by electric car maker Tesla Motors. Rive's cousin, entrepreneur Elon Musk, is the CEO of Tesla and SolarCity's chairman and biggest shareholder. Tesla is building a \$5 billion battery "gigafactory" in Nevada.

[Read more](#)

PHYSICISTS ANNOUNCE GRAPHENE'S LATEST COUSIN: STANENE

Two years after physicists predicted that tin should be able to form a mesh just one atom thick, researchers say that they have made it. The thin film, called stanene, is reported on 3 August in *Nature Materials*. But researchers have not been able to confirm whether the material has the predicted exotic electronic properties that have excited theorists, such as being able to conduct electricity without generating any waste heat.

[Read more](#)

CANADIAN FIRM PATENTS INFLATABLE SPACE ELEVATOR

In space travel, the first step is always the most expensive, but why blast-off in a rocket if you can catch a ride on a space elevator? Canadian space firm Thoth Technology has received a US patent for an elevator to take spacecraft and astronauts at least part way into space.

[Read more](#)

SAMSUNG INTRODUCES NEW 3D NAND CHIP

Samsung Electronics Co., Ltd., the world leader in advanced memory technology, today announced that it has begun mass producing the industry's first 256-gigabit (Gb), three-dimensional (3D) Vertical NAND (V-NAND) flash memory based on 48 layers of 3-bit multi-level-cell (MLC) arrays for use in solid state drives (SSDs).

[Read more](#)



Our November Issue will highlight electrical safety challenges for 3-D printing systems. This new and exciting technology is on the forefront of prototyping and manufacturing. TUV Rheinland is ready to Field Evaluate and Certify these innovative products.

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