

Field Evaluation Services Newsletter

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EDGE
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BLOG**

OCTOBER 2015



TÜVRheinland®
Precisely Right.



LED & LIGHTING FIELD EVALUATION



During the early use of LEDs in lighting, we encountered many problems in the Field Evaluation including custom non-certified power supplies, abnormal heating of the LEDs due to inadequate thermal dissipation, and use of unapproved components. These were serious concerns and could lead to potential safety hazards. Standards Technical Panel members of various Standards Development Organization recognized these issues and submitted proposals to introduce new standards such as UL 8750, Light Emitting Diode (LED) Equipment for Use in Lighting Products and modify existing requirements in many safety standards such as UL 2108, Low-Voltage Lighting Systems and UL 1598, Luminaires

to address the use of LEDs in Lighting products in order to minimize such issues. This required manufacturers to comply with the requirements and has reduced some problems in the field. LED arrays, packages, modules and LED Drivers powering these components are being approved to UL 8750.

Although some issues were addressed, other issues related to use of incompatible components such as dimmers/controllers and misuse and incorrect loading of power supplies still exist. NEC Article 411, Lighting Systems Operating at 30 Volts or Less, requires these lighting systems to be listed or be assembled from listed parts such as, power supplies, luminaire fittings, cables and cords. Branch circuit protection and secondary circuits as well appropriate wiring methods are addressed. Enforcement of Article 411 by AHJs helps minimize specific problems in the field. [Contact your TÜV Rheinland experts for more information.](#)



FES BLOG

Electronics and electrical equipment are everywhere these days, both at home and in the workplace. At home most of our consumer products have been tested and certified, mainly because major stores will usually not buy or sell non-certified products.

Our workplaces are a different story! It is not illegal in North America to import or purchase non-certified equipment, but it is a violation of Federal Law (OSHA / DOL) for the workplace.

[READ THE LATEST AT OUR BLOG](#)

Top Product Safety Recalls

-  [Philips recalls 99,000 LED lamps](#)
-  [TCP Recalls Connected Brand Downlights](#)
-  [BSH Home Appliances Recalls Dishwashers](#)
-  [Segway Recalls Off-Board Chargers for Personal Transporters](#)
-  [CleggPromo Recalls CPB-100 Power Banks](#)
-  [Kenwood Ltd. recalls ETL Listed Kenwood Blender Blend-X PRO BLM800](#)
-  [Panasonic Metal Cutter Saw Kit and Metal Cutter Combo Kit](#)
-  [UL Warns of Unauthorized UL Mark on USB Wall Charger](#)
-  [Fujitsu Recalls Battery Packs for Notebooks](#)
-  [Cree Recalls LED T8 Lamps](#)



Fire/Burn Hazard



Shock Hazard



Counterfeit Mark



Laceration Hazard

LED AND LIGHTING NEWS

PHILIPS RECALLS HALOGEN BULBS DUE TO LACERATION AND BURN HAZARDS

LEDs THAT USE VISIBLE LIGHT CAN TALK TO EACH OTHER AND THE INTERNET

INDIA TO RETROFIT 35 MILLION STREET LIGHTS WITH LEDS

FLORIDA STATE RESEARCHER DEVELOPS CHEAPER, BETTER LED TECH

EXPLOSION AT ELECTRICAL SUBSTATION IN NEW JERSEY

ELECTRICAL AND WORKPLACE INCIDENTS

CHILD BADLY BURNED AFTER APPARENT ELECTRICAL EXPLOSION

TRANSFORMER EXPLOSION IN SAN FRANCISCO SENDS TWO MEN TO HOSPITAL



NEW DATES!

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.

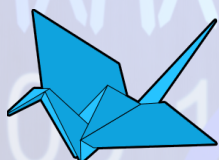
[FIND OUT MORE](#)

3D PRINTING SYSTEMS

3-D printing, or “Stereo Lithography” is an exciting new field now affecting many areas of our lives, from manufacturing to medical. TÜV Rheinland is currently involved in several Certification and Field Evaluation projects with this revolutionary technology. Next month’s newsletter will feature an introduction from our experts.



3D-PRINTED HEART SAVES BABY’S LIFE



4-D PRINTING TECHNOLOGY ALLOWS SELF-FOLDING OF COMPLEX OBJECTS



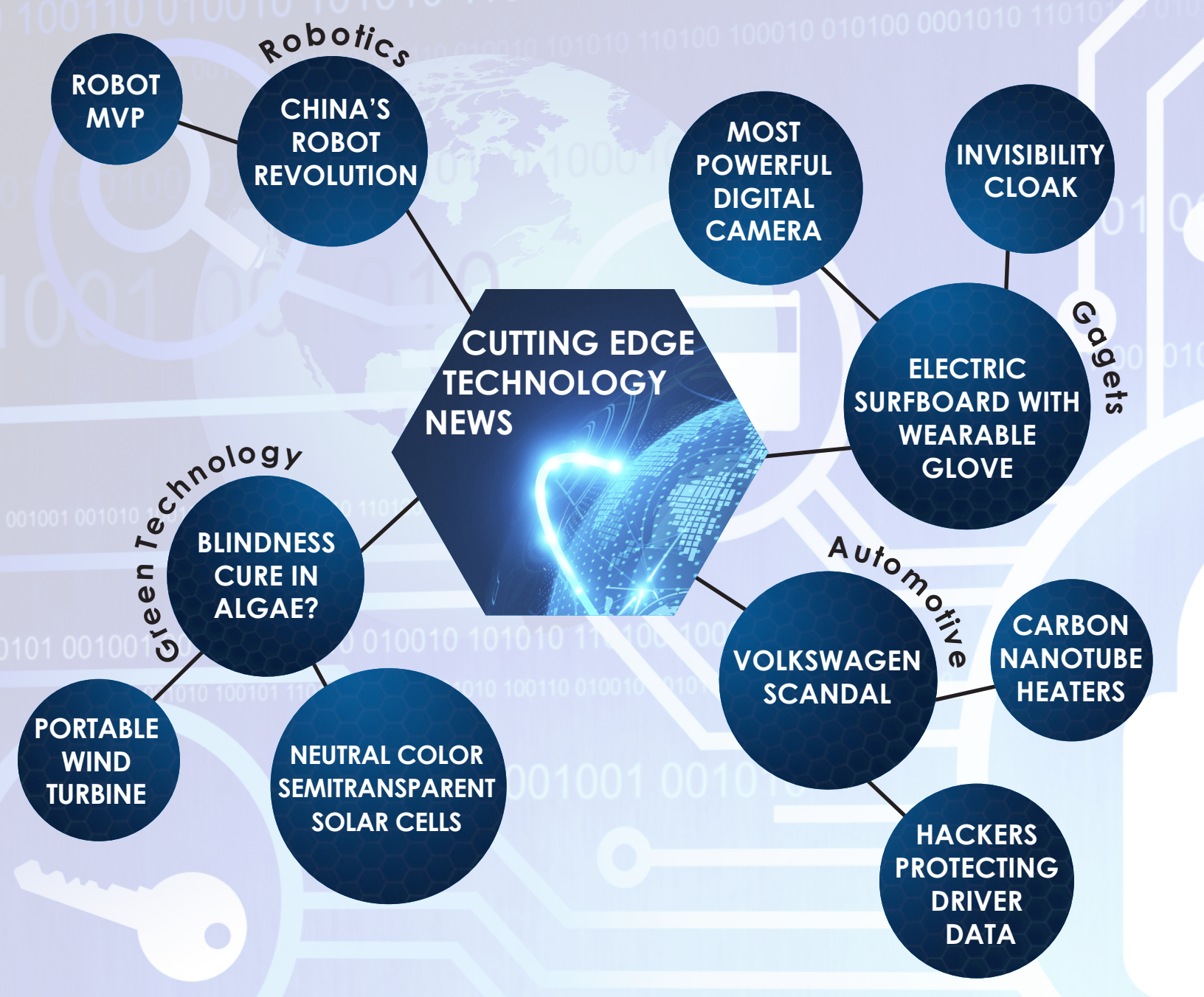
SEE THIS DELICATE JELLYFISH 3D PRINTED IN SELF-HEALING GEL



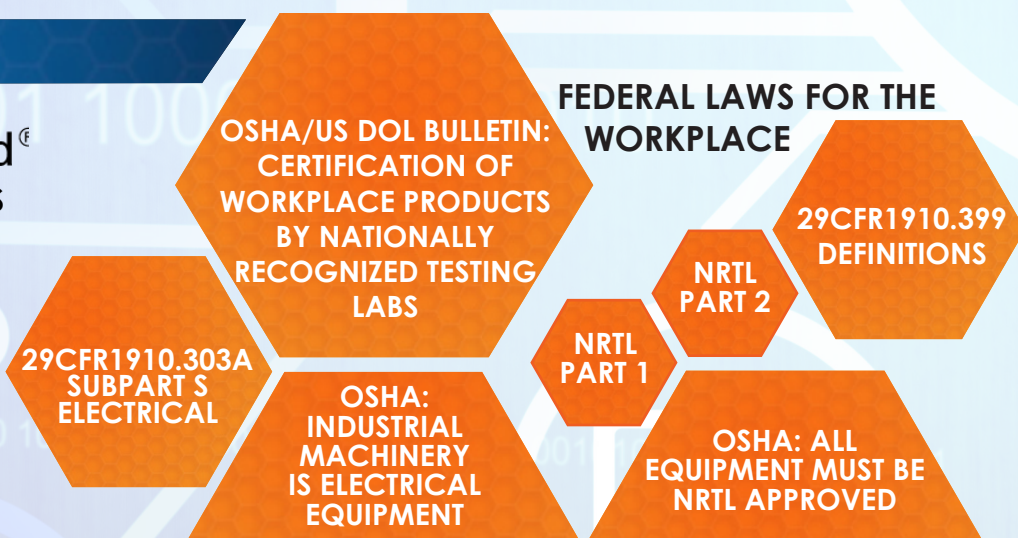
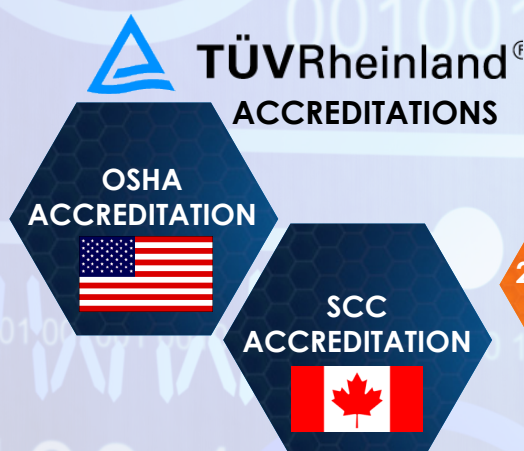
IT TOOK 100 HOURS TO PRINT THIS 2-BEDROOM VILLA

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