# Ticona Engineering Polymers
# News Release

**Contacts:**

Americas:
David Perilstein, Press Relations
+1-518-479-7632
Dperilst@nycap.rr.com

Americas:
Robert Shaw, Manager, B2B Marketing Communications
+1-859-372-3117
Robert.Shaw@Ticona.com

Europe:
Henning Küll, Public Relations Manager
+49-69-45009-1797
Henning.Kuell@Ticona.de

Asia:
Amber Zhao, Marketing Communications
+86-21-3861-9222
tong.zhao@ticona.com

*Americas*
8040 Dixie Highway
Florence, Kentucky 41042, USA

*Europe*
Am Unisyspark 1
65843 Sulzbach, Germany

*Asia*
4560 Jinke Road
Shanghai 201210, P.R. China

## Ticona to Present Unidirectional Glass Tapes 'Best Paper' at 2012 SPE® ACCE

**Florence, Ky., Sulzbach, Germany, Shanghai, PR China, Sept. 9, 2012** – Ticona, a leading supplier of engineering polymers, is presenting a 2012 Best Paper Award Winner on unidirectional glass tapes during the Society of Plastics Engineers (SPE®) Automotive Composites Conference & Exhibition (ACCE) Sept. 11 to 13 at the MSU Management Education Center in Troy, Mich.

Duane Emerson, a senior applications engineer – Composites Strategic Programs Group at Ticona, will present ***Using Unidirectional Glass Tapes to Improve Impact Performance of Thermoplastic Composites in Automotive Applications*** from 8:30 to 9 a.m. on Thursday, Sept. 13, in the Advances in Thermoplastic Composites session, Amphitheater 101.

The paper describes a study conducted by Ticona that looked at methods to increase stiffness/strength and impact resistance of an automotive underbody shield (UBS) by using continuous strand, unidirectional (UD) glass-reinforced thermoplastic composite tapes to produce woven fabrics as well as tailored blank laminates. Combinations of the tape fabrics and the tape laminates in various layup patterns were then used in conjunction with charges produced in the direct-long-fiber thermoplastic (D-LFT) inline compounding (ILC) process to compression mold both test plaques and later the UBS part to determine the extent to which impact performance could be improved and to ensure cycle times were consistent with automotive production requirements.

The organizing committee for the 2012 SPE ACCE will present the top award for excellence in technical writing to Emerson during the opening ceremonies on Tuesday, Sept. 11.

Ticona also will exhibit thermoplastic solutions for composites used in light and tough components:

- Celstran® long fiber reinforced thermoplastics (LFRT) for weight reduction and parts/component integration applications
- Celstran® continuous fiber reinforced thermoplastics (CFR-TP) tapes, rods and profiles for highly stressed components
- Fortron® polyphenylene sulfide (PPS) with proven production performance in critical structural components

The Ticona portfolio of high-performance engineering polymers for automotive fuel system, electronic, energy storage, powertrain and thermal management applications, also includes:

- Factor® and Compel® LFRT
- Celanex® thermoplastic polyester (PBT)
- GUR® ultra-high molecular weight polyethylene (UHMW-PE)
- Hostaform® / Celcon® acetal copolymer (POM)
- Thermx® polycyclohexylene dimethylene terephthalate (PCT)
- Vectra® / Zenite® liquid crystal polymer (LCP)

Ticona encourages you to visit www.ticona.com/composites. Read how Ticona engineering polymers offer a spectrum of advanced properties that are helping automotive original equipment manufacturers and tier suppliers improve quality while reducing weight and lowering production costs.

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### *About Ticona and Celanese*

*Ticona, the engineering polymers business of Celanese Corporation, produces and markets a broad range of high performance products, and posted net sales of $1,298 million in fiscal 2011. Ticona employs more than 1,500 individuals at production, compounding and research facilities in the USA, Germany, Brazil and China. For more information, please visit www.ticona.com or www.ticona.cn (Chinese language).*

*Celanese Corporation is a global technology leader in the production of specialty materials and chemical products that are used in most major industries and consumer applications. Our products, essential to everyday living, are manufactured in North America, Europe and Asia. Known for operational excellence, sustainability and premier safety performance, Celanese delivers value to customers around the globe with best-in-class technologies. Based in Dallas, Texas, the company employs approximately 7,600 employees worldwide and had 2011 net sales of $6.8 billion, with approximately 73% generated outside of North America. For more information about Celanese Corporation and its global product offerings, visit www.celanese.com or the company's blog at www.celaneseblog.com.*