



News Release

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Contact: Scott Lusk, (202) 288-3233

Email: scott_lusk@americanchemistry.com

DOW AND PREFERRED SANDS COLLABORATION WINS 2014 POLYURETHANE INNOVATION AWARD *Top CPI Award Presented at Technical Conference in Dallas*

DALLAS (September 24, 2014) – The Center for the Polyurethanes Industry (CPI) of the American Chemistry Council (ACC) today announced that Dow Chemical Company and Preferred Sands' innovation, TERAFORCE™ Technology, won the 2014 Polyurethane Innovation Award.

The winner, which was selected from among three finalists, was announced during the Closing Session of the 2014 Polyurethanes Technical Conference in Dallas.

“The polyurethanes industry is built on more than 80 years of innovation,” said Lee Salamone, senior director of CPI. “Dow and Preferred Sands’ important contribution, which we honored today, continues this tradition and sets the bar high for next year’s innovation award nominees. I’m proud to say that we received a record number of submissions for the Innovation Award this year, and I know we will continue to see the technical excellence exhibited by all of our finalists.”

The winning polyurethane chemistry, TERAFORCE™ Technology, is a collaborative innovation between Dow Chemical Company and Preferred Sands that expands the frontiers of polyurethane applications by improving oil productivity and the sustainability profile of the hydraulic fracturing process.

“What an honor it is for Dow and our partner, Preferred Sands, to be recognized this way—especially considering the record number of entries CPI received this year,” said Chris Chrisafides, commercial director for Dow Polyurethanes in North America. “I want to congratulate the other finalists from BASF and Novomer, as well all the companies that submitted their projects. It’s a privilege to represent the polyurethane industry with this award, and one example of how we can bring polyurethane chemistry into new spaces that create value for our society. That’s how we all win.”

TERAFORCE™ Technology is an important element of the U.S. energy boom and manufacturing renaissance and can play an integral role in job creation. Preferred RCS™ Resin Coated Sand with Dow TERAFORCE™ Technology (the enabling polyurethane) saves energy during production of the resin-coated proppant through shorter production cycles and low temperature, and reduces hazardous risks associated with proppant flowback. The technology also eliminates the need for an external activator, or additional chemicals, that competing technologies require to be injected into oil wells. The two companies continue to develop technologies for broader applications across energy markets, and ever-more efficient and sustainable oil and gas recovery.



Other finalists for the Innovation Award were BASF's Infinergy™ particle foam for use in athletic footwear and Novomer Inc.'s environmentally conscious feedstock formulation, Converge®.

“BASF and Novomer presented incredible new uses of polyurethanes,” Salamone said. “It was a very close race, and all finalists did an outstanding job.”

More than 900 people attended the 2014 Polyurethanes Technical Conference, which featured 59 technical presentations, 57 Table Top exhibits, 33 poster presentations and eight Professional Development Program courses.

Award Selection

A panel of judges, comprised of experts representing technical disciplines and the polyurethane supply chain, evaluated all eligible submissions. Judges evaluated and scored all entries based on impact on the polyurethanes industry, uniqueness of the innovation, quality of the science and societal impact. The three submissions with the highest scores were selected as finalists for the 2014 Polyurethane Innovation Award.

Each individual conference registrant attending the Opening Session was eligible to cast one vote for one finalist. The finalist with the most votes from the audience received an additional 20 points, which were added to the score from the judges. The innovation with the highest total score was deemed the winner.

Eligibility

All entries for the 2014 award were required to represent new innovations that had not been previously submitted for the Innovation Award and had not been available for commercial sales longer than 15 months prior to June 18, 2014.

Entries pertaining to a polyurethane product or polyurethane manufacture were required to relate to polyurethane chemistry, which is expressly defined as the reaction of an isocyanate with a polyol. Innovations in polyurethane chemistry could include finished products, initiatives, training or education programs, or processes or processing equipment.

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The American Chemistry Council (ACC) represents the leading companies engaged in the business of chemistry. ACC members apply the science of chemistry to make innovative products and services that make people's lives better, healthier and safer. ACC is committed to improved environmental, health and safety performance through Responsible Care®, common sense advocacy designed to address major public policy issues, and health and environmental research and product testing. The business of chemistry is an \$812 billion enterprise and a key element of the nation's economy. It is the nation's largest exporter, accounting for twelve percent of all U.S. exports. Chemistry companies are among the largest investors in research and development. Safety and security have always been primary concerns of ACC members, and they have intensified their efforts, working closely with government agencies to improve security and to defend against any threat to the nation's critical infrastructure.



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The Center for the Polyurethanes Industry of the American Chemistry Council promotes the sustainable growth of the polyurethanes industry. Our members are U.S. producers or distributors of chemicals and equipment used to make polyurethane or manufacturers of polyurethane products.

