

Missouri Department of Transportation

2010 Tool and Equipment Innovation Showcase Summary

MoDOT's customers have come to expect innovative transportation solutions ... and MoDOT employees delivered at the third Tool and Equipment Innovation Showcase March 30 in Springfield. The showcase brought together 37 district tool and equipment innovations in the areas of snow and ice response, drainage and preventive pavement maintenance

A team of technical experts, including an evaluator from each district, rated innovations on overall cost effectiveness, ease of use, versatility and the ability to implement statewide. Six individual winners would take home \$500 for themselves and an extra \$10,000 for their district budget.

Winners at 2010 Tool and Equipment Innovation Showcase included:

Snow and Ice Response Tools

First Place – V-Bed Removal Tool - Operators safely stay on the ground to load or unload V-bed spreaders using this specially designed reach tool. *(District 1)*

Honorable Mention – Snow Plow Cradle - A modified 10-ton floor jack allows one person to install snow plow blades and backup blades at the same time. *(District 7)*

Snow and Ice Response Equipment

First Place – Plow Lift Chain Bracket - This bracket nearly has eliminated chain breakage and allows replacements during a snowstorm without welding. *(District 2)*

Honorable Mention – Tractor Plow & Spreader - Idle tractors can now help keep intersections and ramps cleared during snow fights with four-wheel traction. *(District 3)*

Drainage Tools

First Place – CMP Lifting Bracket - Brackets slip onto any size pipe in just minutes. Crews can install pipes without getting into the trench. *(District 2)*

Drainage Equipment

First Place – Culvert Flusher - This customized high-pressure nozzle is attached to a flusher truck to make culvert cleaning quick and easy. It also can be used to identify clogged pipes. *(District 10)*

Honorable Mention – Loader Ditching Bucket - An oversized bucket converts a front loader into a ditching unit. There's no need for a backhoe or tire excavator. *(District 6)*

Preventive Pavement Maintenance Tools

First Place – Inline Asphalt Filter - This unit is placed between the vendor's asphalt tanker and MoDOT's asphalt distributor to reduce contaminated particles that clog distributor screens. *(District 2)*

Preventive Pavement Maintenance Equipment

First Place – Pocket Hitches - Pocket receivers make changing attachments fast, safe and secure. Hitches are designed to work with a variety of implements including edge rut boxes. *(District 7)*
This innovation also received the Best of Show Trophy.

Details on winning innovations will be shared statewide for implementation. Employees will be able to access information on all 37 displays on the Tool and Equipment Web page at <http://wwwi/intranet/or/SolutionsAtWork/Tec09/index.htm>.