

TREAT Mobile Lab

Teaching and Researching Emulsified Asphalt and Treatments



Date: August 12-13, 2025

Location: Salina, KS

Treatment sections: 3 slurry seal, 3 chip seal

Emulsions manufactured: CRS-2



On August 11, Andrew Braham, Tanner Turben (PhD student), Rasool Fazeli (MS student), Joey Eiland (Scientific Research Technologist), and Terry Mullen (Research Project Analyst) traveled to Salina, Kansas to visit Bergkamp for three sets of TREAT Day of Training (DoT). Approximately 25 professionals attended a full DoT, while approximately 60 professionals attended live demonstrations and a one-hour presentation. The professionals included Bergkamp employees, and representatives from the City of Wichita, the City of Salina, and Saline County. Figure 1 shows the audience during one set of the demonstrations and during the classroom setting.



Figure 1 – Demonstration audience on the left, classroom audience on the right

In Salina, the TREAT group executed a new format for training. On August 12, the morning DoT started at 10:30am for about 30 Bergkamp employees. The group first saw a live demonstration manufacturing of a CRS-2 emulsion. Next, multiple cups of asphalt emulsion were distributed to the group, and sand was slowly added to each cup as the mix was stirred so participants could witness the breaking of asphalt emulsion. This allowed for an interactive activity exploring the breaking of asphalt emulsion. Finally, the group saw a live demonstration of the mini-spray applicator (with CRS-2) and the mini-mix applicator (with CQS-1H) placing a chip seal and slurry seal section. After these demonstrations, approximately 60 Bergkamp employees met for lunch, including the 30 who participated in the morning DoT and 30 who would participate in the afternoon DoT. During lunch, there was a 45-minute presentation. The presentation included: what is asphalt emulsion, how it is manufactured, and how it is used. After lunch, the afternoon DoT program was executed in the same format as the morning. Figure 2 shows pictures of the afternoon DoT.

TREAT Mobile Lab

Teaching and Researching Emulsified Asphalt and Treatments



Figure 2 – Emulsion manufacturing and mini-mix applicator demonstrations

On August 13, a full DoT was executed for approximately 25 professionals. This included an introduction to pavement preservation, asphalt emulsion 101, asphalt emulsion manufacturing, and asphalt emulsion-based treatments (including overviews, specifications, and inspection). The group also watched the live asphalt emulsion manufacturing demo, participated in the asphalt emulsion breaking activity, and saw a live demonstration of the mini-spray applicator (with CRS-2) and the mini-mix applicator. Similar to previous DoTs, the group was able to see the two slurry seal and two chip seal sections that were placed the day before, so they could observe the treatments immediately after placement and 24-hours after placement. Figure 3 shows pictures of the classroom and the demos for the full DoT, the TREAT team, and the six test sections. Thank you to all at Bergkamp for two fantastic days in Salina!



Figure 3 – Classroom session (top left), inspecting the slurry seal application (top right), the TREAT team (bottom left), and the six test sections (bottom right).