

Innovation Exchange Webinar

Conversations Launching Change

Presented by the Federal Highway Administration (FHWA) Center for Local Aid Support

Nano-Cellulose Material for Infrastructure Projects

Thursday, September 19, 2024 | 2:00 - 3:30 P.M. EST

What is so small (nano cellular) but could improve strength and durability over traditional cement? Nano-Cellulose Material.

Nano-crystals from wood, which are smaller than microscopic but larger than an atom, are moving from the laboratory to the real world for structures (bridges), sidewalks and other transportation infrastructure. Nano-cellulose is a byproduct of the paper, bioenergy, agriculture, and pulp industries.

The U.S. Forest Service and their researchers are leading the quest to find low carbon concrete options and increasing performance. Cellulose nanocrystals can make concrete stronger through a chemical reaction and with less water, making its use more sustainable and efficient.

What are other benefits and some challenges with using nano-cellulose material on transportation projects? How different (or not) are the application processes with nano-cellulose material as a substitute for cement mixes? Join the FHWA, Office of Federal Lands Highway, and their partners at the U.S. Forest Service in exploring the use of nano-cellulose material for your next transportation project.

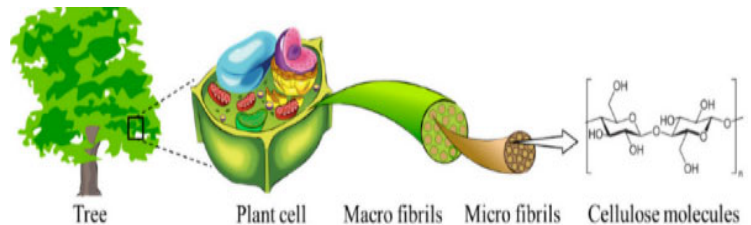


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Learn from the engineers and designers who are using this new technique. For questions, contact [Karyn Vandervoort](#), FHWA National Program Manager, Innovation and Research or email CLAS@dot.gov. The FHWA Center for Local Aid Support will provide a certificate of participation for this event. Simply select “yes” when prompted during registration.

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