

Ethanol, Octane, and the Future of Motor Fuels

A special webinar series featuring MathPro, Inc.

Automakers continue to push for higher octane fuels to enable greater engine efficiency and facilitate compliance with future fuel economy and GHG standards. The Renewable Fuels Foundation (RFF) has teamed up with the fuel refining experts at MathPro, Inc. to sponsor an exclusive webinar series that examines ethanol's unique octane properties and its potential role as the octane source of choice in future fuels. The five-part series will provide stakeholders with a better understanding of the immense opportunities—and the important challenges—that lie ahead for ethanol-based high octane fuels.

June 15: All About Octane

Definitions of octane, RON, MON, AKI, (R+M)/2; blending octane, sensitivity; ethanol's pure and blending octane in different gasolines; current octane standards; the premium grade split.

July 7: Gasoline Refining and Blending 101

Key gasoline specifications (octane, RVP, aromatics, sulfur); the concept of specification blending; blending properties of key gasoline components; the role of the reforming process.

August 18: Gasoline Blending 102 (With Ethanol)

Blending properties of ethanol (octane, RVP, energy content); the RVP waiver for E10 blends; E15 blending considerations; ethanol as gasoline extender vs. octane enhancer; how refiners capture ethanol's blending value; ethanol's octane contribution to the gasoline pool, 2000-15.

September 8: Future CAFE Standards

The ramp-up of CAFE standards; using advanced engine technologies (turbocharging, high-CR) to improve fuel economy; how turbocharged and high-CR engines benefit from high-octane, mid-level ethanol blends; prospects for high-octane US gasoline pool.

September 29: Economics of High Octane Fuels

The refining economics of producing BOBs for high-octane, mid-level ethanol blends; alternative sources of additional octane; crude oil prices and the cost of octane; issues in making the transition to a higher octane gasoline pool.

- All Webinars will be held from 11 am-12 pm Central Time
- Webinar series is FREE for RFA members
- Fee for non-members is \$250 per session or \$1,000 for all five
- Space is limited. Register today by contacting Missy Ruff at mruff@ethanolrfa.org or (202) 446-1944.