

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 mruuff@ethanolrfa.org or (202) 446-1944.