

A monthly newsletter dedicated to Teacher Resources, Student Activities, Contests, Competitions, Online Courses and MORE about Advanced Biofuels. Scholarships, fellowships, green jobs ... [Click here to SUBSCRIBE](#)

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## Educational News and Resources

**Scroll down for:**

- [Teacher Resources](#)
- [News about and for Students and Schools \(K-12\)](#)
- [Scholarships, Fellowships, Internships in the US and around the world](#)
- [Competitions, Contests](#)
- [Webinars](#)
- [Executive, Professional, Technical Training](#)
- [Online Courses](#)
- [Featured Study Programs](#)
- [Green Jobs in the US and Around the World](#)
- [Requests for Speakers, Posters, Presenters](#)
- [Grants](#)
- [Latest News about University/College Research](#)

Use these links for more information about:

- [Grants](#) in the news
- [Requests for Speakers, Posters, Presentations](#)
- [Latest News about College/University Research](#)
- Webinars: [Upcoming](#) and [Archived](#)

## Featured Stories

### Students Investigating Economic Feasibility of Oak Ridge Discovery to Store Solar Energy in Ethanol from Waste CO<sub>2</sub>

"I think it could be very important. The idea that we could find a more useful and effective way to take care of excess carbon dioxide could be transformational," said **Evan Saunders**, a University of Iowa student who studied the financial viability of Oak Ridge's discovery. "This technology can potentially impact the world in a significant number of ways."



Saunders, who is studying for an MBA and a law degree, is among a group of four Iowa students investigating the economic potential of the discovery. While many factors remain uncertain, the initial results were encouraging, showing a potential market among ethanol producers. Plus, the process could prevent an untold amount of greenhouse gas from being released into the atmosphere.

**Thomas Rietz**, a University of Iowa finance professor oversees the students' research as part of the university's MBA Finance Career Academy experiential learning consulting projects. [READ MORE](#)

## Consortium for Advanced Bioeconomy Leadership & Education Program Student Addresses Advanced Bioeconomy Leadership Conference in Washington, DC

**Leyla Battista**, a senior biosystems engineering student at Auburn University, had an extraordinary opportunity to attend and speak at the Advanced Bioeconomy Leadership Conference (ABLC) Friday, March 2, in Washington, DC.



This annual gathering of hundreds of international leaders, C-level business executives and federal agency staff convenes to talk about pressing current issues and outlooks for the future of the bioeconomy.

Battista's session was part of the Advanced Biofuels Summit track where she discussed Auburn students' lack of knowledge of the Renewable Fuel Standard, apparent support for its basic objectives and how to bridge that gap. She represented a team of Auburn students interested in bioeconomy policy issues including **Alex Vore, Shehan Navaranthe and John Johnson**.



As part of a US Department of Agriculture-funded Consortium for Advanced Bioeconomy Leadership & Education (CABLE) Program, led by Ohio State University and supported by Biofuels Digest, the team chose the following objectives: Analyze the Renewable Fuel Standards, examine available resources and awareness levels of college students. The deliverables they decided to create were:

- Provide objective fact based resources aimed at increasing understanding among policymakers and the general public
- Gain an understanding of the best methods by which to reach young audiences
- “Fast Facts” sheet, PowerPoint presentation, and project website

Thanks go to **Eric McAfee**, CEO of Aemetis, for sponsoring Battista's participation at ABLC and **Jim Lane**, Biofuels Digest publisher, for putting her on the agenda at the conference.

The group of CABLE students and faculty from 20 universities and colleges will be participating in the [ABLC GLOBAL conference in San Francisco in November](#).  
[READ MORE](#)

## Teacher Resources

***Activities, Texts, Books, Services, Conferences, Summer Programs ...***

[RFA Develops ‘Ethanol in the Classroom’ Program](#)

by Cindy Zimmerman (Energy.AgWired.com) The Renewable Fuels Association has developed a new on-line educational program designed to help

tomorrow's consumers get to know ethanol.

The new "Ethanol in the Classroom" course provides a fun and interactive way

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### [U.S. Department of Education Green Ribbon Schools](#)

(U.S. Department of Education) The aim of U.S. Department of Education Green Ribbon Schools (ED-GRS) is to inspire schools, districts and Institutions of Higher Education (IHEs) to strive for 21st century excellence by highlighting promising ...

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### [#TeachClimate Network](#)



The goals of this network are to bring together educators to:  
have an opportunity for informal discussions about challenges  
and successes to implementing climate change education  
discuss the use of climate fiction, "cli-fi" as a vehicle for ...

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### [Summer Institute for Climate Change Education — June 26-28, 2018 — Collegeville, MN](#)

Apply for a Scholarship and Attend for Free. Join a network of teachers from across the country dedicated to bringing science, critical thinking, and problem solving about climate change into the classroom!

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### [Talk Climate Institute — March 12-13, 2018 — St. Paul, MN](#)



Join Climate Generation: A Will Steger Legacy for this two day intensive workshop designed to empower people to talk about

climate change. Understand the powerful factors that shape opinions, and gain the practical skills needed ...

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Find more [Teacher Resources here](#).

## News about and for Students and Schools (K-12)

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### [Youth Convening Minnesota](#)

(Climate Generation) Youth Convening Minnesota (YCM) is an opportunity for high school youth to learn about climate change and gain the leadership skills needed to convene their local community on climate change and inspire solutions.

YCM ...

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For more information about [K-12 activities](#) and [teacher resources](#), click on these topics in the Categories list along the right margin of the [Advanced Biofuels USA website](#). You can also find information on these topics on the [Teacher Resources](#), [For Kids](#) and [Education Resources](#) pages on the site.

## Scholarships, Fellowships, Internships in the US and around the world

[New Biodiesel Foundation Scholarship Honors Calabotta DEADLINE: March 31, 2018](#)

by Cindy Zimmerman (Energy.AgWired.com) The National Biodiesel Foundation's new Beth Calabotta Sustainability Education Grant offers up to

\$2,000 to full-time students who are interested in science, research and biodiesel sustainability. Calabotta was director of Monsanto's Bioenergy ...

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[Environmental and Energy Law Program at Vermont Law School \(Fellowship Application Deadline: May 1\)](#)

(Vermont Law School) SHAPE ENERGY POLICY—Learn how to use the law to shape policies that encourage energy efficiency, advance renewable energy, and promote energy security and justice.

The legal system will critically affect how humanity meets the ...

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[Student Travel Grants to the 2018 Algae Biomass Summit DEADLINE: March 14, 2018](#)

Get your abstracts for the 2018 Algae Biomass Summit ready! The Algae Foundation has announced that it is offering \$500 travel grants to attend the 12th Annual Algae Biomass Summit in The Woodlands, Texas, from ...

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[Agricultural Relations Council Offers Student Internships](#)

(Agricultural Relations Council) The Agricultural Relations Council (ARC) will again offer member companies the opportunity to host an outstanding student intern in summer 2018 as part of the ARC Internship Program. Organizations wishing to apply ...

- The internship will be 10-12 weeks long and begin in May 2018.
  - Student applications opened Feb. 1, 2018, and the student will be selected in April. [READ MORE](#)
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### [National Corn to Ethanol Research Center Internship Program](#)

The NCERC biofuels internships are funded through a \$10 million U.S. Department of Labor Trade Adjustment Assistance Community College and Career Training grant awarded in 2014. NCERC, which has a pilot plant, works with Southern Illinois University Edwardsville and its Lewis and Clark Community College on the Building Illinois Bioeconomy program. “What BIB does, is it takes this four-year university that we sit on at SIUE and our research center here at NCERC and it links up the activities here with four other community colleges across our state,” says Courtney Breckenridge, BIB project manager. “The areas we focused on with the grant were bioprocess and biofuels and water management.”

In addition to the technical jobs, NCERC recently added intern positions in business-oriented jobs. Up until about 2016, the internships were very STEM-oriented (science, technology, engineering and math). In 2017, they have added interns who have had degree fields such as accounting, public relations, etc.

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### [Bioenergy Internship & Fellowship Opportunities](#)

(U.S. Department of Energy) The U.S. Department of Energy’s (DOE’s) Bioenergy Technologies Office (BETO) regularly engages interns and fellows in the sciences, engineering, and liberal arts through a variety of internship and fellowship programs, including ...

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### [Education Internships at Idaho National Laboratory](#)

(Idaho National Laboratory) As a Department of Energy facility, INL offers a diverse number of paid internship positions to high school, undergraduate and



graduate level students. These internship opportunities enable students to collaborate with experienced ...

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#### [Association of Commonwealth Universities' Early Career Academic Grants](#)

Early Career Academic Grants are open to early career academics employed by ACU member universities, enabling them to participate in a conference held in a Commonwealth country other than their own.

A minimum of 30 grants are on ...

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[The Young African Leaders Initiative \(YALI\)](#) is a signature effort to invest in the next generation of African leaders. President Obama launched YALI in 2010 to support young African leaders as they spur growth and prosperity, strengthen democratic governance, and enhance peace and security across Africa.

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The [Mandela Washington Fellowship for Young African Leaders](#) brings 500 dynamic young African leaders, ages 25-35, from across the continent to the United States for 6 weeks of leadership training and mentoring at twenty U.S. universities and colleges in three areas: business and entrepreneurship, civic engagement and public administration.

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*For more information about [Scholarships and Fellowships](#), click on those topics along the right margin of the [Advanced Biofuels USA website](#).*

## **Competitions, Contests**

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### [U.S. Department of Education Green Ribbon Schools](#)

(U.S. Department of Education) The aim of U.S. Department of Education Green Ribbon Schools (ED-GRS) is to inspire schools, districts and Institutions of Higher Education (IHEs) to strive for 21st century excellence by highlighting promising ...

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*For information about other competitions and contests, [click here](#).*

## **Webinars**

For information about [upcoming webinars, click here](#).

For [archived webinars, click here](#). Often they are available for viewing online.

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### [WEBINARS: Sustainable Aviation Fuel: First Friday Research Highlights — March 6, April 2, and May 4, 2018](#)

Webinar series to highlight and question research areas in the sustainable aviation fuel supply chain

Join us in a series of 40 minute lunchtime talks to highlight the research areas key to supporting the creation of ...

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### [WEBINAR: Electric Dreams: The Impact of EVs for Energy and Metals in Asia — March 22, 2018](#)

While EVs are the subject of noisy debate among some western commentators, they have been quietly gaining ground in some of Asia's biggest economies.

China is developing a timetable to ban internal combustion engine vehicles, while ...

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#### [WEBINAR SERIES: March Madness 2018 — March 27-April 27, 2018](#)

As with last year, the webinars are completely free to all – you just register once, and attend as many as you like. Each will be recorded and you would receive a link to each

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## **Executive, Professional, Technical Training**

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#### [6th Fats, Oils and Grease Conference & Training — April 17-19, 2018 — Valdosta, GA](#)



On behalf of the Southeastern F.O.G Alliance we would like to invite you to attend our 6th Fats, Oils and Grease Conference & Training. This is the only one of its kind in the south ...

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#### [Upcoming Ethanol Safety Seminars](#)

The Renewable Fuel Association, in partnership with several industry entities, will be hosting a series of Ethanol Safety Seminars at various locations throughout the United States. This course was developed to give first responders, hazmat teams, fuel transporters, and safety personnel an in-depth

look at proper training techniques needed when responding to an ethanol-related emergency. The seminars are FREE to attend. [READ MORE](#)

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### [Online Ethanol Emergency Response Course](#)

The Renewable Fuels Association is now offering an online version of its Ethanol Emergency Response course for first responders.

The two-hour training course, offered in partnership with the International Association of Fire Chiefs (IAFC) and TRANSCAER®, covers content from the “Training Guide to Ethanol Emergency Response,” which has recently been updated.

This new online training is targeted towards emergency responders, but is open to anyone with interest in ethanol emergency response. Upon completion of the course, participants will have knowledge related to ethanol and ethanol-blended fuels, including the use, chemical and physical characteristics, transportation modes, transfer operations, basics of foam, suggested responder tactics and strategies and environmental issues.

## Online Courses

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### [Consortium Launches Online Algae Intro Course](#)

(Algae Industry Magazine) A new online course in algae basics has just been made available by Coursera for anyone interested in learning the fundamentals of algae. The Massive Open Online Course (MOOC), Introduction to Algae, was ...

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[Environmental and Energy Law Program at Vermont Law School \(Fellowship](#)

[Application Deadline: May 1\)](#)

(Vermont Law School) SHAPE ENERGY POLICY—Learn how to use the law to shape policies that encourage energy efficiency, advance renewable energy, and promote energy security and justice.

The legal system will critically affect how humanity meets the ...

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[Climate Generation Offers a Suite of Grades 3-12 Curriculum Resources in the form of Curriculum Guides, as Well as Online Modules that Can Be Downloaded for Free.](#)

(Climate Generation) Aligned with Minnesota state science, social studies and language arts standards, the Next Generation Science Standards and the climate and energy literacy principles, the curricula has been reviewed by scientists, professional educators, and ...

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[RFA Develops 'Ethanol in the Classroom' Program](#)

by Cindy Zimmerman (Energy.AgWired.com) The Renewable Fuels Association has developed a new on-line educational program designed to help tomorrow's consumers get to know ethanol.

The new "Ethanol in the Classroom" course provides a fun and interactive way ...

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[@EthanolRFA Offers Online #Ethanol Emergency Course](#)

by Joanna Schroeder (Energy.AgWired.com) For first responders unable to attend in-person training courses, the Renewable Fuels Association (RFA) is now offering an online version of its Ethanol Emergency Response course. Offered in partnership with the ...

## Featured Study Programs

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Do you have a special program related to biofuels? Let us know.

## Green Jobs in the US and Around the World

**This month's articles that feature information about jobs in advanced biofuels and the bioeconomy**

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### [Heard from the Floor at ABLC — Thursday March 1, 2018](#)

March 5, 2018 –by Helena Tavares Kennedy (Biofuels Digest) ... On March 1, ABLC 2018 kicked off at the Mayflower Hotel in the heart of D.C. with five Avengers – a superhero bunch who all had a common thread ...

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### [UIA Enters \\$70 Billion Development Deal with Malaysian Firm](#)

March 5, 2018 – by Bridget Asiimwe (The Observer) Uganda Investment Authority has entered a multi-billion deal with a Malaysian firm with an aim of transforming the country into a green economy by 2040 through a series of four integrated green ...

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### [The Biobased Economy Is Reaching a Tipping Point](#)

February 27, 2018 –by Brent Erickson (Biotechnology Innovation Organization/Biofuels Digest) ... BIO is the only trade association that advocates for the diverse policies that support the entire biobased economy – the full value chain of technologies and infrastructure ...

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### [Ethanol Industry Boosted Minnesota's Economy By \\$2.1 Billion In 2017](#)

February 26, 2018 – (Minnesota Bio-Fuels Association) Minnesota's ethanol industry remained robust in 2017, contributing \$2.17 billion to the state's gross domestic product (GDP).

In a new study by ABF Economics, the ethanol industry in Minnesota produced 1.2 billion gallons of ethanol, 3.7 ...

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### [18.5 Million People Employed in Bioeconomy, Primarily in Biomass Production](#)

February 26, 2018 – by Helena Tavares Kennedy (Biofuels Digest) In Washington, DC, a study conducted by nova-Institute on behalf of the Bio-based Industries Consortium (BIC) showed for the first time which macroeconomic effects are generated by bioeconomy activities – those using ...

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### [Letter: Renewable Fuel Standard Supports Domestic Biofuels](#)

February 20, 2018 –by Christiana Mayer (East Oregonian) We are continually bombarded with news about new oil drilling and fracking, but that's not the only solution for domestic fuel production or the only path toward loosening OPEC and Russia's ...

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### [Ambitious Policies Position Canadian Biofuels for Growth](#)

February 19, 2018 – by Jim Grey (Ethanol Producer Magazine/Renewable Fuels Canada) The story of the Canadian biofuels sector is remarkable. From its infancy, the industry has continued to drive Canada's circular economy, supporting the agricultural sector while continually creating ...

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### [NREL Looking for Help with Biorefineries Survey](#)

February 19, 2018 – by Helena Tavares Kennedy (Biofuels Digest) In

Washington, DC, the National Renewable Energy Laboratory (NREL) is asking for help in gathering information to better understand the existing and next generation biofuel industry and its contributions to the local, ...

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### [Analysis Finds U.S. Ethanol Industry Making ‘Significant Contribution to the Economy’](#)

February 15, 2018 – (Renewable Fuels Association) The U.S. ethanol industry added nearly \$44.4 billion to the nation’s gross domestic product and supported 358,779 jobs in 2017, according to a new study conducted by ABF Economics. The study, released today by the ...

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### [A Million Minds in the Advanced Bioeconomy](#)

February 14, 2018 – by Jim Lane (Biofuels Digest) Two of our most popular editorial features return today in their 2018 livery— the corporate 5-Minute Guides and the “4 Minutes with...” series that introduces you to some of the Million Minds ...

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### [Global Ethanol Market: Advancement in Production Technologies and Demand for Cleaner and Cost-Effective Fuel in Automobile Sector to Bolster Uptake, notes TMR](#)

February 11, 2018 – (Transparency Market Research/Globe Newswire) Global Ethanol Market could rise at a CAGR of 7.9% during the forecast timeframe 2017–2022 to touch a hefty valuation of US\$105.0 Billion by the final forecast year 2022. — The global ethanol ...

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### [American Energy Dominance Won’t Come from Turning Back the Clock](#)

February 8, 2018 – by Mike Carr (The Hill/New Energy America) President Trump has pledged a theme of “energy dominance.” It’s not the first time Washington has had this thought. During the years I worked at the Senate Energy and Natural ...



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### [That Was Then, This Is NOW! or The New Economics of Biogas Projects](#)

February 8, 2018 – by Scott Warfield (CERES Project Services/Lee Enterprises Consulting/Biofuels Digest) ... The big game changer for financing, profitability and financial returns of anaerobic digester (AD) projects regardless of feedstock is carbon offset credits and specifically California's low carbon ...

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### [Advanced, to Go: The Digest's 2018 Multi-Slide Guide to 2G Biofuels Implementation Timetable](#)

February 7, 2018 – The biggest news out of Novozymes this month is its new yeast platform for starch-based ethanol, while also introducing the first product, Innova Drive. A completely new yeast strain, the product can reduce fermentation time by

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### [Innovators Dilemma Revisited in Renewable Chemicals and Materials](#)

February 5, 2018 – by Daniel Lane and Joel Stone (Lee Enterprises Consulting, Inc./Biofuels Digest) ... These disruptive technology innovations have happened many times throughout history and are discussed in the popular book The Innovator's Dilemma, by Clayton Christensen. He coined the ...

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### [New Report Shows January 2017 Biodiesel Jobs Jumped 23% on Year](#)

January 31, 2018 – by Meghan Sapp (Biofuels Digest) In Washington, the Environmental Defense Fund's new report "In Demand: Clean Energy, Sustainability and the New American Workforce" says that 48% of 770,000 people working in renewable energy jobs at the start of ...

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## Requests for Speakers, Posters, Presenters

For information about conferences seeking speakers, posters and presenters, [click here](#).

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## Grants

For information about [grants, click here](#).

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## Latest News about University/College Research

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**Also, what you would like to see in this Advanced Biofuels**

**Education Newsletter?**

If you have contributions, lesson plans, experiments or news you would like to share,  
please contact

Joanne Ivancic at [info @ AdvancedBiofuelsUSA.org](mailto:info@AdvancedBiofuelsUSA.org)

or call 301-644-1395

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You can now make a secure donation to Advanced Biofuels USA via PayPal by clicking on the "[Donate](#)" button below. It's quick, easy and safe. Make it a year-long gift by making monthly installments automatically.

You can make your gift in memory or in honor of someone special. Just let us know. Call (301-644-1395) or send an email: [info@AdvancedBiofuelsUSA.org](mailto:info@AdvancedBiofuelsUSA.org). We'll send a special card acknowledging your gift.

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