

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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*Advanced Biofuels USA, a nonprofit educational organization, advocates for the adoption of advanced biofuels as an energy security, economic development, military flexibility and climate change solution.*



## Featured Story

### Renewable Fuels Association Develops "Ethanol in the Classroom" Program



The Renewable Fuels Association's "Ethanol in the Classroom" eLearning course is designed to educate elementary, middle school and high school students on all things ethanol with a fun interactive eLearning course. The program is divided into *3 levels*: Grades **3-5**, Grades **6-8** and Grades **9-12**.

The format of this training is a roadmap on which students take an interactive journey to [learn about ethanol](#).



First, students choose a grade level. Next, they [choose a vehicle](#) that runs on ethanol. After choosing their vehicle to help them navigate through the eLearning they are directed to the introduction and *Stop 1*.

At each stop, students learn about ethanol and complete activities to see how much they've learned. After completing each stop they earn a badge for their success. The journey begins with a quick stop at the fuel station [where they fill their vehicle](#) with ethanol blended fuel. While they are there, students will [learn more](#) about ethanol.

At *Stop 2*, students take a scenic drive through the rolling hills and forest to learn more about the [environmental benefits](#) of ethanol.



At *Stop 3*, students take a drive through the rural farmlands to learn more about ethanol's [economic impact](#).

At *Stop 4* students learn more about [ethanol's uses](#).

Once they have completed their journey and earned badges at the end of each Stop, they compete in the Ethanol Challenge. In this challenge, students are presented with ethanol facts. Once completed students are congratulated for their achievements and earn the **Ethanol Advocate badge**.

[Click here](#) to take a test drive. [READ MORE](#)

## Educational News and Resources

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**Use these links for more information about:**

- [Grants](#) in the news
- [Requests for Speakers, Posters, Presentations](#)
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## **Teacher Resources**

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

[Eye on Biodiesel Initiative Award](#)

by Cindy Zimmerman (BiodieselConference.org) This year's Eye on Biodiesel Initiative award was presented to HERO BX founder Samuel P. "Pat" Black, III.

This year, Black combined his philanthropic mindset with his passion for biodiesel and commissioned a book, "The Biodiesel Solution," to help bring the biodiesel story to a mainstream audience and to capture the early history and numerous achievements of the industry as a collective.

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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](#)

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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### [Algae Foundation Gears up Coursework](#)

by Mark R. Edwards (Algae Industry Magazine) t the recent Algae Biomass Summit in Salt Lake City Algae Foundation President Ira Levine shared this year’s advancements in algal-based education for K-14 and beyond. The past year ...

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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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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

[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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### [Green Chemistry for Life Grant Programme: Green Chemistry Research Grants for Young Scientists DEADLINE: February 28, 2018](#)

October 19, 2017 – (UNESCO) Fifth call for applications –  
2017/2018 Deadline: 28 February 2018

The grant programme aims to promote the implementation of innovative research projects in green chemistry by young scientists that respect the 12 principles of green chemistry. ...

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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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### [Tell an Inspiring Story to Move the Planet Forward — Enter to Win our Storyfest](#)

[Award DEADLINE: March 2, 2018](#)

November 10, 2017 – (Planet Forward) Grand Prize: A storytelling trip to Alaska with Lindblad Expeditions! In every corner of the planet, amazing



people are working hard to figure out solutions to the environment's biggest challenges. But if no one ...

*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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### [WEBINAR: Tax Reform: How Changes Will Lend Fresh Opportunities for Ethanol Plants — February 8, 2018](#)

January 29, 2018 – Recent signing of the largest piece of tax legislation in three decades means nearly all businesses will be affected at some level. Reform provisions are neither simple nor permanent, but they are rife with potential ...

### [WEBINAR: Renewable Diesel and Biodiesel Blends for Fleets — February 8, 2018](#)

January 5, 2018 – What can I do to meet sustainability goals and reduce fuel costs? Louisiana Clean Fuels invites you to a webinar where you will learn the secrets behind achieving both utilizing renewable diesel and biodiesel blends. ...

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## Executive, Professional, Technical Training

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[3-Day West Coast Digester Operator Training Course — February 6-8, 2018 — Oakland, CA](#)



After the success of the ABC's first operator training last June in Oshkosh, WI, we are bringing our 3-Day Operator Training Course to the West Coast! This February the ABC is providing an intensive operator ...

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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.

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## Online Courses

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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

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

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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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### [Qantas, Agrisoma, Honeywell, AltAir, WFS Partner in Historic First Pacific Jet Biofuels Flight](#)

January 30, 2018 – by Jim Lane (Biofuels Digest) ... The world's first dedicated biofuel flight between the United States and Australia, QF96 from Los Angeles to Melbourne, has departed from LAX and arrives roughly at Digest press time.

The trans-Pacific ...

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### [Company Official Shares Biofuel Plant Details](#)

January 25, 2018 – by Tina Alvey (The Register-Herald) PPD of WV is putting together the final financial pieces of the puzzle, in hopes of breaking ground on its new biofuel plant near Sam Black Church this spring, according to ...

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### [Biodiesel Agents of Change](#)

January 24, 2018 – by Ron Kotrba (Biodiesel Magazine) Biodiesel Magazine spotlights four companies—a respected producer, a service-oriented wholesaler, a 200-year old chemical firm, and a fuel conditioning company—that enable biodiesel's role as an effective change agent.

PQ Corp.

... John Votta, global ...

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### [Leaps and Bounds in Sustainable Plastics and Nylons: U Wisconsin, Genomatica, Aquafil, Anellotech, Suntory, ADM, DuPont in the Mix](#)

January 24, 2018 – by Jim Lane (Biofuels Digest) It's been a big week in plastics and nylons, all right — not only for those who value sustainability attributes, but for fans of lower costs and higher performance, too. Let's ...

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### [Dry Idea: The Digest's 2018 Multi-Slide Guide to the Bioeconomy in Arid Regions](#)

January 22, 2018 – by Jim Lane (Biofuels Digest) The Sustainable Bioeconomy for Arid Regions (SBAR) is a multi-level research project that will cultivate two desert-dwelling crops, guayule and guar, for a sustainable bioeconomy. Scale up to profitable production, however, requires ...

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### [Strong Future ahead for the U.S. Ethanol Industry](#)

January 19, 2018 – by Christopher Wense (St. Louis Post Dispatch) ... While it appears the steel industry has likely reached its ceiling of growth, the U.S. ethanol industry is only scratching the surface of future biofuels, biochemicals and biomaterials from ...

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### [The Digest's 2018 Multi-Slide Guide to the SPARC Regional Biojet Fuel Consortium](#)

January 19, 2018 –by Jim Lane (Biofuels Digest) Sometimes, what an engine needs to roar to life is a spark. Or a SPARC, as in this case.

As in the Southeastern Partnership for Advanced Renewables from Carinata (SPARC), a consortium consisting of ...

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### [Top 20 Advanced Bioeconomy Projects underway in North America](#)

January 19, 2018 – by Jim Lane (Biofuels Digest) To date, North America is the most active of all regions in terms of deploying advanced technology — whether it is cellulosic ethanol, isobutanol for fuels and chemicals, or renewable chemical ...

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### [Canada's Regional Governments Press on with Carbon Pricing](#)

January 12, 2018 – (Bioenergy Insight) Alberta is moving into phase two of its carbon levy and Ontario has expanded its cap and trade market. The moves mirror similarly anti-emissions sentiments in Federal governments.

Introduced in 2017, Alberta's carbon tax is ...

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### [Last Train to Emeryville: The DigiBio Value Engine Is Leavin' the Station, Are You on It?](#)

January 10, 2018 – by Jim Lane (Biofuels Digest) Tie-ins for Zymergen,

Radiant Genomics, DMC, Capricorn Venture Partners, Syngenta and CHS demonstrate the firepower and scope of digital biology.

Today, products made via traditional biological tools tap into easy-to-grow-in-a-lab organisms, and ...

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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

For articles about recent developments in university/college research, [click here](#).

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**Did We MISS Something??? Let us know.**

**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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Make YOUR Contribution Today!**



Advanced Biofuels USA, a 501(c)3 nonprofit educational organization (NOT a trade organization) relies on Individual Contributions, Corporate Donations, In-Kind Donations and the Work of Many Volunteers to enable this organization to promote the understanding, development and use of advanced biofuels and to inspire action.

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.

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