

A monthly newsletter dedicated to Teacher Resources, Student Activities, Contests, Competitions, Online Courses, Webinars 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.



Educational News and Resources

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Featured Stories

New Ideas for Educating the Public about Biofuels

In a [Thought Leadership piece](#) published by *Biofuels Digest*, Jenna Bloxom urges that the biofuels community “proactively cultivate public trust and widespread support” and “re-assert biofuels as a political powerhouse and compelling policy agenda that defies partisan, geographical, and generational divisions.”



As a political scientist with years of experience with biofuel policies and technology, the politics of innovation, and natural resource management, Bloxom has taught bioenergy policy graduate courses. In this piece, she draws on her role as a political scientist in Colorado State University’s NSF-funded Integrative Graduate Education and Research Traineeship (IGERT) bioenergy program and on her interdisciplinary Ph.D. research on the policy foundations and potential global production of sustainable aviation fuel.

She advises the biofuels industry to “re-capture the public’s conviction in our trail-blazing innovations by aggressively educating people with reliable, comprehensive facts as well as creating a dedicated outlet in which citizens can integrate and express their advocacy for biofuels through voting, dialogue, product consumption, and

activism” and presents seven strategies ranging from information dissemination to political engagement to coalition-building to effectuate long-term policy influence. [READ MORE](#)

Advanced Biofuels USA Makes Presentation Slides Available

Looking for PowerPoint slides to use in your presentations? [Click here.](#)

Teacher Resources

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

[Algae STEM Kits from the Algae Foundation Now Easier Than Ever With New AmazonSmile Link](#)

May 30, 2018 – (Algae Biomass Organization) ... The Algae Academy provided 48 Algae STEM Kits to middle school classes in California, Michigan, and Ohio last year. In 2018, our goal is to provide 150 kits to middle and high ...

[National Council for Science and the Environment EnvironMentors Program](#)

May 14, 2018 – (National Council for Science and the Environment) The NCSE EnvironMentors Program provides mentoring, college preparation, and additional opportunities to high school students underrepresented in STEM fields.

EnvironMentors is NCSE’s youth mentoring and college preparation program for underrepresented ...

[Green Chemistry in the Curriculum: A Supplement to the ACS Guidelines](#)

April 20, 2018 –by Jennifer MacKellar (ACS Green Chemistry Institute/Chemistry Community Online) Over the years, there have been many efforts to provide green chemistry resources and support for chemistry educators. We are pleased to announce another outstanding resource developed ...

[Climate Feedback: A Global Network of Scientists Fact-Checking Climate Change News](#)

April 2, 2018 – (Climate Feedback) Climate Feedback is a worldwide network of scientists who collectively assess the credibility of influential climate change media coverage. Our first mission is to help Internet users—from the general public to influential decision-makers—distinguish inaccurate climate ...

Find more [Teacher Resources here](#).

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

[A First-of-a-Kind Algal-based College Certificate Program Sends Off Its First Graduates](#)

June 27, 2018 – (U.S. Department of Energy) The U.S. Department of Energy's Bioenergy Technologies Office (BETO)-funded Algae Technology Educational Consortium (ATEC) is proud to announce its first graduates from the algal certificate program at Santa Fe Community College in Santa Fe, ...

[The Local School Which Makes Its Own Biofuel](#)

June 5, 2018 – by Francis Witsenhuysen (Northern Star) Learning how to turn sugar cane into biofuel in primary school is one thing, but running the school's lawnmower with biofuel is quite another.

Yesterday, Empire Vale Public School raised the bar ...

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

[ACE Scholarship Program Announces 2018 Winners](#)

June 26, 2018 – (American Coalition for Ethanol/Ethanol Producer Magazine) The American Coalition for Ethanol congratulates the 2018 scholarship recipients Keithen Drury, Brett Galles, and Emma Baker. Each student receives a \$1,000 scholarship through ACE's scholarship program to help further their ...

[Biofuels Lab Opens at Penn State Behrend: HERO BX Partnership Extends Open-Lab Model to College's School of Science](#)

Pennsylvania State University) A \$1 million investment by HERO BX, an Erie-based biodiesel company, will create research opportunities for students and faculty members in the School of Science at Penn State Erie, The Behrend College. Much ...

[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.

[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 ...

[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 ...

[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 ...

[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.

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.

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

Competitions, Contests

[\\$25 Grand Prize: Climate Change Needs Behavior Change DEADLINE: August 7, 2018](#)

July 2, 2018 – (Solutions Search) Climate change needs behavior change. What people eat, what they buy and what they use contributes directly to climate change. In just eight months, humans consume what the earth can sustainably produce in a ...

[Planet Forward Fall Storytelling Expeditions](#)

June 22, 2018 – (Planet Forward) Join Planet Forward staff for a trip to California or Rome for one of our fall storytelling expeditions! Travel and lodging is covered by sponsors for this trip and students are expected to contribute a ...

[Want To Save the World with Your Brilliant Clean Energy Idea?](#)

June 20, 2018 – by Jennifer Runyon (Renewable Energy World) Multinational power company, Enel, said last month that it was expanding its partnership with InnoCentive, a 17-year old crowdsourcing company that partners with businesses and governments around the world to develop ...

[Request for Information: Forest Industry Technologies DEADLINE: July 20, 2018](#)

June 14, 2018 – Maine Technology Institute) The Maine Technology Institute is collecting publicly available information on technologies that could be deployed within Maine's forest industry. The purpose of this RFI is to encourage technology companies to submit preliminary ...

[RFA Holding Second Annual 'Ethanol Days of Summer' Contest](#)

May 23, 2018 – (Renewable Fuels Association/Ethanol Producer Magazine) Reporting prices for higher ethanol blends this summer could again win you \$50 in free fuel per day. Beginning Memorial Day, the Renewable Fuels Association is re-launching the "Ethanol Days of ...

[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 ...

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.

[WEBINARS: Sustainable Aviation Fuel: First Friday Research Highlights — on-going](#)

–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 ...

Executive, Professional, Technical Training

[2018 Biodiesel Seminar Tour Exploring Biodiesel — June 12 – September 18, 2018 — Various locations](#)

May 21, 2018 – Exploring Biodiesel (XBX) is a series of regional, one-day seminars designed to educate those in the industry on the benefits and opportunities surrounding biodiesel.

The National Biodiesel Board, in partnership with several industry sponsors, has announced ...

[Project COCONUT Launched in Quezon](#)

June 7, 2018 – by Danny Estacio (Manila Bulletin) Coconut farmers in Quezon have a brighter future to look forward to following the recent launch of COllaboration for COconut Productivity and NUrturing Farmers' Trade or Project COCONUT of Pilipinas Shell ...

[Summer School ZELCOR “Zero Waste Biorefineries: Technical Advances and Sustainability Assessment” — September 2-6, 2018 — Wageningen, The Netherlands](#)



(Graduate School VLAG) The 1st Summer School on waste biorefineries in the context of bioeconomy, with a focus on valorization of recalcitrant side streams. A panel of specialists in the biorefinery field will provide an up-to-date ...

[Postgraduate Summer School on Green Chemistry — July 7-14, 2018 — Venice, Italy](#)



(International Union of Pure and Applied Chemistry) The present edition of the Postgraduate Summer School on Green Chemistry will be managed by IUPAC Interdivisional Committee on Green Chemistry for Sustainable Development (ICGCSD).

This edition of the Post-graduate Summer ...

[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](#)

[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

[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 ...

[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 ...

[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 ...

[@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 ...

Consumer Education

[Mired in Misère: Re-Launching Political Capital and Public Trust for Biofuels; Seven Strategies to Reinstate Our Industry's Power in Washington, D.C. through Mainstreet, USA](#)

June 8, 2018 – by Jenna Bloxom (Colorado State University/Biofuels Digest) ... Now is the critical juncture for a unified bioeconomy to re-assert biofuels as a political powerhouse and compelling policy agenda that defies partisan, geographical, and generational divisions.

...

(T)his industry must ...

[RFA Announces \\$1M Fuel Your Knowledge Campaign](#)

May 29, 2018 – by Cindy Zimmerman (Energy.AgWired.com) Memorial Day weekend means the start of boating, biking and lawn mowing season – better known as

summer. As the small engines come out of winter hibernation, the Renewable Fuels Association (RFA) is ...

Featured Study Programs

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

Green Jobs in the US and Around the World

What kinds of jobs are there in the bioeconomy around the world? Who might be hiring? What companies are expanding? Find leads and background information in this month's articles about advanced biofuels and the bioeconomy. [Click here for Green Jobs Lists and Company Career pages.](#)

[Vivo Energy Kenya and Koko Networks Form Ethanol Cooking Fuel Partnership](#)

July 3, 2018 – (Koko Networks) Vivo Energy becomes first multinational fuels company to enter Kenyan market for ethanol cooking fuel, using KOKO technology to enable affordable mass-market access.

Vivo Energy Kenya today announces a partnership with KOKO Networks (“KOKO”) that ...

[China's Shift to Cleaner Energy Drives Huge Ethanol Demand](#)

June 29, 2018 – by Leah Marie Angelou (Small Cap Network) ... China is at a crossroad as it shifts to cleaner and renewable energy sources. Can the country keep up with its environmental pledge? — In September 2017, the ...

[A First-of-a-Kind Algal-based College Certificate Program Sends Off Its First Graduates](#)

June 27, 2018 – (U.S. Department of Energy) The U.S. Department of Energy’s Bioenergy Technologies Office (BETO)-funded Algae Technology Educational Consortium (ATEC) is proud to announce its first graduates from the algal certificate program at Santa Fe Community College in Santa Fe, ...

[Air Liquide Inaugurates a Biomethane Production Unit in France](#)

June 27, 2018 – (Air Liquide/Biomass Magazine) On June 22, in Cestas, near Bordeaux, France, Air Liquide inaugurates a biomethane production unit and a multi-energy distribution station nearby. Thanks to its complete mastery of the biogas recovery chain, Air Liquide ...

[Closing the Applications Gap: Checkerspot Closes \\$5M Seed Financing in Pursuit of High-Performance Biomaterials](#)

June 26, 2018 – by Jim Lane (Biofuels Digest) ... (C)onsider this venture about Making the Right Stuff — that is, how you translate an entire generation of innovation in digital biology, biobased chemical engineering and advanced fabrication into ...

[Some Delmarva Farmers Are Freezing Dead Chickens](#)

June 22, 2018 – by Katie Peikes (Delaware Public Media) Long considered the most beneficial way to dispose of dead chickens, composting has become a management tool of the past for some Delmarva poultry farmers.

Some local growers have shifted to ...

[High-Performance: The Digest’s 2018 Multi-Slide Guide to Avantium](#)

June 22, 2018 – by Jim Lane (Biofuels Digest) The company is now safely emerged

from its celebrated IPO, and is embarked on the development of the first commercial plant project with its JV partner BASF — so, its been ...

[Succinic's Next Season: The Digest's 2018 Multi-Slide Guide to BioAmber](#)

June 21, 2018 –by Jim Lane (Biofuels Digest) BioAmber's Mission? To be a fast growing producer of chemical intermediates that uses sugars instead of fossil fuels and sells competitively priced, sustainable chemicals with strong profit margins and the cleanest ...

[Taking off: Velocys, Shell, British Airways, UK Government, New Energy Risk, Red Rock Biofuels, TCG Global, PQ, and Advanced Plasma Power Figure in Key Renewable Jet Fuel Project Advances](#)

June 21, 2018 – by Jim Lane (Biofuels Digest) New Energy Risk's new performance insurance for TCG Global's gasifiers and a significant project advance from Velocys in the UK are on the docket today.

These companies and the news this morning ...

[Auburn Researcher: Biofuels Are Still an Important Component of Our Energy Mix](#)

June 18, 2018 – by Steven Taylor (Yellow Hammer) ... But for a moment, let's reexamine biofuels, as they can still play an important role in our state's energy production and economic development. According to the Energy Institute of Alabama, our state ...

[Maine Developments – Bio News Mounts from the Pine Tree State](#)

June 18, 2018 – by Helena Tavares Kennedy (Biofuels Digest) ... First, let's start with the latest from the Maine Technology Institute, which just announced a request for

information regarding emerging forest industry technologies, with the goal of accelerating matchmaking ...

[Joint Venture Company Formed for Execution of NRL's Bio Refinery Project](#)

June 14, 2018 – (Numaligarh Refinery Limited) Numaligarh Refinery Limited has taken a giant step forward by establishing a joint venture, Assam Bio-Refinery Pvt. Limited (ABRPL) with equity participation of M/s Chempolis Oy of Finland and M/s Fortum 3 B.V. of Netherland ...

[BASF Invests in LanzaTech, ArcelorMittal's Underway on Advanced Fuels, Syngenta Breaks 3B Gallon Mark, Leaf Gets an Accelerator: Partnership Frenzy in the Bioeconomy](#)

June 14, 2018 – by Jim Lane (Biofuels Digest) ... But it shows also what smaller companies can do when they partner effectively – whether that means industrial giants like ArcelorMittal or BASF, technology accelerator schemes like Unreasonable Impact, or ...

[Open Cell Launches Shipping Container Labs at Shepherd's Bush Market to Accelerate Biotech Start-Up Businesses](#)

June 12, 2018 – (SCIAD Newswire/Open Cell) Open Cell has joined forces with regeneration specialist, U+I, and the London Borough of Hammersmith and Fulham and SynbiCITE to launch a biolab to offer affordable spaces at the Old Laundry Yard in Shepherd's ...

[World's First Commercial Waste Gas to Ethanol Plant Now in Operation](#)

June 11, 2018 – by Helena Tavares Kennedy (Biofuels Digest) ... In Illinois, carbon recycling company, LanzaTech, and its joint venture partner, Shougang Group, a leading Chinese iron and steel producer, announced the successful start-up of the world's first commercial facility converting ...

[St1 Announces Biofuel Projects in Sweden, Columbia](#)

June 7, 2018 – by Erin Voegelé (Biomass Magazine) On May 25, Nordic energy group St1 announced plans for two separate biofuels projects. One aims to produce biofuels from tall oil in Sweden while the other will explore a combined ...

[CRB Innovations Inc.'s Integrated Biorefinery](#)

June 7, 2018 – (Sustainable Development Technology Canada) An integrated and energy self-sufficient biorefinery will be built and put into operation for the production of cellulosic ethanol and co-products. The sequential fractionation process will be complemented with a novel non-enzymatic ...

[In a First, Indian Oil Corporation to Channel Refinery Waste Gas for Ethanol Production](#)

June 7, 2018 – (Outlook India) In a first-of-its-kind venture in the world, Indian Oil Corporation is planning to utilise off-gases (waste gas) from various processing units of its refineries for production of ethanol. The move will reduce the carbon footprint of the ...

[The Digest's Top 10 Innovations for the Week of June 6th, 2018](#)

June 6, 2018 – by Jim Lane (Biofuels Digest) The pace of invention and change is just too strong, we've realized, to highlight annual or even quarterly or monthly rankings and summaries of significant product and service advances. For now, ...

[The Carbon Rescuers: 20 Top Waste Projects and Breakthroughs that Capture Used Carbon from the Waste Pile for New Uses](#)

June 5, 2018 – by Jim Lane (Biofuels Digest) In these top 20 projects, we usually say

that we are using waste, but really we are converting something from a state of waste to a state of value — and ...

Requests for Speakers, Posters, Presenters

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

Grants

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

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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)
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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. We'll send a special card acknowledging your gift.

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