

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.



Educational News and Resources

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Featured Stories

Mailings to Teachers Highlight a Political Fight Over Climate Change in the Classroom

Katie Worth, reporting in Frontline/The Groundtruth Project, explained that last spring, science teachers across the nation received unsolicited packages containing classroom materials from the Heartland Institute that reject the scientific consensus on climate change.

They were followed this spring by some of the same teachers opening packages containing very different materials: A book written by a Cornell University affiliate called “The Teacher-Friendly Guide to Climate Change,” which explains climate change in detail and included recommendations for how to teach the subject to children.

As Worth explains, in contrast to Heartland, which says it aimed to send its book to every middle school teacher, high school teacher and college instructor who covers the subject, **Alexandra Moore**, Paleontological Research Institution’s senior education associate and co-author of the book, and her team

based in Ithaca, New York that has received grants from the National Science Foundation to publish a series of “Teacher-Friendly Guides” for teaching earth science have been sending out a single hardcopy of the book to one science teacher or administrator in each public high school, plus CDs containing digital copies of the book for their colleagues.

So far, the group has raised \$70,000 on its [crowdsourcing page](#), and another \$30,000 in additional donations – enough to send the materials to about 50,000 teachers, Moore said. She estimates it will cost \$400,000 to send the book to every public high school in the country. [READ MORE](#)

Pam Miller of Siouxland Ethanol Educates Tomorrow’s Drivers

Using the Renewable Fuels Association’s [“Ethanol in the Classroom” curriculum](#) as a guide, **Pam Miller**, Board Chair and Director of Industry and Investor Relations for Siouxland Ethanol in Nebraska, says the students at Harney Elementary in South Sioux City Community Schools sat with rapt attention as she outlined how ethanol is produced, its environmental and economic impacts, and the overall use of the renewable fuel.

Two weeks after her classroom visit, Miller hosted the students for a tour at Siouxland Ethanol. [READ MORE](#)

Teacher Resources

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

[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 ...

[Teach Climate Scholarship Application for Summer Institute for Climate Change Education June 26-28, 2018 St. John's University, Collegeville, MN](#)

April 2, 2018 – (Climate Generation) We are excited to be able to offer scholarships for teachers to attend a professional development opportunity. These scholarships are made possible through the Teach Climate Teachers Scholarship Movement. Priority is given to demonstrated need and ...

[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 ...

[#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 ...

[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!

Find more [Teacher Resources here](#).

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

[Medford High School Students Tour Guardian Energy](#)

March 22, 2018 – (Minnesota Bio-Fuels Association) Thirty-seven students from Medford High School visited Guardian Energy in Janesville yesterday to gain a better understanding of clean Minnesota-produced renewable energy.

The students were briefed on the various processes of ethanol production at ...

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

[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 ...

[Student Travel Grants to the 2018 Algae Biomass Summit DEADLINE: April 15, 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 ...

[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](#)
-

[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

[Call for Young Researchers: 2018 Algae Biomass Summit](#)

April 2, 2018 – If you are a student, postdoc or early career professional interested in algae and algae-based technologies, the Algae Biomass Organization (ABO) would like to invite you to our 2018 Algae Biomass Summit, the world's largest algae conference.

This year's summit will ...

[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](#)

March 7, 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 ...

[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

Executive, Professional, Technical Training

[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 ...

[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 ...

[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 ...

[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 ...

Featured Study Programs

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

[Biofuel the Forgotten Renewable Energy, Report Says](#)

April 2, 2018 – by Cole Latimer (Sydney Morning Herald) Australia's biofuel

industry has the potential to add more than 8000 jobs and \$1 billion a year in revenue to the economy despite being neglected for more than a decade.

Queensland University ...

[Oyo Compensates Owners of Land Acquired for Cassava Plantation](#)

March 23, 2018 –(The Guardian Nigeria)The Oyo State government has paid compensation to about 77 families whose lands were acquired recently for mass production of cassava in Otu, near Iseyin. The Commissioner for Lands, Housing, and Survey, Mr. ...

[Boeing Promotes Aviation Biofuel in Africa](#)

March 22, 2018 –by Kaleyesus Bekele (AIN Online) The Boeing Company has teamed with the South African government, South African Airways (SAA), the Roundtable on Sustainable Biomaterials (RSB), the World Wide Fund for Nature (WWF), and U.S. energy ...

[USDA Biobased Economy Report Indicates Potential for Rural Prosperity with Renewable Chemicals](#)

March 22, 2018 – (Biotechnology Innovation Organization/Pharmiweb) The Biotechnology Innovation Organization (BIO) today applauded USDA’s release of a new report, “Indicators of the U.S. Biobased Economy.” The report measures substantial economic growth, job creation, and household income for the agricultural sector from ...

[Project Focus: Converting Dairy By-Products into High Value Bio-Based Chemicals.](#)

March 21, 2018 – (AgriChemWhey/Biobased World News) ... Producers that can access plentiful feedstocks with the minimum of fuss can have the best of

both worlds – exactly the position that Ireland finds itself in. The country is in the ...

[Facebook and Google's Surprising, Rising Prospects along Agriculture's Revolutionary Road](#)

March 21, 2018 – by Jim Lane (Biofuels Digest) If you haven't been to Ankeny, Iowa in recent years — situated between Des Moines and Ames, which is to say between the political and financial capital of the state and ...

[Trash Facility Director Aiming to Construct Alternative Biofuel Facility](#)

March 20, 2018 – by Andrea Ray (Sippican Week) If all goes as planned, the Zero Waste Solutions trash processing facility in Rochester could be among the first in the country to produce a renewable alternative to gasoline.

That's what Zero ...

[Bioeconomy Potential of Portugal, Romania and Poland Profiled in New BIC Country Reports](#)

March 20, 2018 –(Bio-based Industries Consortium) The Bio-based Industries Consortium (BIC) has published three new Country Reports mapping the potential and identifying opportunities for expanding the bio-based industry in Poland, Portugal and Romania.

Poland's bioeconomy sector is focused on agriculture, forestry and food processing, areas which ...

[New Biodiesel Mandate Starts on May 1, Johnson Says Minnesota Is Ready for B20](#)

March 20, 2018 – by Brandon Lewis (KTOE) Six weeks remain until Minnesota's new B20 mandate kicks-in on May 1.

House Representative Clark Johnson (D-North Mankato) says all evidence points to the state being ready to go ahead with the change.

“For ...

[Algility: The Digest’s 2018 Multi-Slide Guide to Algae as a New Crop and Technology Platform](#)

March 16, 2018 – by Jim Lane (Biofuels Digest) Algae has been reinvented in recent years as a Sustainable New Crop for Food, Feed, Fuel and other products. Part of an international effort to expand Agricultural Production and productive land, and keeping ...

[Op-Ed: Biofuel from Sugarcane – Why Is SA Not Rushing Ahead?](#)

March 15, 2018 – by Chris Ward (Daily Maverick) Support for diversification of the sugar industry provides a superb and immediate opportunity for the government of South Africa under its new president to create thousands of new jobs by leveraging ...

[Greenbelt Resources Signs Letter of Intent With Biofuels and Energy, LLC](#)

March 15, 2018 –(Globe Newswire/Greenbelt Resources) Greenbelt Resources Corporation (OTC:GRCO) (Greenbelt), the developer of a sustainable ECOsystem model that transforms waste into revenue generating bioproducts, today announced that it has signed a Letter of Intent (LOI) with Biofuels and ...

[NBB Highlights 5 Individuals’ Stories for National Biodiesel Day](#)

March 15, 2018 –(National Biodiesel Board/Biodiesel Magazine) ... In the U.S., nearly 3 billion gallons of clean, renewable fuel replacing its petroleum

counterpart. A thriving and growing diesel vehicle market. And 64,000 jobs supported by biodiesel, many the highest ...

[Bolivia Invests \\$1.6 Billion to Boost Output of Sugar-Based Ethanol](#)

March 15, 2018 – (Latin American Herald Tribune) A \$1.6 billion investment by 2025 will allow ethanol made from sugarcane represent 25 percent of fuels used in Bolivia, President Evo Morales said on Thursday.

The president was speaking at an event ...

[The Digest's 2018 Multi-Slide Guide to the 2018 Bioeconomy Business Outlook](#)

March 14, 2018 – by Jim Lane (Biofuels Digest) In Florida, The Digest reports that 72 percent of bioenergy executives are more optimistic about their organization's prospects for growth and 68 percent about industry growth, than 12 months ago. The ...

[Bioeconomy Execs Bullish on 2018, 74% of Companies Expect Revenue Growth, 62 Percent Expect Jobs Increase; 48% Seeking Finance](#)

March 14, 2018 – by Jim Lane (Biofuels Digest) In Florida, The Digest reports that 72 percent of bioenergy executives are more optimistic about their organization's prospects for growth and 68 percent about industry growth, than 12 months ago. The ...

[Leveraging the Power of Algae: The Digest's 2018 Multi-Slide Guide to Algenol](#)

March 13, 2018 – by Jim Lane (Biofuels Digest) Algenol is a global, industrial biotechnology company that is commercializing its patented algae technology platform for production of ethanol and other biofuels, chemicals and biobased materials.

Formed in 2006, and headquartered in ...

[It Doesn't Stink – North America's First Closed-Loop Waste Management System Opens](#)

March 12, 2018 – by Helena Tavares Kennedy (Biofuels Digest) In Canada, Surrey's Biofuel Facility officially opened in the Port Kells industrial area in the British Columbia province. The \$68 million facility is the first fully integrated closed-loop organic waste management system ...

[California Here I Come: Ethanol Industry Looking to California's Lucrative Low Carbon Market](#)

March 9, 2018 – by Jessie Stolark (Environmental and Energy Study Institute) Two recently announced major joint ventures from ethanol producers – one in the cellulosic and another in the first-generation space – are aimed at selling biofuels in California, ...

[Young Female Scientist Hopes to Create Energy Efficient Biofuel from Bacteria](#)

March 8, 2018 – by Emma Nobel (ABC Central Victoria News) Environmental microbiologist and science champion Marianne Haines hopes her work converting bacteria into biofuel will lead to more sustainable outcomes, and more women studying science at the postgraduate level.

Growing up ...

[BIO Publishes Fact Sheet on the U.S. Biobased Economy: Economic Impact](#)

March 8, 2018 – (Biotechnology Innovation Organization) The biobased economy is approaching a tipping point in its growth and maturation. A number of biotech companies have successfully commercialized technologies for renewable chemicals, built biorefineries and created supply chains – and now

...

[Biofuel to Supplement Oil Supplies](#)

March 7, 2018 – by Tryness Tembo (Zambia Daily Mail Limited) For any economy to grow, stable supply of fuel at affordable prices should be guaranteed hence for all sectors need readily -available fuel to operate effectively. For example, Zambia, which is ...

[New Study: Nearly 50,000 Iowa Jobs Tied to Biofuels](#)

March 6, 2018 – by Rod Swoboda (Wallaces Farmer) With a White House meeting being held last week to discuss the fate of the Renewable Fuel Standard, a new study finds nearly 50,000 Iowa jobs are tied to biofuels production.

Efforts ...

[Scania India Bets Big on Biodiesel, Not Evs – Mr Palskog](#)

March 6, 2018 – (Steele Guru/Auto News) ETAuto reported that when the auto industry is going gung hu about electric vehicles, Swedish commercial vehicle (CV) manufacturer Scania India is still betting big on biodiesel fuel. Mr Stefan Palskog, President of ...

Requests for Speakers, Posters, Presenters

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

Grants

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

Latest News about University/College Research

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

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

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