

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](#)

[View this email in your browser](#)



Featured Stories

SIGN UP NOW! Summer Institute for Climate Change Education

Climate Generation: A Will Steger Legacy empowers individuals and their communities to engage in solutions to climate change. This summer, they are providing an opportunity for you to join a network of teachers from across the country dedicated to bringing science, critical thinking, and problem solving about climate change into the classroom.

PARTICIPANTS WILL HAVE THE OPPORTUNITY TO:

- Hear from experts and scientists on their research on climate science and climate change solutions
- Engage with hands-on activities that help bring climate change concepts into your educational setting
- Dive deep into Climate Generation's Next Generation Climate curriculum, a six lesson, interdisciplinary, middle school climate change curriculum that has students investigate the cause of the global temperature change, research the major repercussions of climate change, and find out how they can monitor and minimize those repercussions
- Experience St. John's University's 3,000 acre Arboretum, the largest solar array in Minnesota, LEED certified buildings, and much more
- Network with other passionate educators who are incorporating climate change into their teaching [FIND OUT MORE](#)

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 and Contests
- Executive or Professional Training
- Online Courses
- Featured Study Programs
- Green Jobs in the News

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](#)

Teacher Resources

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

[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](#)

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

[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 ...

[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 ...

Find more [Teacher Resources here](#).

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

[Turning Prawns into Plastic: Schoolgirl Angelina Arora Fights Science Stereotypes](#)

December 12, 2017 –by Liam Mannix (Sydney Morning Herald) Angelina Arora was sitting in her local fish and chip shop looking at all the discarded fish waste. Piles of crab shells, prawn tails and fish heads. Kilos and kilos of it, all ...

There had to be a better way, the 15-year-old budding young scientist thought.

So she got a few kilograms of discarded shells, took them to her Sydney Girls High School science lab, and started experimenting.

Eventually, she managed to find a way to turn them into a strong, light and biodegradable plastic.

...

“The dream is to basically have every single plastic in the world made out of my plastic,” she said.

...

As part of an earlier project, she bought fish from her local fishmonger and cut them open. Inside, she found thousands of tiny fragments of plastic – telltale evidence of the huge amount of pollution humanity is continually dumping into the world’s oceans. ... [READ MORE](#)

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

[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 will open Feb. 1, 2018, and the student will be selected in April. [READ MORE](#)

[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. ...

[Renewable Fuels Foundation Offers February 2017 National Ethanol Conference Scholarship Program](#)

The NEC Scholarship Program, sponsored by the Renewable Fuels Foundation and the Renewable Fuels Association, seeks to attract students of higher learning who wish to pursue a career related to ethanol.

[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 ...

[Research Experience for Undergraduates Summer Program](#)

(Center for Bioplastics and Biocomposites) Starting with the summer of 2017, the Center for Bioplastics and Biocomposites (CB2), will be establishing a new Research Experience for Undergraduates (REU) site designed to provide undergraduate students ...

The REU program will continue for 3 years, i.e. Summer '17, Summer '18, and Summer '19.

[NIFA Announces \\$3.1 Million in Available Funding to Train the Next Generation of Agricultural Leaders](#)

(U.S. Department of Agriculture) The U.S. Department of Agriculture's (USDA) National Institute of Food and Agriculture (NIFA) today announced the availability of \$3.1 million to train the next generation of agricultural leaders. This funding is ... [NIFA grant website](#)

[Ciba Travel Awards in Green Chemistry](#)

This annual green chemistry award sponsors the participation of students—from high school through graduate school—to attend an American Chemical Society (ACS) technical meeting, conference, or training program, having a significant green chemistry or sustainability component. ...

[CBMNet Funding Announcements; Includes Undergraduate Vacation Scholarships](#) Various deadlines (Crossing Biological Membranes Network) At CBMNet we foster collaborations between academia and industry to tackle research challenges in Industrial Biotechnology and Bioenergy (IBBE). We are working to understand the mechanisms by which substances are transported into, ...

[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. In 2014, the Fellows were also hosted in Washington, D.C. for a three-day Presidential Summit featuring a Town Hall with President Obama. Following their in-depth academic coursework and leadership training, some Fellows remained in the United States to participate in eight-week professional internships with

American NGOs, private companies, and governmental offices. Selected from nearly 50,000 applications, participants in the 2014 Mandela Washington Fellowship for Young African Leaders represent the extraordinary promise of an emerging generation of entrepreneurs, activists, and public officials. Upon returning to their home countries, the Fellows have access to professional development opportunities, mentoring, networking and training, and seed funding to support their ideas, businesses, and organizations.

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

Competitions, Contests

[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 ...

[Biofuel Projects Named as Semi-Finalists in Ontario Competition](#)

by Erin Voegele (Ethanol Producer Magazine) The Ontario Centres of Excellence have announced 20 semi-finalists for Ontario's Solutions 2030 Challenge, which calls on innovators to propose solutions to help the province's industry reduce greenhouse gas (GHG) ...

[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.

[WEBINAR: How to Apply for an EPA P3 Grant — January 11, 2018](#)



Join us for an informational webinar on the U.S. Environmental Protection Agency's (EPA) 15th Annual P3 Awards: A National Student Design Competition Focusing on People, Prosperity and the Planet (P3) Request for Applications (RFA). Learn ...

Executive, Professional, Technical Training

[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 ...

[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.

[TerraTech on VoiceAmerica Wednesdays at 6AM Pacific Time](#)

TerraTech highlights new and sustainable products, companies and cutting-edge advances in the lab that are changing the way people dress, eat, drink, drive, build, package, protect, monitor, maintain and get well. Each week, TerraTech features ...

Online Courses

[Renewable Energy Market Trends and Finance Course — December 11-12, 2017 — Washington, DC and online](#)

October 18, 2017 – Understanding policies and finances – fast track to a renewable energy consultancy job. Organised by The George Washington University and the European Energy Centre (EEC) Two-day course

This course is also available as distance learning with live tutorial, ...

[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 ...

[@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

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

[Top 10 Bioeconomy Predictions for 2018](#)

January 3, 2018 by Jim Lane (Biofuels Digest) A mere “The Year in Rewind” as we sail into 2018? Not the good ship Digest! Instead, we dust off our crystal ball and offer our predictions for the year ahead.

As ...

[Perspectives on Biofuels in Sub-Saharan Africa](#)

December 22, 2017 – by Susan van Dyk, Emile van Zyl, Brett Pletschke (International Energy Agency Bioenergy Task 39) This short contribution provides some perspectives on opportunities for biofuel production on the African continent. Africa has a large land base, with ...

[Creative Financing Mechanisms: The Digest’s 2017 Multi-Slide Guide to Structures for Bioeconomy and Power Projects](#)

December 15, 2017 – by Jim Lane (Biofuels Digest) Bottom line, if you’re in the business of financing a renewable fuels project with a loan guarantee in the mix, you’re probably talking with some combination of New Energy Risk, Stern ...

[VIDEO: Planning Permission for Celtic Renewables’ Whiskey Waste to Biofuel Plant](#)

December 13, 2017 –(Waste Management World) Celtic Renewables has secured planning permission from Falkirk Council to build a commercial demonstrator plant, which will produce over half a million litres of biofuel each year from whiskey wastes.

Scottish biofuel start-up, Celtic Renewables ...

[The 12: The Advanced Bioeconomy’s 12 Biggest Talking, Fretting, Praying and Action Points Right Now](#)

December 13, 2017 – by Jim Lane (Biofuels Digest) ... What are the top trends? Here are the 11 we see dominating the debate on the stage and on the floor.

Jet fuel deployment – how much, how soon, by whom? ...

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](#).

Check Out [All](#) Our Free Monthly Newsletters

---**Educational News and Resources** newsletter with information about *teacher resources, scholarships, fellowships, competitions* and *contests*; and highlight articles about *green jobs* in the advanced biofuels world. [Subscribe](#)

---**Conference Calendar** and **US Federal Regulations, Legislation, Litigation, Policy** [Subscribe](#)

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

Help Us Continue to Provide Outstanding Service.

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.

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.

[Donate!](#)

[Subscribe](#)

SHARE!



Copyright © 2018 Advanced Biofuels USA, All rights reserved.

Want to change how you receive these emails?

You can [update your preferences](#) or [unsubscribe from this list](#)

