

A monthly newsletter dedicated to Advanced Biofuels Educational programs, projects, competitions, scholarships, fellowships, green jobs and more. [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 Stories

Tell an Inspiring Story to Move the Planet Forward — Enter to Win the Storyfest Award DEADLINE: March 2, 2018

Planet Forward, at George Washington University, Recognizes College Student-Told Stories Illuminating Environmental Issues and Solutions



Grand Prize: A storytelling trip to Alaska with Lindblad Expeditions. Grand prize winners will take a trip with [Lindblad Expeditions](#) for a once-in-a-lifetime storytelling expedition aboard the *National Geographic Sea Lion* next summer, exploring the incredible ecosystems of [Alaska](#) between Sitka and Juneau. Accompany Planet Forward founder and former CNN Washington Bureau Chief Frank Sesno on this 62-guest ship, led by a team of five naturalists plus an expedition leader. The ship's expert team will host talks, as well as offer guidance ashore, while Sesno will be your editorial guide to help shape the stories that will come from the experience.

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 hears the stories, progress will be slower.

To amplify these stories, annually Planet Forward at George Washington University hosts The Planet Forward Storyfest Awards, which recognize the best and most compelling student-told stories illuminating environmental issues and solutions.

The winning submissions represent the best examples of storytelling that make complex issues or ideas better understood.



It's open to college students of all majors and levels: undergraduate and beyond.

Grand prize winners will be announced at the 2018 Planet Forward Summit in Washington, D.C., on April 5-6.

The Planet Forward Storyfest Awards are looking for both substance in the story and creative execution.

Among the possible topics:

- **Mobility:** What's a better way to get around, reduce congestion, minimize the impact on the environment and

the climate?

Next, review the award categories and see where your story might fit:

- **Most Compelling Character:** The story of a character, told in a compelling way, is one of the key elements to a great story, no matter the topic. This prize will go to the story that best exemplifies this element.
- **Most Creativity in the Art of Environmental Storytelling:** This prize will go to the story that most creatively tells an environmental story, either through media format or storytelling technique.
- **Best Use of Science or Data in Environmental Storytelling:** This prize exemplifies explanatory storytelling, telling the story behind an innovation or using data to convey a story.
- **Best Scalable Innovation:** This prize will go to the best story about a scalable and inspiring innovation that has the greatest chance to change the world within the next five years.
- **Most Ambitious Idea:** Steve Jobs was a dreamer. Thomas Edison was an inspired inventor. Tell a story about what today's dream teams are working on for the future.
- **The GW Prize:** This prize will go to the best story in any of the previous categories coming from a George Washington University student.

Finally, choose the medium that best conveys the story you're sharing — audio, visual, video, text or a combination. Then, get started!

Be memorable. Have impact. Have fun. [READ 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 ...

[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 ...

[LBDS Publishes Sixth Edition of Its Alcohol Textbook](#)

(Lallemand Biofuels & Distilled Spirits/Ethanol Producer Magazine) Lallemand Biofuels & Distilled Spirits is pleased to announce the publication of the 6th edition of the Alcohol Textbook. The Ethanol Technology Institute (LBDS's educational arm) is proud ...

[Discovery Channel Documentary Spotlights Biodiesel](#)

November 10, 2017 – (National Biodiesel Board) HOT GREASE Debuts On-Air Next Week — They've been following us around for almost two years. Now, finally, the story of biodiesel will be shared with a large, national audience as Discovery's HOT GREASE makes its ...

Find more [Teacher Resources here](#).

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

[Heartland Corn Products Host Sibley East High School](#)

November 30, 2017 (Minnesota Bio-Fuels Association) Thirty-nine students from Sibley East High School in Arlington toured Winthrop's Heartland Corn Products on Nov 14 to gain a better appreciation and understanding on local renewable fuel production.

[School District Achieves 20-Year Milestone with Biodiesel](#)

November 21, 2017 – (Diesel Technology Forum) Medford Township Public Schools in Medford, N.J., this month celebrates the 20-year anniversary of its transition to cleaner-burning biodiesel in its school bus fleet. Medford is the nation's longest continuous user of biodiesel ...

[HTF – Siouxland Ethanol Tour](#)

November 13, 2017 by Jacob Heller (KMEG14/Siouxland News) ... A group of students from a South Sioux City elementary got a chance to learn how ethanol is made this week, by taking a tour of Siouxland Ethanol, outside of ...

[Morris Area High School Toured the Chippewa Valley Ethanol Company \(CVEC\)](#)

November 6, 2017 – (Minnesota Bio-Fuels Association) Thirty-five students from Morris Area High School toured the Chippewa Valley Ethanol Company (CVEC) plant today to get a better understanding of homegrown renewable fuel production.

The students, from grades nine to 12, toured ...

[Volunteers Needed for Maryland Science Bowl Competition on Jan. 13](#)

November 3, 2017 (Montgomery College) Montgomery College will again host the Maryland High School Science Bowl Competition for 2018 on Jan. 13 at the Rockville Campus. The winner of this regional competition advances to the National Science Bowl ...

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

[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 National Ethanol Conference Scholarship Program](#)

October 2, 2017 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. By offering scholarships that ...

[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.

[Argonne Opens Call for Second Cohort of Chain Reaction Innovations](#)

(U.S. Department of Energy/Newswise) Those who are selected for the Chain Reaction Innovations program will gain, among other things, access to Argonne National Laboratory's world-class R&D infrastructure and technical expertise.

[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.

[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 ...

[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

[Dreaming Green with Biodiesel](#)

November 13, 2017 – by Portia Mlilo (The Voice) Despite a recent setback, Mogotsi Samotongwa is determined not to give up on his dream. The Botho University accountancy student wants to produce biodiesel from animal fat and vegetable oil.

His idea saw him selected as a top ten finalist in the recently ended Citizen Entrepreneurial Development Agency (CEDA) and Development Bank of Southern Africa (DBSA) University Challenge.

Participants were required to come up with fresh, innovative ideas and implementable proposals that address the problems faced by Botswana. [READ MORE](#)

[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: Boosting Bottom Lines with Biochar — December 7, 2017](#)

BIOMASS

The buzz about biochar is getting louder, and as global market demand increases, bioenergy producers may have opportunities to capitalize. Join Biomass Magazine's Dec. 7 webinar for an expert discussion about biochar properties, uses and market ...

[WEBINAR: Overview of the Chemical Catalysis for Bioenergy Consortium: Enabling Production of Biofuels and Bioproducts through Catalysis — December 6, 2017](#)



The Chemical Catalysis for Bioenergy Consortium (ChemCatBio) is a national lab-led research and development consortium, funded by the U.S. Department of Energy's Bioenergy Technologies Office, which is dedicated to identifying and overcoming catalysis challenges for ...

[WEBINAR Series on Oil Release Planning, Prevention, Mitigation — Monthly Wednesdays August 16 – December 6, 2017](#) by Cindy Zimmerman (Energy.AgWired.com) The Renewable Fuels Foundation and Pinnacle Engineering are teaming up once again to sponsor a five-part webinar series for renewable fuel stakeholders about oil release planning, prevention and impact mitigation. The Renewable Fuels Foundation is the education ...

Executive and Professional Training

[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

[Maryland's Hood College Looks for Biofuels/Bioproductions Scientist/Teacher](#)

November 1, 2017 (Hood College) Hood College is pleased to announce an exciting new opportunity, funded in part by

the Maryland E-Innovation Initiative Fund (MEIF), administered by the Maryland Department of Commerce and the Hodson Foundation. The Department ...

[Now Deploying at Commercial Scale: The Digest's 2017 Multi-Slide Guide to Clariant's Sunliquid Cellulosic Ethanol Technology](#)

November 30, 2017 –by Jim Lane (Biofuels Digest) Clariant's sunliquid technology for the conversion of lignocellulosic biomass into sugars, followed by fermentation to cellulosic ethanol, is flexible to be used to convert different feedstocks on a regional basis, for ...

[Lead, Squabble or Waffle Away: Shuffling the Deck on Global Bioenergy](#)

November 28, 2017 – by Gerard Ostheimer and Douglas L. Faulkner (Biofuels Digest) ... In the U.S., fighting between Big Ag and Big Oil over first-generation biofuels is slowing the deployment of advanced biofuels projects. This further undercuts the industry in ...

[NRL Pact with Biren on Bamboo](#)

November 27, 2017 – (The Telegraph) Numaligarh Refinery Ltd on Wednesday signed a memorandum of understanding with Manipur to source bamboo for its upcoming bio-refinery.

The MoU was signed between Bruno Ekka, the senior chief general manager (marketing and business development), ...

[The Digest's 2017 Guide to the 20 Top European Biorefinery Projects](#)

November 23, 2017 by Jim Lane (Biofuels Digest) You won't hear it from the NGOs orbiting Brussels who have long figured out that bashing biotechnology is good for the fund-raising cash register, but Europe has become the hottest ...

[Australian Researchers Lead Way in Developing Sustainable Biofuel Technology](#)

November 21, 2017 – by Cecilia Connell (ABC News) An Australian-first biofuel demonstration facility in the New South Wales Hunter Valley has been touted as a game-changer in the food versus fuel debate, that has overshadowed the production of ethanol ...

[UW Entrepreneurial Pipeline Lands Lactic Solutions in Biofuels Marketplace](#)

November 21, 2017 – by Natasha Kassulke (University of Wisconsin-Madison) When Jim Steele thinks back over the last seven years, from the early research on biofuels, followed by a dream of moving Lactic Solutions LLC technology to the marketplace, and ...

[Is This the Crop That Saves Florida Agriculture?](#)

November 16, 2017 – by Tom Schenk (Terviva/Biofuels Digest) ... Directly and indirectly, Florida's citrus industry creates almost 45,000 jobs which translate to almost a \$9 billion contribution into Florida's economy. Today's citrus industry has shrunk by well over half ...

[30 Hot Cellulosic Technologies, 30 Quick Takes](#)

November 14, 2017 – by Jim Lane (Biofuels Digest) Last week, DowDuPont said it was exiting the cellulosic biofuels business and you'd think that the company just burned down the warehouse with the original text of the Renewable Fuels Standard ...

[Former Army Captain: Ethanol Industry a 'Natural Fit' for Veterans](#)

November 13, 2017 by Emily Druckman (Renewable Fuels Association) ... What most Americans may not know, however, is that thousands of veterans have continued to make our nation stronger and more secure by choosing careers in the ethanol industry ...

[Brazil's Biodiesel Output to Grow 31 pct Next Year -Abiove](#)

November 10, 2017 – (Reuters) Brazil's biodiesel output was forecast to rise by 31 percent in 2018, industry group Abiove said on Thursday, after the government advanced a much anticipated increase in the amount of the biofuel required to be ...

[Advanced Bioeconomy Horizons: The 5 Top R&D Trends Right Now](#)

November 10, 2017 – by Jim Lane (Biofuels Digest) Catalytic reaction rates, microcrystalline cellulose, cyanobacteria working in teams, vertical farming, vegan products & markets. The 5 top disruptive techs we've seen in recent weeks are attacking these fronts.

[The Public Pulse: Investing in Biofuels Pays off](#)

November 7, 2017 –by Brendan Sullivan, Kyle J. Nixon (World-Herald) Novozymes was honored to have Nebraska Gov. Pete Ricketts join us earlier this year to announce a \$36 million expansion in Blair, Nebraska, where we're pioneering technologies that will ...

[Chicago! Fulcrum BioEnergy Picks the Midwest Hub for Its Next MSW-to-Jet Fuel Project](#)

November 7, 2017 – by Jim Lane (Biofuels Digest) From California we received the news that Chicagoland has been selected as the site of Fulcrum BioEnergy's second commercial-scale waste-to-fuels biorefinery.

We reported last month that the long-awaited financing was completed for Fulcrum ...

[US Congress Act 'Would' Fix Biogas and AD Tax Credit Inequality](#)

November 7, 2017 – (Bioenergy Insight) The American Biogas Council (ABC) has welcomed the introduction of a new bill in Congress which would extend the renewable electricity tax credit to include anaerobic digestion (AD) and biogas technology.

Congresswoman Elise Stefanik's bill, ...

[Nigeria's NNPC Signs MoU to Build Biofuel Plant](#)

November 2, 2017 – (Platts) Nigeria plans to build a 65 billion liters/year biofuel plant to boost supply of clean fuels in the country, state-owned Nigerian National Petroleum Corp. said Wednesday.

NNPC signed a Memorandum of Understanding with the Southwest Ondo state government ...

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Grants

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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 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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