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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.

New Free Newsletter from Advanced Biofuels USA: Educational News and Resources

Introducing an Advanced Biofuels USA **Educational News and Resources** newsletter that will include information about *teacher resources, scholarships, fellowships, competitions* and *contests*; and highlight articles about *green jobs* in the advanced biofuels world. We would also like your suggestions about content. **Call 301-644-1395 or email [info @ AdvancedBiofuelsUSA.org](mailto:info@AdvancedBiofuelsUSA.org) with your ideas.** Thanks.

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Featured Story

Science from Scientists, an educational nonprofit that puts scientists into classrooms in a structured program



A critical component of the Science from Scientists philosophy is the need to send real, charismatic scientists into the classroom, during school every-other-week for the entire school year. SfS has always been a during school program because they believe that every child should have the opportunity to be exposed to

STEM, not just those in after school programs who are already interested, or whose parents sign them up.

The goal of Science from Scientists is also to improve student attitudes towards STEM by providing, role-model scientists in the classroom who have other interests and hobbies, helping students to understand that scientists are often well-rounded individuals, not the stereotype frequently portrayed.

During a break during the Advanced Bioeconomy Leadership Conference, a scientist

described an example of such stereotypes.

He recounted enjoying Saturday morning TV with his child, just the two of them sharing time together. And, how he kept turning the channels whenever an image appeared of the mad scientist, the scary chemist, the bad person that scientists were portrayed to be.

He wanted his child to see scientists, and his chosen profession, as positive, contributing good to society. He was amazed at how often children were exposed to the negative stereotype; and how rarely they were encouraged to see science as positively productive and exciting.

To find more about Science from Scientists for your local schools--or as something you as a scientist, engineer, mathematician, technology expert, would like to contribute time to, go to www.ScienceFromScientists.org. Take a look at the lessons and kits: www.sciencefromscientists.org/lessons

Educational News and Resources

Teacher Resources

[Bioenergy Gets Graphic with New Illustrated Guide to the Subject](#)

March 22, 2017

(University of Manchester) A new graphic novel which addresses the big questions around bioenergy and climate change is being launched by The University of Manchester ahead of a major conference this week. In a unique collaboration ...

[Education: NEWBio Teacher Training Workshop DEADLINE:](#)

March 14, 2017

(NEWBio) Spend a week (July 10-14, 2017) at University Park (Penn State) learning about current bioenergy research from nationally recognized faculty. Renewable Energy alternatives are vital for the health of our planet, and the NEWBio ...

[Heard in the Hallway at ABLC--Science from Scientists, a Teacher Resource](#)

March 6, 2017

by Joanne Ivancic* (Advanced Biofuels USA) It's the personal connections you make at conferences that provide that added value that webinars and online learning just can't beat. That's how I found out about Science from ...

[Advances in Biofeedstocks and Biofuels, Volume One: Biofeedstocks and Their Processing](#)

February 18, 2017

(Scrivener Publishing) The most comprehensive and up-to-date treatment of all the possible aspects for biofeedstock processing and the production of energy from biofeedstocks.

Audience

Chemical engineers, petroleum engineers, process engineers, students in chemical engineering, biotechnology, petroleum engineering, ...

[Energy Beet Display and Children's Carbon Cycle Handout Big Hits at Keystone Farm Show](#)

January 16, 2017

by Joanne Ivancic* (Advanced Biofuels USA) Highlighting Advanced Biofuels USA's work on a feasibility study of the University of Maryland Eastern Shore energy beet project proved to attract many visitors and a bit of buzz ...

[Youth Explore Biofuel as Renewable Energy](#)

January 3, 2017

(Michigan State University Extension) Youth can explore biofuel at 4-H Renewable Energy Camp and through other 4-H science programs. — ... You can help youth explore biofuels by guiding them through an activity that shows how ...

Scholarships, Fellowships, Competitions

[CALL FOR ABSTRACTS and STUDENT POSTERS: tcbiomass2017 — September 19-21, 2017 — Chicago, IL DEADLINE: April 15, 2017](#)

March 14, 2017

Researchers and technology developers are invited to share their process innovations and insights to enable the production of clean heat and power, transportation fuels, chemicals, biochar, and other high-value products. Undergraduate and graduate students whose ...

[Science & SciLifeLab Prize for Young Scientists DEADLINE: July 15, 2017](#)

March 13, 2017

(Science Magazine) This Prize was created to recognize that global economic health is dependent upon a vibrant research community and we need to encourage our best and brightest to continue in their chosen fields of ...

[Education Internships at Idaho National Laboratory](#)

March 14, 2017

(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 ...

[National Black Farmers Association Scholarship Program Applications Requested](#)
[DEADLINE: April 28, 2017](#)

February 28, 2017

FCA (Fiat Chrysler Automobiles) Foundation has established a scholarship program to assist African American farmers, their dependent children and other African American students who plan to continue their education in college or vocational school programs. The ...

[Association of Commonwealth Universities' Early Career Academic Grants](#)

February 16, 2017

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 —](#)

February 16, 2017

(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

...

[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

...

[Global Biobased Business Competition \(G-BiB\)](#)

(BE-Basic Foundation) The Global Biobased Business competition (G-BiB) is a competition for Master and PhD students from universities and universities of applied sciences in Germany, the Netherlands and Brazil. The objective of G-BiB is to stimulate entrepreneurship and innovation producing a biorenewable ...

[Minnesota Student #Biodiesel Contest Adds Video](#) Deadline April 7, 2017

by Joanna Schroeder (Energy.AgWired.com) The Clean Air Choice® Biodiesel Scholarship contest offers high school seniors awards to help with college. Now in the eighth year of the program, students may submit a short video of ...

[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 ...

[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](#).

Green Jobs

Articles that feature jobs in the advanced biofuels world

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

March 22, 2017

(National Biodiesel Board/Biodiesel Magazine) ... (Rudolf) Diesel, who invented the engine that bears his name, ran early models on peanut oil, and was an ardent believer in vegetable oil-based fuel. That's why the biodiesel industry ...

[CBA Event Highlights California's Thriving Biodiesel Market](#)

March 14, 2017

by Celia DuBose (California Biodiesel Alliance/Biodiesel Magazine) Jennifer Case, chair of the California Biodiesel Alliance, ended her opening address at the sixth annual California Biodiesel Conference March 1 in Sacramento with one simple message: The world ...

[Whisky Business: The Digest's 2017 Multi-Slide Guide to Celtic Renewables](#)

March 13, 2017

by Jim Lane (Biofuels Digest) In uniquely combining the whisky by-products, Celtic Renewables Ltd adapt the traditional Weizmann Fermentation process (also known as ABE fermentation) to a brand new and entirely sustainable novel substrate – ...

[Ethanol Keeps Growing Economic Impact](#)

March 13, 2017

by Cindy Zimmerman (Energy.AgWired.com) ... According to the latest study by ABF Economics, the U.S. ethanol industry added \$42.1 billion to the nation's gross domestic product in 2016 and supported nearly 340,000 jobs. "The ethanol industry ...

[Tuscaloosa's Inventure Is Changing the Way We Look at Waste](#)

March 8, 2017

by William Thornton (AL.com) In a non-descript 40,000-square-foot building not far from the popular Tuscaloosa restaurant Waysider, a group of chemists and engineers are finding uses for the world's industrial food-related waste. Inventure is making industry ...

[Jobs and Money Take Top Billing with American Biodiesel](#)

March 8, 2017

(National Biodiesel Board) Industry Leaders Showcase biodiesel benefits with key influencers — When it comes to American biodiesel, jobs and economic opportunities are the hot tickets. In town from across the nation, biodiesel industry leaders ...

[Ethanol Brings \\$2 Billion Per Year to Minnesota's Economy](#)

February 28, 2017

(Minnesota Bio-Fuels Association/Ethanol Producer Magazine) The ethanol industry continued to boost Minnesota's economy in 2016, contributing \$1.98 billion to the state's gross domestic product (GDP).

A new study released by ABF Economics, which was commissioned by ...

[Government Policy Action Is Key to the Large-Scale Deployment of Aviation Biofuels, Hears ICAO Seminar](#)

February 24, 2017

(GreenAir Online) Although sustainable alternative fuels are key to meeting the aviation sector's long-term emissions goals, supportive government policies are required to bring these fuels to global deployment. This was a central theme of last ...

[Study: U.S. Ethanol Industry Makes "A Significant Contribution to the Economy"](#)

February 24, 2017

(Renewable Fuels Association) The U.S. ethanol industry added \$42.1 billion to the nation's gross domestic product and supported nearly 340,000 jobs in 2016, according to a new study commissioned by ABF Economics. The study, released ...

[Back on Track: The Digest's 2017 Multi-Slide Guide to the RFA Ethanol Outlook](#)

February 24, 2017

by Jim Lane (Biofuels Digest) Looking to better understand the outlook for the US ethanol industry, but lack the time to wade through the entire 40-page Ethanol Outlook 2017 from RFA (which is right here, ...

[Ethanol, the Key to Recovery of the Farm Economy](#)

February 23, 2017

by Gary Truitt (Hoosier Ag Today) The U.S. ethanol industry added \$42.1 billion to the nation's gross domestic product and supported nearly 340,000 jobs in 2016, according to a just released study. The report suggests ...

[Fact Sheet: Jobs in Renewable Energy and Energy Efficiency \(2017\)](#)

February 17, 2017

(Environmental and Energy Study Institute) The U.S. Bureau of Labor Statistics (BLS) defines green jobs as either "jobs in businesses that produce goods and provide services that benefit the environment or conserve natural resources" or ...

[The Next Step in the Bioeconomy – Looking Beyond Fuels](#)

February 13, 2017

by Jessie Stolark (Energy and Environmental Study Institute) The Department of Energy's Bioenergy Technologies Office (BETO), in the Office of Energy Efficiency, Renewable Energy (EERE), released its updated strategic plan in January. Revised every five years, ...

[Imagine, with Us!: AkzoNobel Issues an Innovation Challenge to the Advanced Bioeconomy](#)

February 7, 2017

by Jim Lane (Biofuels Digest) AkzoNobel is launching Imagine Chemistry, an exciting opportunity to partner with start-up firms, students, research groups and career scientists from across the world to jointly exploit the knowledge of chemistry ...

[The Emperor's New Jobs](#)

February 6, 2017

by Jim Lane (Biofuels Digest) Among biodiesel's amazing growth stats is word from LMC International that the 2.1 billion gallons of biodiesel and renewable diesel used by Americans in 2015 supported \$8.4 billion in economic ...

News from and about Schools (K-12)

[A First-Hand Report: Competing in MIT'S THINK Science Competition](#)

February 27, 2017 –

by Erika Tan* (Advanced Biofuels USA) Let me introduce myself – my name is Erika Tan, and I'm a current sophomore attending Freehold High School in New Jersey. If someone had told me at the ...

[Student Scientist Uses Algae to Filter out Lead Contaminated Water](#)

February 5, 2017 –

A senior at Tucson, Arizona's Immaculate Heart High School, Amanda Minke's goal is to find ways to create clean lead-free water for small rural communities around the world. For the Regeneron Science Talent Search competition ...

[Contest Winners from Waukee and Treynor Focus on Benefits of E15 and Biodiesel](#)

February 2, 2017 –

(Iowa Renewable Fuels Association) The Iowa Renewable Fuels Association (IRFA) "Fuel the Future" High School Video Contest gives students a chance to grow their expertise in the fuel and technology of a new generation. This ...

[In America's Heartland, Discussing Climate Change Without Saying 'Climate Change'](#)

February 2, 2017 –

by Hiroko Tabuchi (The New York Times) ... Here in north-central Kansas, America's breadbasket and conservative heartland, the economic realities of agriculture make climate change a critical business issue. At the same time, politics and social ...

For the latest on competitions--announcements of new contests, plus results, [click here](#).

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.

Grant Opportunities

For a list of grant opportunities, [CLICK HERE](#).

Let us know what you would like to see in this Advanced Biofuels Education Newsletter.

If you have contributions, lesson plans, experiments or news you would like to share, please contact

Joanne Ivancic at [info @ AdvancedBiofuelsUSA.org](mailto:info@AdvancedBiofuelsUSA.org)
or call 301-644-1395

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Make YOUR Contribution Today!

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

You can now make a secure donation to Advanced Biofuels USA via PayPal by clicking on the "[Donate](#)" button above. It's quick, easy and safe. Make it a year-long gift by making monthly installments automatically.

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