

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

Influence--This Month's Theme

Sinclair Community College Clears Snow Using Biodiesel Fuel Made from Recycled Cooking Oil

(WHIO TV) While clearing snow is a chore for most people, it gives Sinclair Community College an opportunity to teach students about chemistry and engineering while saving money.

The college teaches students how to recycle cooking oil into biodiesel fuel that is then used to power its snow blowing and grass...

[Read Full Article](#)

USGC Expands Its Ethanol Offerings At Grains.org

(U.S. Grains Council) New information about global market development efforts for U.S. ethanol and the benefits of the biofuel to global customers is now available online at www.grains.org.

The United States is the world's low-cost ethanol producer and captured more than 65 percent of global ethanol trade in the 2017/2018 marketing year...

[Read Full Article](#)

EnergyPath and EnergyCamp 2019: “Financing the Energy Future” — July 22-25, 2019 — Center Valley, PA

EnergyPath is the region's largest sustainable energy event, attracting industry professionals, policymakers and academia throughout the region and across the United States.

The goal of EnergyPath is to increase the knowledge of and passion for sustainable energy in the leaders of today and tomorrow.

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Advanced Biofuels USA Makes Presentation Slides Available

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

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

[iGEM Competition Registration to Open in February; iGEM Jamboree — October 31-November 4, 2019 — Boston, MA](#)

iGEM's main program is the iGEM Competition. The iGEM competition gives students the opportunity to push the boundaries of synthetic biology by tackling everyday issues facing the world. Made up of primarily university students, multidisciplinary teams work together to design, build, test, and measure a system of their own design...

January 15, 2019 [Read Full Article](#)

[A 14-Year-Old California Engineer Transformed Paper and Cotton Into Plastic](#)

by Sarah Sloat (Inverse.com) Jacqueline Prawira has competed in science fairs since she was in fourth grade. ... That science fair was one of many competitions that eventually took Prawira to the nation-wide 2018 BROADCOM Masters tournament in Washington, D.C., where she showed off her work in creating biofiber plastics, created from paper...

January 8, 2019 [Read Full Article](#)

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**

[Become an ABO Intern!](#)

(Algae Biomass Organization) Students – Are you interested in doing more for your industry while completing your degree? Help define the algae sector of today and shape the industry of tomorrow as an Algae Biomass Organization volunteer virtual intern. Internships of 8-12 weeks are available and are completely online. Interns serve...

[Read Full Article](#)

[\\$500 Student Travel Grants to the 2019 Algae Biomass Summit](#)

(Algae Biomass Organization) Get your abstracts for the 2019 Algae Biomass Summit ready! The Algae Foundation has announced that it is offering \$500 travel grants to attend the 13th Annual Algae Biomass Summit in Orlando, Florida, from September 16-19, 2019. More information on the Mary Rosenthal Student Travel Grant can be...

[Read Full Article](#)

[Ethanol Conference Scholarship Winners](#)

by Cindy Zimmerman (Energy.AgWired.com) The Renewable Fuels Association and the Renewable Fuels Foundation have awarded two student scholarships for the 24th annual National Ethanol Conference next month in Orlando. This is the tenth consecutive year in which this scholarship has been made available to students. This year's scholarship winners are Krista Russell and...

[Read Full Article](#)

[Research Experiences for Undergraduates \(REU\)](#) [DEADLINES: May 24, 2019 \(4th Friday in May\) and](#) [August 28, 2019 \(4th Wednesday in August\)](#)

(National Science Foundation) The Research Experiences for Undergraduates (REU) program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. REU projects involve students in meaningful ways in ongoing research programs or in research projects specifically designed for the REU program...

[Read Full Article](#)

[Environmental and Energy Study Institute Offers](#) [Washington, DC-Based Internships](#)

(Environmental and Energy Study Institute) Interns have the opportunity to learn the inner workings of an environmental nonprofit while contributing to our work advancing sustainable energy. EESI is an independent 501(c)(3) non-profit organization established in 1984 by a bipartisan Congressional caucus to provide timely information and develop innovative policy solutions...

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[Entrepreneurial Impact: The Digest's 2018 Multi-Slide](#) [Guide to Cyclotron Road NEXT APPLICATIONS FALL](#) [2019](#)

Cyclotron Road is a fellowship program affiliated with the Lawrence Berkeley National Laboratory that supports leading entrepreneurial scientists as they advance a project with the potential for global impact. Since 2015, more than \$15 million has been

awarded to 41 fellows who have gone on to generate more than \$75...

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

Competitions, Contests

[Now Open for Entries: 2019 Bio-Based World News Innovation Awards DEADLINE: February 15, 2019](#)

(Bio-Based World News) Innovation is at the heart of the Bio-Based World Community, from our news portal and Quarterly magazine, to our growing social media platforms and our newly launched reports and webinars, right through to our flagship event, World Bio Markets. For us innovation takes many forms and we...

[Read Full Article](#)

[Sky's the Limit Challenge: Win up to \\$5M for Sustainable Aviation Fuel DEADLINES: Green Aviation Fuels Innovation Competition: February 1, 2019; Cross-Canada Flight Competition: March 1, 2019.](#)

by Myra Bredin (MentorWorks) ... To address the goal of a widespread adoption of sustainable aviation fuel, the Impact Canada Challenge Platform has created the Sky's the Limit Challenge. The Sky's the Limit Challenge seeks to reduce greenhouse gas emissions from aviation and promote the development of sustainable aviation fuel

supply chains in Canada. It...

[Read Full Article](#)

[ACT Expo to Recognize Sustainable Transportation Leaders Nomination DEADLINE: February 22, 2019](#)

(ACT News) The Advanced Clean Transportation (ACT) Expo Fleet Awards are the ultimate recognition of fleet operators who show true leadership in clean transportation—having gone above and beyond to achieve sustainability in their transportation operations. To nominate a fleet, complete the one-minute nomination form by Friday, February 22nd. Awards categories include: “In It...

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[Student Education and Activities at 2019 GC&E Conference and 9th Annual GSC Conference](#)

The 2019 GC&E Conference and 9th Annual GSC Conference provides a perfect venue to present your research, deepen your understanding through sessions and workshops, network with green chemistry and engineering leaders, and meet fellow peers around from around the world. POSTER COMPETITION Students participating in the poster session have a...

[Read Full Article](#)

[NAMA Launches Student Sales Competition](#)

by Chuck Zimmerman (Energy.AgWired.com) The National Agri-Marketing Association (NAMA) is announcing plans to launch a new competition for student members in conjunction with the 2019 Agri-Marketing Conference in Kansas City. The competition will take place on Tuesday, April 9. The Student NAMA Sales Competition

is an individual sales call skills challenge. With this...

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[Enter 2019 Storyfest; Win Trip to Galápagos Islands](#)

(Planet Forward) Tell an inspiring story to move the Planet Forward. Enter to win our Storyfest Award. Grand Prize: A storytelling voyage through the Galápagos Islands with Lindblad Expeditions and Planet Forward in August 2019! In every corner of the planet, amazing people are working hard to figure out solutions to the environment's biggest ...

[Read Full Article](#)

[PROPOSALS WANTED: Electrical Storage Start-ups](#)

(EIT InnoEnergy) Got a brilliant innovation idea in the electrical storage area, and want to take it to market or scale-up? You could win €100,000 as well as investment and business support to grow your business from the world's biggest sustainable player backed by a trusted ecosystem. Your idea should...

[Read Full Article](#)

[Canadian Competition Aims to Develop Sustainable Aviation Fuels DEADLINE: February 2019](#)

by Erin Voegelé (Biomass Magazine) Natural Resources Canada recently announced the Sky's the Limit Challenge, which aims to stimulate the development of sustainable aviation fuel supply chains. The challenge consists of two competitions and aims to reduce greenhouse gas (GHG) emissions and lower the environmental footprint of flying. While the Canadian ...

[Read Full Article](#)

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: Perception and Positions of Stakeholders Towards Bioenergy — February 5, 2019](#)

Perceptions and positions of stakeholders towards bioenergy vary widely, depending amongst others on the type of feedstock used, conversion technology and end-use, regional settings etc. In this webinar, we first present the viewpoints and positions of international stakeholders based on insights from over 200 questionnaire responses (on topics such as awareness, barriers, challenges...

[Read Full Article](#)

[WEBINAR: 2018 Chemical Policy Summit Series Part V: Chemical Regulation After the Mid-Terms: Who's In, Who's Out, and What's Up? — TBD postponed due to government shutdown February?](#)

This is a complimentary program sponsored by Bergeson & Campbell, P.C. Our webinar has been postponed due to the lapse in appropriations funding the U.S. Environmental Protection Agency (EPA) and subsequent impact on participation by some members of our panel. The webinar will be rescheduled as soon as EPA's...

[Read Full Article](#)

[WEBINAR: RFA, TRANSCAER to Host Four Ethanol Safety Webinars in 2019 — January 15, March 19, July 2, August 13](#)

(Renewable Fuels Association) The Renewable Fuels Association, in partnership with TRANSCAER®, will host four ethanol safety webinars in 2019, beginning next month. The first webinar will be held on Jan. 15, followed by March 19, July 2, and Aug. 13. The “Train the Trainer” webinars are funded through a Federal Railroad Administration/TRANSCAER® grant...

[Read Full Article](#)

[WEBINARS: The Digest’s Early Stage Webinar Series — On-going](#)

This weekly one-hour webinar series will bring you hundreds of slides, perspectives, voices introducing the hottest emerging technologies, applications, markets and players in the bioeconomy. It’s free, and you register once via a one-time sign-up, and then you’ll receive an exclusive alert on each weekly line-up, with your private URL...

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[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

For more information about [Executive, Professional, Technical Training](#) click on those topics along the right margin of the [Advanced Biofuels USA website](#).

[BIOGAS #HANDS ON International Engineering & Operating Training — May 7-15, 2019 — Stuttgart, Germany](#)

SAVE THE DATE This 7-day training is IBBK's premium course. The many years of experience of the German biogas experts enable the worldwide transfer of know-how through lectures and interactive workshops. The integrated lab session as well as the visits to four unique biogas plant operations in Southern Germany complement the facts with practical insights...

December 21, 2018 [Read Full Article](#)

[3-Day Seminar BIOGAS#TRAINING — March 11-13, 2019 — Johannesburg, South Africa](#)

The 3 day training seminar focuses on the biogas market in Africa with attention to the local characteristics of substrate selection, plant engineering, and biogas utilization. You will get practical knowledge about biogas plant operation, maintenance and the presented case studies will highlight the best methods of biogas production from biomass waste...

December 21, 2018 [Read Full Article](#)

[International and Irish Intensive Biogas Training: Practical Plant Planning, Digester Biology, Biogas and Digestate](#)

[Upgrading — February 19-22, 2019 — Enniskillen, Northern Ireland, UK](#)

This 4 day in-depth course will provide you with practical hands on knowledge. You will learn to master today's plant operation challenges with skill. If you are A biogas plant operator or staff A farmer planning to operate an AD facility Working as a government official that is engaged with AD and...

December 21, 2018 [Read Full Article](#)

[Industrial Biotechnology – for Non-Biotechnologists — April 10-12, 2019 — Copenhagen, Denmark](#)

Through presentations, exercises and plenary discussions participants will acquire solid knowledge of fundamental biochemistry and molecular biology and obtain an understanding of essential methods used in the biotech industry. The course enables participants to better understand and communicate with their R&D colleague's and partners, by providing participants with the necessary background needed to understand the development...

December 5, 2018 [Read Full Article](#)

Online Courses

[ISO Greenhouse Gas Standards Training for Organizations, Verifiers, and Oversight Bodies](#)

Futurepast offers six courses on verification and validation of GHG statements that can be taken individually, or as a package for a discounted price. The courses are

interactive and available 24-hours a day. In accordance with ASTM E2659-18, a certificate will be awarded for individuals who have successfully completed a...

[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

[French Fuel Price Revolt Boosted Ethanol Use – Industry Officials](#)

by Gus Trompiz (Reuters) Public anger in France over increasing fuel prices, which gave rise to the anti-government “yellow vest” movement, has further boosted demand for crop-based ethanol fuel from motorists seeking cheaper deals, industry representatives said on Tuesday. Ethanol, which is blended with gasoline as part of renewable energy policy...

January 31, 2019 [Read Full Article](#)

[Washington May Require More Climate-Friendly Motor Fuels](#)

by Brad Shannon and Carolyn Bick (INVESTIGATEWEST) ... The biodiesel-to-be that is being sucked into (Chad) Peters’ truck, like much of what’s collected in Washington, will help reduce climate-wrecking carbon emissions not in the Evergreen State but across the border in Oregon. There, lawmakers have required progressive reductions in the amount of...

January 31, 2019 [Read Full Article](#)

[Why Disney World Is Betting on Clean Energy](#)

(Forbes/Environmental Defense Fund) ... Our buses that transport guests were also one of the first fleets in the nation and among the largest in Florida to use R50 renewable diesel fuel. The fuel is made from used cooking oil and non-consumable food waste. To date, our entire bus fleet has been...

January 29, 2019 [Read Full Article](#)

[U.S. Energy Outlook Report Underscores Need for Higher Ethanol Blends](#)

(Growth Energy) Federal forecasts in the U.S. Energy Information Administration's (EIA) newly released Annual Energy Outlook 2019 (AEO2019) underscore the importance of delivering cleaner, lower cost options to the fuel pump, said Chris Bliley, vice president of regulatory affairs at Growth Energy. "America's thirst for clean, affordable fuel options is set..."

January 29, 2019 [Read Full Article](#)

[Promoting Citizen-Orientated Climate Protection in Transport](#)

(Union for the Promotion of Oil and Protein Plants (UFOP)) On the occasion of the new edition of the brochure "Good Reasons for Biofuels", the Union for the Promotion of Oil and Protein Plants (UFOP) determines that the importance of biofuels as a tool for decarbonising the transport sector is...

January 29, 2019 [Read Full Article](#)

[UK Commercial Truck Fleets Can Now Access Liquefied Biomethane](#)

(Gasrec/NGV Journal) Commercial vehicle fleets running on LNG can now take advantage of the same huge CO2 savings being achieved by CNG trucks running on biomethane, following a significant move by fuel provider Gasrec. The firm has become the first in the UK to offer customers access to Renewable Transport Fuels...
January 28, 2019 [Read Full Article](#)

[On Tap: Retailers Preparing for Year-Round E15 Have Options for Pumps, Financing and Marketing.](#)

by Matt Thompson (Ethanol Producer Magazine) ...(W)ith the U.S. Environmental Protection Agency expected to extend the Reid vapor pressure (RVP) waiver to E15, hopefully before next summer's driving season. Retailers will have to decide not only if they will offer the blend, but how they'll dispense it. For those who...
January 25, 2019 [Read Full Article](#)

[Diesel Vehicles Powered by Biodiesel Are in It for the Long Haul](#)

(National Biodiesel Board) Automakers and Industry Associations Confident the Future Includes Clean Diesel Technology — Attendees at the National Biodiesel Conference in San Diego today got a glimpse into the future as equipment manufacturers, industry experts, and fleets detailed why diesel engines, powered by low carbon biodiesel blends, will continue to be...
January 23, 2019 [Read Full Article](#)

[Biodiesel Growth and the Demand for Low-Carbon Fuel](#)

by Amie Simpson (Brownfield Ag News) The CEO of the National Biodiesel Board says although there have been challenges, the biodiesel industry continues to grow by

meeting the demand for lower-carbon fuel. Donnell Rehagen says the biodiesel industry reduces greenhouse gas emissions, improves the farm economy, and gives consumers more...

January 23, 2019 [Read Full Article](#)

[Finnair Introduces CO2 Offsetting and Biofuel Service for Customers](#)

(Finnair) Finnair today (January 15, 2019) introduced a service, where its customers can offset the CO2 emissions of their flights by supporting a CO2 emission reduction project or reduce emissions by buying biofuel. Push for change service is available on Finnair web pages at www.finnair.com/pushforchange and customers can also use Finnair Plus frequent flyer points to pay...

January 21, 2019 [Read Full Article](#)

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.](#)

[Fulcrum Announces Location of Its Next US Waste-to-Fuels Plant, as Bizav Sector Showcases Sustainable Jet Fuels](#)

(GreenAir Online) Waste-to-fuel company Fulcrum BioEnergy has selected Gary, Indiana, as the location for its Centerpoint BioFuels Plant, which will have the capacity to produce three times the amount of renewable transportation fuels compared to its first Sierra plant in Nevada that is due to start operations in early 2020. Construction...
January 31, 2019 [Read Full Article](#)

[Nouryon Partners with Unilever, Investment Companies and Startup Networks to Accelerate Innovation in Chemistry](#)

by Jim Lane (Biofuels Digest) In the Netherlands, Nouryon (formerly AkzoNobel Specialty Chemicals) has officially launched the third edition of its Imagine Chemistry collaborative innovation challenge. Through this program, the company invites startups, scale-ups, university spin-outs, and other potential partners to tackle chemistry-related challenges and uncover new ways to create value...
January 31, 2019 [Read Full Article](#)

[Gadkari Launches Website to Promote Ethanol Production](#)

by Ashish Roy (Times of India) Union transport minister Nitin Gadkari recently launched a website www.indiaforethanol.net to create awareness about ethanol

production especially among farmers. At present the website provides information in Hindi but work is going on to translate the matter into 34 regional languages also. A helpline for those interested...

January 31, 2019 [Read Full Article](#)

[The Pursuit of Biofuels Evolution and Revolution: Attis Innovations' Ambitions for Its Newly-Acquired Upstate New York Project.](#)

by Jim Lane (Biofuels Digest) ... What especially caught industry attention was the teaser that "Attis will use the facility to produce low carbon cellulosic biofuels and plans to invest additional funds to enable it to meet growing demand in New York state," and let's look at that in more detail...

January 29, 2019 [Read Full Article](#)

[January 2019 PyNe43 Newsletter Available](#)

(Netzwerk Biotreibstoffe) It (January 2019 PyNe43 Newsletter) contains contributions on Electrocatalytic upgrading to stabilize pyrolysis oil Progress towards commercialization at pilot and demonstration scale Pyrolysis of forestry and fishery residue for rural applications. Overview on catalysts to upgrade pyrolysis oils. Hydrothermal liquefaction of biomass to drop in diesel Challenges under...

January 28, 2019 [Read Full Article](#)

[Burgeoning Biomethane: RNG Is a Partner, Not Competitor, to Ethanol](#)

by Matt Thompson (Ethanol Producer Magazine) Verbio has plans to further strengthen the already-expanding renewable natural gas market in the U.S., having

purchased DuPont's cellulosic ethanol plant. A transformation is underway in Iowa. Last year, Verbio North America Corp., the U.S. subsidiary of German bioenergy producer Verbio Vereinigte BioEnergie AG, purchased...

January 28, 2019 [Read Full Article](#)

[Bioindustrial Innovation Canada Publishes 2018 Year in Review](#)

(Bioindustrial Innovation Canada) With support from the Government of Canada and the Province of Ontario, Bioindustrial Innovation Canada (BIC), a not-for-profit business accelerator for sustainable chemistry, has a vision to create jobs and economic value sustainably for Canada. BIC has created a successful foundation to support an emerging hybrid chemistry cluster...

January 28, 2019 [Read Full Article](#)

[The Stora Enso Story – A Magical Tale of Trees and Forests](#)

by Helena Tavares Kennedy (Biofuels Digest) ... In today's Digest, we talk about Stora Enso's story – the renewable materials company that develops and produces wood and biomass based solutions for a range of industries and applications globally – what they have done recently that shouts innovation from the tree tops...

January 28, 2019 [Read Full Article](#)

[Ethanol Stoves Maker's App Ropes in Customers as Marketers](#)

(Business Daily Africa) Low income households using KOKO Networks' ethanol stoves can now earn commissions by marketing the cooker through a new app.

myKOKO allows users to earn up to Sh250 per sale of the special cookers that currently retail at Sh6,200. Aside from inviting friends to sign up as...

January 25, 2019 [Read Full Article](#)

[Biodiesel Production to Be Launched in Azerbaijan](#)

by Lemana Mammadova (AzerNews) The production of biodiesel will be launched in Azerbaijan, Azerbaijani Economy Minister Shahin Mustafayev said at an expanded meeting of the board of the Azerbaijani Ministry of Economy on January 22, Trend reported. The minister stressed that the corresponding enterprise has already become a resident of the Balakhani...

January 24, 2019 [Read Full Article](#)

[Sugar Has Potential to Be Energy Future of SA](#)

by Francois Baird (FairPlay/Saturday Star/IOL) ... There is so much more to sugar cane than sugar, and its potential to create a healthier energy future is but one of many good reasons the embattled South African sugar industry is worth saving. Sugar cane is one of the few bio-energy sources that...

January 23, 2019 [Read Full Article](#)

[Algae Solutions to Global Dilemmas: The Digest's 2019 Multi-Slide Guide to Global Algae Innovations](#)

by Jim Lane (Biofuels Digest) Global Algae Innovations was founded in 2013 and focuses on algae for commodities with initial technology development nearly complete. Dave Hazlebeck from Global Algae Innovations gave this illuminating overview of how the algae industry can provide a solution to the protein crisis, algae production

process, and...

January 23, 2019 [Read Full Article](#)

[Benefuel Secures Land for Sarnia Biodiesel Plant](#)

by Paul Morden (The Sarnia Observer) ... (Benefuel CEO Rob) Tripp said Benefuel has successfully commercialized its patented process for manufacturing low carbon biodiesel and bio-lubricants from waste feedstocks, such a used cooking oil and byproducts from ethanol refining. It has demonstrated the process at a biodiesel refinery in Nebraska for...

January 22, 2019 [Read Full Article](#)

[Biomass Biocrude: The Digest's 2019 Multi-Slide ABLC Guide to Ensyn](#)

by Jim Lane (Biofuels Digest) Ensyn produces a biocrude from forest and agricultural residues using its proprietary thermal technology. Dr. Robert G. Graham, Founder and Executive Chairman of Ensyn gave this illuminating overview of their growth in RFO, advancement in refinery co-processing, and start-up of a new 10 million gallon/year production facility...

January 17, 2019 [Read Full Article](#)

[Greenbelt Resources Receives PURNOL Funding and Commences Enhancements to Production Facility and Supply Chain Logistics](#)

(MarketWatch/Greenbelt Resources Corporation) PURNOL to market premium brand bioethanol for extraction solvent — Greenbelt Resources Corporation GRCO, (Greenbelt), the developer of a sustainable ECOsystem model

that transforms waste into revenue generating bioproducts including bioethanol, today announced initial funding for a licensing and exclusive distribution rights agreement from PURNOL, a California-based distribution company. In accordance...

January 16, 2019 [Read Full Article](#)

[VTT Develops New Wood Gasification Method to Produce Biofuel, Chemicals](#)

(VTT Technical Research Centre of Finland/Canadian Biomass) VTT Technical Research Centre of Finland Ltd has developed a new technique based on gasification, which offers a sustainable way to turn forest industry byproducts, such as bark, sawdust and forestry waste, into transport fuels and chemicals. The new technique reduces carbon dioxide...

January 16, 2019 [Read Full Article](#)

[EU Bioeconomy Survey: The Digest's 2019 Multi-Slide ABLC Guide to IEA Bioenergy Task 42](#)

by Jim Lane (Biofuels Digest) IEA Bioenergy 42 conducted a bio-economy survey using an online system to collect data, analysis of bioeconomy economics and policy data with interactive visualization, and a biorefineries database. Vincenzo Motola, Alessandro Giocoli, Nicola Pierro, and Isabella De Bari from IEA Bioenergy Task 42 gave this illuminating...

January 16, 2019 [Read Full Article](#)

[We'll Begin Production of Ethanol, Glucose Syrup from Sweet Sorghum Soon](#)

by Vincent A. Yusuf (Daily Trust) Nigeria will in the first quarter of 2019 begin the production of ethanol and glucose syrup from sweet sorghum for industrial use. In this interview, the Director General of Raw Materials Research Council (RMRDC), Dr. Ibrahim Hussaini Doko, explained the journey so far and the...

January 15, 2019 [Read Full Article](#)

[VERBIO North America Finds New Site for Planned Kansas Biogas Plant after Community Upset with Original Plan](#)

by Meghan Sapp (Biofuels Digest) ... The zoning change coupled with a conditional use permit would have allowed VNA to construct its first US biomethane production facility. It was anticipated that the zoning and conditional use permit would be issued by no later than October 2018. Unfortunately, a group of Sumner...

January 10, 2019 [Read Full Article](#)

[Top 10 Bioeconomy Markets and Predictions for 2019](#)

by Jim Lane (Biofuels Digest) A mere “The Year in Rewind” as we sail into 2019? Not the good ship Digest! Instead, we dust off our crystal ball and offer our predictions for the year ahead. As the sunset of 2018 gives way to the dawn of 2019, once again roll the...

January 8, 2019 [Read Full Article](#)

[The Unlikely, Eccentric Inventor Turning Inedible Plant Life into Fuel](#)

by Lesley Stahl (60 Minutes/CBS News) Marshall Medoff unveils to 60 Minutes his innovative method of turning plant life into fuel and other useful products — ... What (Craig)Masterman helped implement was Medoff's novel idea of using these large blue machines called electron accelerators to break apart nature's chokehold on the valuable...

January 7, 2019 [Read Full Article](#)

[Biodiesel's Cutting Edge](#)

by Ron Kotrba (Biodiesel Magazine) Biodiesel Magazine profiles nine companies whose process technologies, products and services are on the frontline of change in this industry. Third Coast Commodities Biodiesel feedstock trading is evolving, and Third Coast Commodities is one of the firms ushering in this change. ... The only way to...

January 4, 2019 [Read Full Article](#)

[The Perpetually Expanding Veteran Startup: Armed with a Scrappy, Do-It-Yourself Attitude, New Leaf Biofuel's Success Is a Testament to Its—and the Biodiesel Industry's—Perseverance.](#)

by Ron Kotrba (Biodiesel Magazine) ... One major difference, however, is that this vertically integrated biodiesel company has Jennifer Case at the helm. Case, co-founder, co-owner and CEO of the 5 MMgy New Leaf Biofuel, is a Pepperdine University School of Law graduate and former attorney who never gives up. She...

January 4, 2019 [Read Full Article](#)

[State of the Bioeconomy](#)

by Wayne Lee and Mark J Riedy (Lee Enterprises Consulting, Inc. and Kilpatrick Townsend & Stockton LLP/Biofuels Digest) At present, the bioeconomy continues to attract debt and equity interest. VCs, Private Equity Groups and Strategic Partners are providing equity at the technology holding company level in the form of private placements...

January 4, 2019 [Read Full Article](#)

[Aviation Solutions: The Digest's Multi-Slide Guide to Neste](#)

by Jim Lane (Biofuels Digest) Neste has a strong history of developing, commercializing, and marketing new fuels, including diesel, renewable chemicals, renewable jet fuel, and more. Neville Fernandes from Neste, gave this illuminating overview of their plans for the production and expansion of renewable jet fuel as well as plans for...

January 3, 2019 [Read Full Article](#)

[Ethanol's Impact: Iowa's Status as the Largest Ethanol-Producing State Means Its Ethanol Economy Affects the Entire Industry.](#)

by Matt Thompson (Ethanol Producer Magazine) ... A waiter in a Cedar Rapids restaurant, for instance, recently asked Shaw (Monte Shaw, executive director of the Iowa Renewable Fuels Association) about Trump's E15 waiver, upon hearing that Shaw advocates for biofuels and ethanol through the IRFA. "So here's a waiter in the...

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[Ethanol Project to Create 1,000 Jobs in Kawambwa](#)

(Zambia Daily Mail Limited) Over 1,000 jobs are expected to be created from the US\$800 million ethanol project by Sunbird Bio-Energy that has started in Kawambwa with the planting of cassava to be used as feedstock. The project, situated on the Luena farm block, was commissioned by President Edgar Lungu in...

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[Meeting Paris Agreement Targets Would Create 24 Million Jobs Globally](#)

by Marlene Cimon (Nexus Media) ... By working to achieve the stated goal of the Paris Agreement, to limit warming to 2 degrees C, most countries will see a net gain in employment. "Our findings show that if we take action to limit climate change, we will have more jobs by...

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[CALL FOR PAPERS: IBBK Progress in Biomethane-Mobility — October 15-17, 2019 — Neubausaal Schwäbisch Hall, Germany DEADLINE: March 1, 2019](#)

Introducing the next logical step towards renewable mobility for internal combustion engines: biomethane. Thanks to modern, state of the art upgrading processes,

numerous biogas plants feed their biogas directly into the natural gas grid after removing impurities and upgrading it to natural gas quality already today. In some cases...

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[CALL FOR PRESENTATIONS: 3rd Annual Sustainable Fleet Technology Conference — August 7-8, 2019 — Durham, NC DEADLINE: Unclear](#)

Discover the latest and greatest in sustainable fleet technology, operations, and implementation. The Sustainable Fleet Technology Conference will showcase the latest and greatest technologies in the biofuels, electric, natural gas, and propane arenas. The conference will also have a strong focus on data driven decisions and technologies. The NC Clean Energy...

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[CALL FOR PAPERS: 7th Conference on Carbon Dioxide as Feedstock for Fuels, Chemistry and Polymers — March 20-21, 2019 — Maternushaus, Cologne, Germany DEADLINE: unclear](#)

Topics: Carbon Capture, Hydrogen, Fuels for cars and aviation, Chemicals and Polymers as well as Mineralisation and Proteins Meet the leading international experts at one of the leading events on Carbon Capture and Utilization (CCU) in the world ++ More than 200 leading international experts in CO2 utilization and 20 exhibitors...

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[CALL FOR ABSTRACTS: Sardinia Symposium 2019 — September 30-October 4, 2019 — Cagliari, Italy](#)
[DEADLINE: February 15, 2019](#)

After celebrating our 30-year anniversary in 2017, the next edition of the Sardinia Symposium to be held in 2019 is looking better than ever with a success that goes from strength to strength, making the Sardinia Symposia the most important solid waste management conference in the world. The secret of...

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[CALL FOR PAPERS: Global Summit on Waste to Energy \(GSWE-2019\) — February 28 – March 1, 2019 — New Delhi, India](#)
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The Global Summit on Waste to Energy (GSWE-2019) brings together its best ever faculty of international Waste to Energy CEOs, developers, bankers, private equity financiers, technology providers and industrial end users for two days of intensive networking. With a firm focus on advanced conversion technologies, the summit addresses the need...

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[CALL FOR PAPERS: Biomass Trade Europe Summit — February 20-21. 2019 — Rotterdam, The Netherlands](#)
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ACI' is pleased to announce the 4th edition of a successful series of events, now with a more specific focus & name, Biomass Trade Europe Summit. The event will bring together senior executives and experts from the biomass trading industry, biomass producers, energy companies, policy makers, consultants, technology innovators

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[CALL FOR PAPERS: 2nd Global Summit on Chemistry and Chemical Engineering — February 18-19, 2019 — Frankfurt, Germany DEADLINE: unclear](#)

Aim: To promote quality research and real-world impact in an atmosphere of true international co-operation between scientists, engineers and industry by bringing together the world class researchers, International Communities and Industrial heads to discuss the latest developments and innovations in research field. The Scientific Federation is an expert-driven non-profit international...

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Grants

For more information about open grants and about research and investment funded by grants, click [here](#).

[ARPA-E Projects to Develop Sensors for Bioenergy, Agriculture](#)

by Erin Voegele (Ethanol Producer Magazine) The U.S. Department of Energy's Advanced Research Projects Agency-Energy recently awarded nearly \$6 million to four projects under its OPEN+ program for the Sensors for Bioenergy and Agriculture cohort team. According to ARPA-E, the team will develop ultra-low energy distributed sensors to improve production efficiency...

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[Update on CAAFI State-Level Projects](#)

(Commercial Aviation Alternative Fuels Initiative) SAJF Deployment Projects Florida, Alabama, Georgia Several developments in Alabama and Florida will enhance opportunities for the Southeast Partnership for Advance Renewables from Carinata (SPARC), a USDA Coordinated Agricultural Project (CAP). The Alabama Department of Economic Development and Community Affairs (ADECA) has issued an RFP...
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[Reaping the Benefits of Agricultural Waste](#)

(University of New Castle) Australia's \$63 billion* agriculture sector stands to benefit from a revolutionary fuel technology that will convert multiple agricultural waste streams into valuable biofuel and green chemical products for the first time. In partnership with the University of Newcastle, Newcastle Institute for Energy and Resources (NIER) and...
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[ARPA-E Announces \\$11 Million for Fourth, Fifth OPEN+ Cohorts](#)

Helena Tavares Kennedy (Biofuels Digest) In Washington, D.C., the U.S. Department of Energy's Advanced Research Projects Agency-Energy (ARPA-E) announced \$11 million in funding for 7 projects in the next two cohorts of the agency's OPEN+ program: Energy-Water Technologies and Sensors for Bioenergy and Agriculture. Energy-Water cohort teams will develop new, energy-efficient processing technologies...
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[California Awards \\$90m Grant Funding to Dairy Tech CalBio in Mission to Reduce State's Livestock Emissions](#)

by Lauren Manning (Ag Funder News) CalBio, a company developing dairy digesters that generate renewable electricity and vehicle fuel in California, has been awarded \$90 million in funding for three Dairy Pilot Projects from the California Public Utilities Commission (CPUC), the California Air Resources Board (CARB), and the California Department of Food and...

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[Pakistan: Green Climate Fund Will help Karachi Deploy 200 Biogas Buses](#)

(NGV Journal) With funding from the international Green Climate Fund, the Pakistani port city of Karachi will launch a zero-emission Green Bus Rapid Transit (BRT) network, with 200 buses fueled by biomethane. The new bus system – due to start operating in 2020 – will help reduce air pollution and street...

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[Reaping the Benefits of Agricultural Waste](#)

(University of New Castle) Australia's \$63 billion* agriculture sector stands to benefit from a revolutionary fuel technology that will convert multiple agricultural waste streams into valuable biofuel and green chemical products for the first time. In partnership with the University of Newcastle, Newcastle Institute for Energy and Resources (NIER) and...

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[Attis, Iowa State Partner on Lignin-Based Carbon Fiber](#)

(Attis Industries Inc./Ethanol Producer Magazine) Attis Industries Inc., a diversified innovation and technology holding company, today announced a partnership with Iowa State University for a funded research program to develop carbon fibers for use in a wide variety of applications derived entirely or predominately from lignin produced at Attis' planned biorefineries. Carbon fibers...

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[USask Research Turning Ethanol Waste into Alzheimer's Meds, Industrial Products](#)

(University of Saskatchewan) A University of Saskatchewan (USask) research team's quest to extract protein from more than a billion litres of annually produced wastewater (called thin stillage) at Saskatchewan's ethanol plants has yielded something far more valuable—a compound used in many countries to slow cognition loss in Alzheimer's patients. That compound...

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[Chlorella's Wastewater Cleaning Ability Confirmed](#)

(Algae Industry Magazine) Environmental engineers at the University of Arkansas have discovered that *Chlorella vulgaris*, a single-celled fresh water algae species, effectively removes pollutants from wastewater even at fluctuating levels, making it an effective tool for wastewater treatment. The study, published recently in *Water Environment Research*, indicates that *Chlorella vulgaris* continues to remove harmful elements...

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[New 'Architecture' Discovered in Corn: Scientists' Findings May Improve Biofuel Production](#)

(Louisiana State University/Science Daily) New research on the United States' most economically important agricultural plant — corn — has revealed a different internal structure of the plant than previously thought, which can help optimize how corn is converted into ethanol. — It has been previously thought that cellulose, a thick and rigid...

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[Pushing Microbes to Deliver Preferred Products](#)

by Tom Ziemer (University of Wisconsin-Madison/Phys.Org) If environmental engineer Daniel Noguera had his way, he would orchestrate a microbiome to pump out higher-value chemical products. In that vein, Noguera, the Wisconsin Distinguished Professor of civil and environmental engineering at the University of Wisconsin-Madison, along with graduate student Matt Scarborough and collaborators in the...

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[Study Argues Sustainable Palm Oil Should Be Easily Accessible](#)

(Biofuels International) A new research study from the University of Cambridge is arguing that sustainable choices on palm oil should be made easier to understand and more accessible to consumers. The study is to be published in Environmental Research Letters. The study outlines how consumer goods companies and retailers need to be...

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[Farmland Expansion Increases Carbon Footprint across Northern Corn Belt](#)

(Illinois Farmer Today) Faster conversion of land into agricultural production in recent years has raised the region's carbon cost of producing grains, according to recently published research from an Iowa State University scientist. The study, published in the academic journal Environmental Research Letters, shows that increases in crop production due...

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[They Develop Biosensors to Optimize Biodiesel Production](#)

(Uniradio Informa/Notimex (Google Translation)) They develop biosensors to optimize biodiesel production — The Institute of Engineering of the Autonomous University of Baja California (UABC) developed biosensors in this border city, with the aim of optimizing the biodiesel production process. The UABC researcher, Margarita Stoytcheva Zlateva, reported that the project "Development of nanostructured...

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[UC Riverside Team Examines Influence of Mid-and High-Level Ethanol Blends on Pollution from GDI Flex Fuel Vehicle](#)

(Green Car Congress) A team from the University of California Riverside has investigated the influence of low-, mid-, and high-ethanol fueling—as well as the influence of the aromatic hydrocarbons in the fuel blend—on the regulated and greenhouse gas emissions, the mobile source air toxic pollutants, and the particulate emissions from a...

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[Corn Ethanol Production Has Minimal Effect on Cropland Use, Study Shows](#)

by Madhu Khanna (Farms.com) Ethanol production has increased sharply in the United States in the past 10 years, leading to concerns about the expansion of demand for corn resulting in conversion of non-cropland to crop production and the environmental effects of this. However, a new study co-authored by a University of...

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[New Study Touts Agricultural, Environmental Benefits of Biochar](#)

(North Dakota State University/Phys.Org) The many benefits of a biomass-made material called biochar are highlighted in a new publication in which Ghasideh Pourhashem, assistant professor at NDSU's Department of Coatings and Polymeric Materials and Center for Sustainable Materials Science, is the lead author. The 24-page article, "Policy Support for Biochar: Review..."

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[Environmental Benefits of Energy Crops: The Digest's 2018 Multi-Slide ABLC Guide to University of Illinois Research](#)

by Jim Lane (Biofuels Digest) The University of Illinois, Urbana-Champaign has been researching the economic incentives and policy implications of energy crops such as miscanthus and switchgrass. Madhu Khanna, from University of Illinois, Urbana-Champaign, gave this illuminating overview of the environmental benefits of energy crops at ABLC Global 2018 in San Francisco – and...

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[Grants Fund Research on Biofuel Production, Reduced Fertilizer Use](#)

(University of Arkansas News) A University of Arkansas biologist working on research that could decrease the need for agricultural fertilizers and boost the production of biofuels recently received grants totaling more than \$1 million from the National Science Foundation and the U.S. Department of Energy. Daniel Lessner, associate professor in the...

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[DOE Awards \\$1M to UMass Lowell-Led Team to Develop Renewable Fuel Additives from Wood Byproducts; Co-Optima Project](#)

(Green Car Congress) The US Department of Energy (DOE) has awarded a three-year, \$1 million grant to a team of researchers led by a UMass Lowell mechanical engineering professor that is working to develop renewable fuel additives from

sawdust and other wood byproducts. The project is part of the Department of Energy's Co-Optima...

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[Direct Electrolysis Has Mixed Results for Extracting Fuel Sources from Microalgae](#)

(Universiti Malaysia Sabah/Phys.Org) Researchers are investigating ways to improve biodiesel production by using electrical fields to break open microalgae cells with varied results, according to a new study in the Pertanika Journal of Science & Technology. Lipids inside microalgae are a promising source of biofuel. Microalgae cells must first be broken apart...

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