

## Coming Advanced Biofuels Events Click on event for

more information. Scroll below news articles for details and special deals for Advanced Biofuels USA readers.

- February
- Renewable Energy World Conference & Expo North America February 14-16, 2012 Long Beach, CA
- National Ethanol Conference February 22-24, 2012 Orlando, FL
- Cassava Starch World 2012 February 22-24 Phnom Penh, Cambodia
- 3rd Biomass Trade & Power February 23-24, 2012 Brussels, Belgium
- 51st Annual Western Farm Show February 24-26, 2012 Kansas City, MO
- Third Annual ARPA-E Energy Innovation Summit February 27-29, 2012 National Harbor, MD
- 2012 ABO Legislative Fly-in February 29-March 1 Washington, DC
- March
- Bioenergy Processes & Technologies March 13, 2012 Rotterdam, Netherlands
- World Biofuels Markets March 13-15, 2012 Rotterdam, The Netherlands
- Bio-Based Chemicals Summit March 13-14, 2012 Rotterdam, Netherlands
- Unconventional Feedstocks & Fuel Mandates: Operating Amid Change March 14, 2012 San Diego, CA
- University of Vermont Biomass to Biofuels Course March 23 to April 28, 2012 Burlington, VT
- Bringing Bioproducts to Market: Overcoming Risks to Commercialization March 26-28, 2012 Sarnia,
   Ontario
- 'Biofuels Beltway March' March 27-28, 2012 Washington, DC
- 2012 BioPlastek Forum March 28-30 Arlington, VA
- April
- EcoTrek Foundation's "Protect and Preserve America Tour" April-November 2012 US
- Advanced Biofuels Leadership Conference April 2-5, 2012 Washington, DC
- The Commercial Impacts of Biofuel Sustainability April 4, 2012 London, UK

- 2nd Algae World Australia April 16-17, 2012 Perth, Australia
- International Biomass Conference & Expo April 16-19, 2012 Denver, CO
- European Algae Biomass April 25-26, 2012 London, UK
- 2nd World Congress of Bioenergy-2012 April 25-28 Xi'an, China
- World Congress on Industrial Biotechnology and Bioprocessing April 29-May 2, 2012 Orlando, FL
- May
- 2012 ACT Expo May 15-17 Long Beach, CA
- Council for Chemical Research 33rd Annual Meeting May 20-22, 2012 Dearborn, MI
- 4th Algae World Europe May 22-23, 2012 Munich, Germany
- June
- International Fuel Ethanol Workshop & Expo June 4-7, 2012 Minneapolis, MN
- 2nd International Conference on Algal Biomass, Biofuels and Bioproducts June 10-13, 2012 San Diego, CA
- ACI's European Biodiesel Summit June 13-14, 2012 Krakow, Poland
- Young Algaeneers Symposium June 14-16, 2012 Wageningen, The Netherlands
- 16th Annual Green Chemistry & Engineering Conference June 18-20, 2012 Washington, DC
- Next Generation Engine and Fuels Forum June 18-20, 2012, Washington, DC
- EU BC&E 2012, 20th European Biomass Conference and Exhibition June 18 22, 2012 Milano, Italy.
- BIO International Convention June 18-21, 2012 Boston, MA
- ATW's 5th Annual Eco-Aviation Conference & Awards Ceremony June 20-21, 2012 Crystal City, VA
- Global Pongamia World 2012 June 25-26 Jaipur, India
- July
- PALMEX Riau 2012 July 5-7 Pekanbaru, Indonesia
- Biomass 2012 July 10-11, 2012 Washington, DC
- 2012 Biochar Conference July 29-August 1 Rohnert Park, CA
- September
- Algae Biomass Summit September 24-27, 2012 Denver, CO
- World Clean Technology Summit September 26-28, 2012 Kampala, Uganda
- October
- The Sun Grant Initiative National Conference on Science for Biomass Feedstock Production and <u>Utilization October 2-5, 2012 New Orleans, LA</u>
- RETECH October 17-19, 2012 Washington, DC
- 2012 TAPPI International Bioenergy & Bioproducts Conference October 17-19 Savannah, GA
- 4th Annual World Refining Technology Summit 2012 October 22-23 Brussels, Belgium
- Nordic Wood Biorefinery Conference October 23-25, 2012 Helsinki, Finland

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• 2013

#### January

• AgConnect Expo January 29-31, 2013 Kansas City, MO

Get more information on our home page: <a href="www.AdvancedBiofuelsUSA.org">www.AdvancedBiofuelsUSA.org</a> and in our <a href="Coming Events">Coming Events</a> lists.

See also <u>CALL FOR PAPERS</u>, a list of invitations to submit abstracts for presentations and posters.

# Happenings on Capitol Hill, at the White House and in Federal Agencies

#### Pending Legislation

**2013 BUDGET**: See Bob Kozak's quick overview and <u>analysis of</u> the impact of the proposed 2013 federal budget on biofuels and biomass programs.

**FARM BILL**: Recognizing the fiscal restraints on the federal and state levels, along with the urgent need to transition to bio-based transportation fuels, Advanced Biofuels USA proposes low cost and cost-efficient policies that should be included in the **Farm Bill** which may be under consideration through 2012.

"As a respected independent nonprofit educational organization, Advanced Biofuels USA presents these as providing the "biggest

bang" for the government buck," explains executive director, **Joanne Ivancic**. "We have identified two specific problem areas. First, the challenges of bringing small, non-contiguous marginal acreage to productivity via an energy crop market; and, second, funding promising conversion and production

technologies wallowing in the financing valley of death."

"Our recent experience is in the Appalachian corridor," she comments, "But what we learn here will have technology transfer applications throughout the US and the world." The proposals are:

Retain Agricultural Land: Agricultural and forest lands are vulnerable to loss due to reduction of the dairy and pulp/paper industries, and conversion to residential or commercial development. They could retain their agriculture/forest value if retained as biomass/biofuel production areas. Land retention programs should include:

- Demonstration programs to convert former pasture land to either multi-crop perennial grasses, other energy crops, or mixed hardwood forests for biomass/biofuel use.
- Development of portable biomass to biofuel precursors (sugars or oils) production systems that could make small, non-contiguous stands of biofuel grasses, oil seed crops or trees profitable.



Establish a National Biomass/Biofuel Policy: Using the "Billion-Ton" study as a starting point, a long term national policy should be established to assure that an economically and environmentally sustainable supply of biomass will exist throughout the coming decades. Elements of the policy should include:

- Multiple approaches that fit within regional ecological and environmental patterns
- Flexibility in harvesting patterns
- Ability to supply multiple biofuel and bioproducts conversion systems.
- Adaptations to changing climate conditions

Fund the Development of Biofuel Production Systems at the "Death Valley" Stage: The best use of the limited R&D funds that will be available in the coming years would be to drive the development of lab-scale breakthroughs past the first stage commercialization phase which is often referred to as the "valley of death." Such a research to commercialization program would include the following:

- Project size should be limited to \$5-7 million with a minimum of 30 project awards per year.
- Maximum cost sharing should be 15%.
- Projects should be focused on producing transportable precursors from a variety of non-food sources
  - that could be used by a variety of biofuel and bioproducts production systems.
  - Projects should be focused on decentralized or portable systems that would expand the availability of biomass crops to small and non-contiguous plots.
  - Projects should be focused on optimizing biorefineries to accept these precursors and intermediaries.



Provide a Grower-Oriented, Easily Accessed, Bio-Crop
Database: USDA and DOE have acquired a significant trove of
information on all aspects of biofuel production. In addition to
current websites that access some of this information, a grower
oriented website should be established. Features should include:

- Crop types and projected yields, nutrient inputs and related information based on grower supplied entries of location, size of plot, and soil type. (Precipitation would be provided from USDA/NOAA information in the database.)
- Available biomass conversion and/or biofuel production systems.
- Location of biofuel bioenergy production facilities and estimated transportation costs.

**Reform Land Conservation Programs:** Current land conservation reserve programs should be reformed to include environmentally sound biomass production options. These should include:

- Perennial Grass croppings that do not interfere with animal nesting patterns or other environmental conditions.
- Selective tree harvesting that does not interfere with animal nesting patterns or other environmental conditions
- Current government payments would be replaced by a combination of income derived from the sale of biomass and tax credits. For example, if the value of biomass payments falls below established CRP payments, the difference would be made up with tax credits. CRP land owners would keep any excess over the established CRP payment. READ MORE

**Do your part**. Talk and write to your Senators and Representatives in Congress. Bring this up with those running for President. Take Congressional staff on tours of your facilities, class rooms, research labs. Show them that this is real, of benefit to the US and the world, and a partial answer to many of the vexing problems they grapple with daily from sustainable energy to job creation.

• See more articles on the latest proposed legislation and federal activites: <u>Federal Agency</u> and <u>Federal Legislation</u>.

**Current Projects: Highlights** 



#### SAVE THAT DATE! Tomorrow's Engines and

Tomorrow's Fuels. Watch for news on the coming Infocast conference Next Generation Engines and Fuels Forum to be held June 18-20 in Washington, DC. Advanced Biofuels USA has long advocated for getting engine designers and fuel designers together to optimize the potential of both.

In addition to an action-oriented two-day forum, the event includes a pre-conference workshop day for those of us who don't know





what turbo charging, RVP, octane, compression ratios, displacement and such have to do with how fuels impact the performance and design of engines--and the mpg and emissions regulations attendant thereto.

alt="Kozak Teaching"

v:shapes="\_x0000\_s1031"> Representatives all along the biofuels value chain from "seed to wheel" are invited. From growers, ag researchers, conversion technology researchers to investors, producers, regulators, engine and automotive designers, fuel distributors and retailers, and legislators. All are needed to help panels of experts explore the nitty-gritty of transitioning "the whole gallon" to renewable fuels as efficiently, economically, environmentally and socially sustainably as possible. It's a tall order.

This will be a good place to collaborate to achieve the new CAFE and Tier 3 standards, to work toward a truly renewable sustainable ground transportation fuels future. For more information about sponsoring or speaking at this conference, contact Alice Barsoomian at aliceb @ infocastevents.com.

#### **Resource for Journalists**

Advanced Biofuels USA strives to provide a well-rounded source of information for a variety of audiences from legislators and their staffs at local, state and federal levels to journalists and reporters to students, teachers and the general public, as well as to industry professionals in all aspects of the value chain. We often provide one-on-one consultation with a variety of individuals; and do occasional interviews with reporters for the record and on background. We often refer reporters and others to a variety of resources in addition to those on our web site. Don't hesitate to call or write.

### **Education**



# v:shapes="\_x0000\_s1032">The Nuffield Council on Bioethics Teaching Materials

The Nuffield Council on Bioethics has published a set of teaching resources based on its report Biofuels: ethical issues. The resources introduce students to the advantages and disadvantages of different types of biofuels, and

include case studies and a role play exercise to explore the drivers of the biofuels industry and the impact that biofuels can have on people's lives.

The resources are split into two lessons. In the first lesson, students will begin by learning about the different types of biofuels that are being produced as alternative renewable sources of energy. They will explore the advantages and disadvantages of these different types of biofuels, and begin to make comparisons.

The second lesson includes a role-play exercise to aid further exploration of the impacts of biofuels production in countries such as Brazil, Malaysia and the USA.

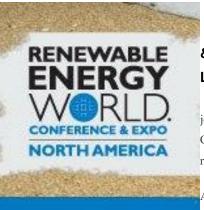
The resources have been created and trialled as a cross-curricular exercise for whole classes or larger student groups at Key Stage 3 and above. The resources were developed and trialled by Michelle Albury, Jennet Wade and Rebecca Ward, teachers at Graveney School in South London.

The resources are available to download either in PDF format or as editable Word files READ MORE on our "For Teachers" page.

As Always: Keep an eye on our web site category "Education" and its subcategories such as "Education: For Teachers," as well as the Biofuels Basics section with it's page of Slides and Presentations for Public Use. We'll share information about educational materials and projects as we hear about them. If you have developed teaching materials or projects about biofuels and advanced biofuels that you are willing to share, please contact us at info@advancedbiofuelsusa.org."

**Upcoming Advanced Biofuels Conferences and** 

### **Activities: Some Details**



Renewable Energy World Conference
 Expo North America February 14-16, 2011
 Long Beach, CA

join us for the ninth annual Renewable Energy World

Conference & Expo North America – North America's leading
renewable event.

Attend?

Please

all

Why

- Stay up-to-date with the latest technological advancements in all the renewable energy sectors through attending this ONE event
- Network with colleagues and business prospects during the co-located networking events
- Share best practices in the interactive conference sessions
- Receive in-depth training in a Competitive Power College (CPC) Pre-Conference Workshop
- Gain Professional Development Hours

#### Who Attends?

- · Power Generating Utilities, Independent Power Producers, Municipal Utilities and Cooperatives
- Local, State and Federal Government
- Energy Advisory and Planning Agencies
- Research and Training Institutions
- Large Energy Users



- Renewable Energy Site Owners and Managers
- Manufacturers of Renewable Energy Systems
- Consultants in Renewable Energy
- Renewable Energy Architects, Engineers and Construction

Representatives READ MORE

Casava Starch World, February 22-23, 2012 Phnom

#### Penh, Cambodia

Centered around the theme on Finding Value Added Applications for Cassava, CMT'sCassava Starch World conference is a must attend event for the entire supply chain of the industry. Find out key issues on:

- Cassava Starch outlook markets, economics and its competitiveness with other feedstocks in the starch game
- Downstream processing of Cassava into ethanol, sweeteners, fermentation products. Find out how industry players use sugar & tapioca starch interchangably
- Wastewater treatment and implementation of anaerobic process on cassava manufacturing facility. How to reduce global warming and yet gain emissions credit when you invest in methane gas collection and capture for energy
- Biotechnology approaches to cassava protein improvement. What are the recent developments in improving the nutritional value of cassava?
- What are the new cassava varieties that can increase its competitiveness?
- Can cassava starch be adapted for all purposes and how do companies test for variation in starch quality?

Update on Cassava projects and markets outlook – Country focus on Thailand, Cambodia, Vietnam, Colombia, Brazil READ MORE



# World Biofuels Markets Congress & Exhibition March 13-15, 2012 Rotterdam, Netherlands

The **World Biofuels Markets Congress & Exhibition** returns to Rotterdam for 2012, to once again bring together the entire value chain of the biofuels industry to do business..

EUROPE'S LARGEST BIOFUELS CONGRESS & EXHIBITION:

- 1500+ attendees from 80 countries
- 70% of attendees at Director+ level
- 2 months of travelling condensed into 3 days of networking and meetings
- 275 expert speakers in 25 focused sessions with 2 co-located conferences
- 70 exhibitors so you can meet the market leaders and learn more
- 25 hours of networking time in the co-located exhibition area READ MORE

2nd Algae World Australia April 16-17, 2012 Perth, Australia



Scaling up to the next level & developments inprocessing technology from harvesting, separation to extraction

Key Highlights

- Assessment of the possible scale of algae cultivation & biocrude potential across Australia
- Open Pond systems with high saline algae Muradel project update
  - Genetic Modification of Algae for biofuel production
  - Macroalgae (Seaweed ) to energy
- Downstream processing and applications in high value added products
- Optional Site Visit on the 17th April (2 pm 5 pm)

Algae R&D Center in Murdoch University including the SABC (State Agricultural Biotechnology Center ) where they do a lot of molecular and proteonomic work and the Separation Science and Metabolomics laboratory which has extensive analytical capabilities including analysis of the algae and of the biofuels READ MORE



# European Algae Biomass April 25-26, 2012 London, UK

Maximising Algae's Business Potential Today, for the Markets of Tomorrow

Join us once again at ACI's European Algae Biomass held in London, UK, on 25-25 April 2012. The 2nd edition is building on the success of the 2011 event and will provide you with the opportunity to examine key areas affecting success in the industry.

Hear from leading industry executives and experts, including: algae producers, green energy and biotech investors, biodiesel manufacturers, cultivation, harvesting and oil extraction process technology providers, government representatives and other industry professionals.

Conference is chaired by Professor Mario Tredici, President of the European Algae Biomass Association and includes speakers from BDI – BioEnergy International, UniVerve Biofuel, Ecoduna, OriginOil and many more – please follow the link below for detailed information. <u>READ MORE</u>

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The World Congress on Industrial Biotechnology
 Bioprocessing April 29 - May 2, 2012 Orlando,
 FL

The World Congress on Industrial Biotechnology and Bioprocessing is the world's largest industrial biotechnology event for business leaders, investors and policy makers in biofuels, biobased products, and renewable chemicals. Entering its ninth year, the event is expected to bring together more than 1,000 high-profile scientists, executives,

government officials and investors for an exchange of ideas in Orlando.

The event offers unique networking opportunities, an overview of the latest technological developments, and real world scenarios for bringing technological solutions to market. The Congress features discussions of high profile topics related to climate change, sustainability, new sources of fuel, financing, and policy. The conference also offers business partnering opportunities, utilizing a computer system that assists companies and investors alike in arranging confidential one-on-one meetings with other attendees.

A Poster Session and Exhibit Hall will provide attendees with an unparalleled opportunity to converse with their colleagues and learn about the latest developments in the field of industrial biotechnology and bioprocessing. We are excited to bring this conference to Toronto to highlight the industry's growth, the importance of this industrial and environmental biotechnology for generating green jobs, making greener products and cleaner processes all aimed at building a biobased economy. READ MORE



4th Algae World Europe May 22-23, 2012 Munich,
Germany CMT's Algae World conference series is recognized as
a premier platform for productive exchanges amongst the
Academic, Commercial and Investment communities.
Algae World addresses the intricacy of scaling-up algae production
and processing; focuses on innovative technologies and market
dynamics that can bring the algae sector to the next level.

You Will Network with:

- Algae Technology Developers
- Cleantech Entrepreneurs
- Research Institutes
- Aquaculturists

- Financiers and Investors
- Heavy Industries including Mining Companies, Power Plant Operators, Cement Plant Operators
- Biofuels Network, Animal Feed Companies, Nutraceuticals/ Pharmaceutical Cos, Fertilizer suppliers, Aircraft/Engine Manufacturers
- Technology suppliers for Downstream processing

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### ACI's European Biodiesel Summit June 13-14, 2012 Krakow, Poland

The leading annual event specifically for the European biodiesel industry, ACI's European Biodiesel Summit will be taking place on 13-14 June 2012 in Kraków, Poland. The previous events held in Brussels, Prague, Barcelona and Rotterdam have attracted senior executives from all areas of the biodiesel industry including agribusiness, feedstock

traders and suppliers, transportation companies, biodiesel producers, oil refiners, NGOs, financiers, automotive companies, technology providers and plant manufacturers among others.

Gain direct access to the senior level audience through enhanced visibility and exposure to attract new business. A wide range of opportunities are available, all of which can be finely tuned to match your exact requirements.

LOTOS Biopaliwa's Czechowice-Dziedzice Biodiesel Plant Afternoon of Tuesday 12th June Limited to 30 conference attendees. READ MORE



# EU BC&E 2012 20th European Biomass Conference June 18-22 Milano, Italy

You are invited to join the EU BC&E 2012, 20th European Biomass Conference and Exhibition, 18 – 22 June 2012 at the Milano Convention Centre in Milano, Italy.

With this event, we will continue the biomass specialist's role as the leading technical platform covering all aspects of biomass from research to industry and markets.

We also continue the industrial exhibition that brings biomass scientist and engineers together with the biomass industry. READ MORE



#### PALMEX RIAU 2012 July 5-7 Pekanbaru, Indonesia

PALM OIL RIAU EXPO 2012 will be held on 5 – 7 July 2012 at Labersa Grand Hotel and Convention Center, Pekanbaru, Riau, Indonesia.

The 2nd Edition of PALMEX RIAU 2012is the only specialized Palm Oil event in Riau that brings together an international congregation of both upstream and downstream palm oil companies and also its supporting industries gathered in the capital city of Pekanbaru, Riau to showcase the latest technologies and

developments in the palm oil industry.

Brought to you by Fireworks Exhibitions & Conferences, organizer of the world's largest Palm oil technology event "PALMEX Indonesia" and also the highly successful palm oil technology events in the region, "PALMEX Malaysia" and "PALMEX Thailand"

For further information, please visit our website <a href="www.palmoilriau.com">www.palmoilriau.com</a> or send any email to info@asiafireworks.com READ MORE



# World Clean Technology Summit September 26-28, 2012 Kampala, Uganda

 Every year, Pilot International continues to provide a Global
 Platform for Advancement of Innovations and Clean Technology for a Sustainable World.

The growth and success of our events is testament to Pilot Internationals' determination to provide a global platform for effective dialogue on renewable energy, clean technology and

environmental innovations, as well as to achieve 3 of the millennium development goals, such as:

MDG3: Promoting Gender Equality& Women Empowerment,

MDG7: Ensuring Environmental Sustainability,

and MDG8: Developing A Global Partnership For Development.

The World Clean Technology Summit will bring together world leaders in renewable energy, exhibitors, investors, scientists and clean technology providers from around the world to engage, interact with each other, exchange business contacts, forge partnerships, and pave a way forward for a sustainable future.

The Following are objectives for the World Clean Technology Summit:

- Create a shared understanding of the role governments, private sector, non-Profit, academic
  and the media play in promoting clean technologies to achieve a sustainable future for all;
- Provide a platform for companies, investors, Governments, foundations, academicians and civil
  society organizations to share the efforts they are undertaking to promote clean technologies
  and to publicize new commitments to action. READ MORE

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### RETECH 2012 October 17-19 Washington, DC

CONNECT with the World's Renewable Energy Leaders from Government, Utility, Finance

and Technology

RETECH 2012 is the only event dedicated to delivering coverage on EVERY discipline of renewable energy technology. RETECH is THE renewable energy industry's meeting place for over 3,000 Government, Utility, Finance and Technology professionals from 60 countries.

RETECH's conference sessions deliver unparalleled educational content including business development opportunities, topical professional development, current trends, the newest technologies and important up-to-date information on the changing legislative and regulatory landscapes. Our exhibition offers the best opportunity to meet, network and connect with companies and organizations in the renewable energy industry. READ MORE



Nordic Wood Biorefinery Conference October 23-25, 2012 Helsinki, Finland

The international event, Nordic Wood Biorefinery Conference (NWBC), is the leading meeting forum for wood biorefinery professionals. The next event will be held in Helsinki in October, 2012. This conference is jointly organised by VTT and Innventia. The conference language will be English.

The organisers wish to invite all persons interested in wood-based biorefining to the NWBC 2012!

The conference programme will consist of keynote lectures, invited and submitted papers, as well as poster presentations. In line with the previous NWBC conferences, the presentations will give a comprehensive overview of the recent progress in wood biorefining research and commercialisation.

The programme will cover the following main topics:

- Industrial wood biorefining projects, including pulp mill modifications
- Emerging new wood biorefineries and biorefinery products
- Key research programmes and projects

- Socio-economic aspects of wood biorefining
- Policy issues relevant to biorefining
- Market aspects READ MORE

### You Can Help, too!



Currently, the people putting this together for you are all volunteers. We live all over the US and come from various corners of the world. Please join us in whatever way YOU can. See the Volunteer Job Openings pages on our web site or just give us a call (301-644-1395) or send an email: <a href="mailto:info@AdvancedBiofuelsUSA.org">info@AdvancedBiofuelsUSA.org</a>. We can put together a way for your talents to help us achieve our mutual goals.

We also need funds! Trying to figure out the perfect "green" gift? Give "green" to us in honor or memory of others who care about preserving this Earth by donating to Advanced Biofuels USA for year-round "green" action. DONATE now! We'll send a special card acknowledging your gift.

You are welcome to host a fundraiser for us, too. Have a house party to educate family and friends about advanced biofuels and take up a collection for us. Even \$100 helps pay for ink for office printers. Let us know!

If you have any questions or suggestions—or want to contribute to our success in any way, don't hesitate to call 301-644-1395 or write to jivancic@advancedbiofuelsUSA.org

You have received this newsletter because you indicated to us an interest in Advanced Biofuels USA. We hope you find it useful. If you want to stop receiving these occasional newsletters, just follow the instructions below.

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