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Newsletter for February 08, 2006

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Announcements

Science Magazine Articles Review Biofuel Technologies

Science

Magazine's 27 Jan 2006 issue includes two articles about the state of biofuel technology. The report entitled [Ethanol Can Contribute to Energy and Environmental Goals](#) by Farrell, *et al.*, evaluates six representative analyses of ethanol as a biofuel. Acknowledging the difficulty in comparing the results of the six studies, the authors call for the development of more intuitive and meaningful performance metrics as a replacement for net energy ratios. All six studies reviewed had concluded that current corn ethanol technologies are much less petroleum intensive but still emit significant levels of greenhouse gases themselves. The authors surmise that large-scale use of ethanol will almost certainly require cellulosic technology. In a technology review in the same issue, Ragauskas *et al.* summarize recent advances in genetics, biotechnology, process chemistry and engineering that are leading the way towards the conversion of renewable biomass into valuable fuels, a process referred to as biorefinery. In their review, [The Path Forward for Biofuels and Biomaterials](#), the authors discuss the potentials of agroenergy crops and supporting technologies that may lead to new fuel manufacturing paradigms.

New Grant and Project Opportunities

[Browse Complete RFP Listings >>](#)

New

[American Museum of Natural History: Grad & Post-Doc Grants](#) (Feb 15, Mar 15, May 1)

[Canon National Parks Science Scholars Program for the Americas](#) (May 3)

No Deadline

[EPA Community-Based: Environmental Justice Small & Collaborative Grants](#)

[National Geographic Society \(NGS\): Conservation Trust Grants](#)

Deadlines in February

[NSF Ecology of Infectious Diseases](#) (Feb 10)

[Sea Grant/NOAA Fisheries: Pop Dynamics & Marine Resource Econ](#) (Feb 10)

[USGS / NIWR Water Research Grants](#) (Feb 10, Feb 24)

[CDC / NIOSH: Ag Disease & Injury Research, Education, & Prevention](#) (Feb 15)

[EPA / Health Effects Institute: Health Effects of Air Pollution](#) (Feb 15)

[Marine Biological Laboratory: Summer Research Fellows](#) (Feb 15)

[Mount Desert Island Biological Lab \(MDIBL\) Research Awards](#) (Feb 15, Mar 31)
[NOAA Great Lakes Ecosystem Research Program \(GLERL\)](#) (Feb 15, Mar 15)
[NSF Global Scientists & Engineers: Research Experience for Students \(IRES\)](#) (Feb 15)
[NSF Geoscience: Marine Geology & Geophysics](#) (Feb 15)
[NSF: Biological Oceanography Grants](#) (Feb 15)
[USDA / NRI Biology of Weedy & Invasive Species in Agroecosystems](#) (Feb 15)
[USDA / NRI Plant Genome Grants](#) (Feb 15)
[Sea Grant: Industry Fellowship Program](#) (Feb 10, Feb 17)
[EPA National Student Design Competition for Sustainability \(P3\)](#) (Feb 20)
[Mickey Leland Urban Air Toxics Research Awards \(NUATRC\)](#) (Feb 21)
[NOAA Mid-Atlantic Research Set-Aside \(RSA\) Program](#) (Feb 21)
[EPA / NSF / NIOSH / NIEHS: Effects of Manufactured Nanomaterials](#) (Feb 22)
[NIH Pilot-Scale Libraries for High-Throughput Biological Screening](#) (Feb 22)
[NOAA Sea Grant Marine Aquaculture Program](#) (Feb 28, Apr 13)

Deadlines in March

[Ian Axford US-New Zealand Fellowships in Public Policy](#) (Mar 1)
[International Association for Great Lakes Research \(IAGLR\) Scholarships](#) (Mar 1)
[NASA Planetary Biology Internship \(PBI\)](#) (Mar 1)
[NATO Security Through Science Program](#) (Mar 1)
[NIOSH Special Emphasis Research Career Award Program](#) (Mar 1)
[NOAA Environmental Literacy Projects](#) (Mar 1)
[NOAA Environmental Ocean Literacy Grants](#) (Mar 1)
[NOAA Species of Concern Conservation Program](#) (Mar 1)
[North Atlantic Treaty Organization: Collaborative Linkage Grants](#) (Mar 1)
[USDA / NRI Suborganismal Biology and Genomics of Arthropods and Nematodes](#) (Mar 1)
[Wildlife Conservation Society: Research Fellowship Program](#) (Mar 1)
[NSF / CSREES Microbial Genome Sequencing Grants](#) (Mar 2)
[Hudson River Foundation: Polgar Fellowship](#) (Mar 3)
[NOAA Coral Reef Conservation Grant Program/General Grants](#) (Mar 3)
[NSF: Materials Use in Science, Engineering, and Society \(MUSES\)](#) (Mar 13)
[DOE / National Institute for Climate Change Research \(NICCR\) Grants](#) (Mar 14)
[Ame. Philosophical Society: Lewis & Clark Fund for Exploration & Research](#) (Mar 15)
[Great Lakes Basin Program For Soil Erosion & Sediment Control](#) (Mar 15)
[MacArthur Foundation: Conservation and Sustainable Development](#) (Mar 15)
[NOAA Chesapeake Bay Office \(NCBO\) Integrated Science Grants](#) (Mar 15)
[NSF Geosciences: Carbon and Water in the Earth System](#) (Mar 15)
[UVA Mountain Lake Biological Station Summer Graduate Fellowships](#) (Mar 15)
[NSF Integrated Graduate Education & Research Training Program \(IGERT\)](#) (Mar 27)
[Great Lakes Ratza Scholarship](#) (Mar 31)

Deadlines in April

[American Rivers-NOAA Community-Based Restoration Program River Grants](#) (Apr 1)
[EPA Broad Agency Announcement \(BAA\) for Conference Funds](#) (Apr 18)
[Hudson River Foundation: Graduate Fellowships](#) (Apr 20)

Select Seminars and Campus Events

Biochemistry, Molecular and Cell Biology Seminars:

12:20 PM Mondays in G-O1 Biotechnology Building

Schedule at - http://www.mbg.cornell.edu/BMCB_Monday_Seminars.cfm

Biogeochemistry and Environmental Biocomplexity Seminars:

4:00 PM Fridays in Morison Room, Corson Hall

Schedule at - <http://www.biogeo.cornell.edu/seminars.html>

Biophysics Seminars:

4:30 PM Wednesdays in 700 Clark Hall

Schedule at - <http://www.drbio.cornell.edu/Dissemination/seminars.html>

Civil and Environmental Engineering Seminars:

Variable dates, times and locations

Schedule at - <http://www.cee.cornell.edu/fbxk/seminars.cfm>

Crop and Soil Sciences Seminars:

12:20 PM Thursdays in 135 Emerson Hall

Schedule at - <http://www.css.cornell.edu/seminars/seminar.html>

Earth and Atmospheric Sciences Seminar Series:

Variable dates, times and locations

Schedule at - <http://www.eas.cornell.edu/fbxk/smnrns.cfm>

Ecology and Evolutionary Biology Seminars:

12:30 PM Mondays in A106 Corson Hall

Schedule at - <http://www.eeb.cornell.edu/department/seminars.html>

Entomology Seminars:

3:30 PM Mondays in Corson-Mudd Auditorium

Schedule at - <http://www.entomology.cornell.edu/Jugatae/default.htm>

Genetics and Development:

12:20 PM Wednesdays in GO1 Biotechnology Building

Schedule at - http://www.mbg.cornell.edu/GD_Wednesday_Seminars.cfm

Horticulture Seminars:

11:15 AM Mondays in Whetzel Room, Plant Science 404

Schedule at - http://www.hort.cornell.edu/department/news_events/2005springseminar.pdf

Laboratory of Ornithology Seminar Series:

7:30 PM Mondays in the auditorium of the Johnson Center for Birds and Biodiversity

Schedule at - <http://www.birds.cornell.edu/LabPrograms/Education/MNSFallod.html>

Molecular Biology and Genetics Seminars:

4:00 PM Fridays in G10 Biotechnology Building

Schedule at - http://www.mbg.cornell.edu/MBG_Seminars.cfm

Natural Resources Seminars:

3:30 PM Tuesdays in 304 Fernow Hall

Schedule at - <http://www.dnr.cornell.edu/events/seminars/>

Plant Biology Seminars:

11:15 AM Fridays in 404 Plant Science, Whetzel Room

Schedule at - <http://www.plantbio.cornell.edu/seminars.php>

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