

# **Biodiesel Research: A Bibliography and Finding Aid**

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# Table of Contents

Introduction .....	3
Web Sites.....	3
Background .....	3
Government Information .....	4
Federal .....	4
State .....	5
International.....	5
Student Competitions .....	6
Case Studies .....	6
Research Centers .....	8
Testing and Performance.....	8
Periodicals and News Sources.....	9
Research Journals .....	9
News Sources .....	10
Bibliographies .....	10
Books, Reports, and Audio-visual.....	10
Articles .....	13

# Introduction

With gas prices soaring, people are looking for cheaper, renewable sources of fuel for their vehicles. Biodiesel fuel is used in diesel engines and is made from domestically available, renewable organic resources, such as vegetable oils and animal fats. Biodiesel burns cleaner (i.e. produces fewer emissions) than traditional petroleum diesel fuel and is biodegradable, making it an interesting alternative fuel option in terms of both environmental protection and U.S. energy independence.

Biodiesel fuels most commonly available are really blends of biodiesel and petroleum diesel (B20, or 20% biodiesel, 80% petroleum diesel, for example). An American Society of Testing and Materials (ASTM) standard does exist for biodiesel (ASTM D6751). Based upon that standard, only pure (100%) biodiesel should be referred to as such. Any blend of biodiesel and petroleum diesel is properly referred to as "biodiesel blend."

The intended audience for this publication is scientists and engineers interested in the technical aspects of biodiesel formulation and use. For more a more general overview of biodiesel, see the sites listed in the background section of this document and the biofuels page on the Greening Schools web site ([http://www.greeningschools.org/resources/view\\_cat\\_teacher.cfm?id=134](http://www.greeningschools.org/resources/view_cat_teacher.cfm?id=134)).

This is not an exhaustive bibliography, so it also includes information that will help you continue research at your local library. The WMRC Library does not supply copies of materials cited in this publication. These materials should be available through your local library's interlibrary loan service. E-mail [library@wmrc.uiuc.edu](mailto:library@wmrc.uiuc.edu) with comments or questions.

## Web Sites

### ***Background***

#### **Alternative Fuels Data Center – Biodiesel**

<http://www.eere.energy.gov/afdc/altfuel/biodiesel.html>

Good overview from the U.S. Department of Energy. Includes sections on its benefits, the biodiesel manufacturing process, markets, legislation, and current research and development.

#### **Biodiesel - A Fuel For the Future**

<http://yosemite.epa.gov/r10/AIRPAGE.NSF/webpage/Biodiesel+-+A+Fuel+For+the+Future>

Introduction to biodiesel from U.S. EPA Region 10. Includes links to biodiesel projects in the Pacific Northwest.

#### **Biodiesel America**

<http://biodieselamerica.org/>

Website of Josh Tickell, author of *From the Fryer to the Fuel Tank*.

#### **Biodiesel Links**

[http://www.wmrc.uiuc.edu/main\\_sections/tech\\_assist/biodiesel\\_links.cfm](http://www.wmrc.uiuc.edu/main_sections/tech_assist/biodiesel_links.cfm)

Links to general information sites about biodiesel.

### **Biodiesel NOW**

<http://www.biodieselnow.com/>

Volunteer-run biodiesel information site. Includes online discussion forums on various biodiesel topics.

### **Biodiesel Performance, Costs, and Use**

<http://www.eia.doe.gov/oiaf/analysispaper/biodiesel/>

Excellent summary of biodiesel from the U.S. Energy Information Agency.

### **Clean Alternative Fuels: Biodiesel**

<http://www.epa.gov/otaq/consumer/fuels/altfuels/420f00032.pdf>

U.S. EPA fact sheet includes a brief overview of biodiesel and its uses.

### **National Biodiesel Board**

<http://www.biodiesel.org/>

The National Biodiesel Board (NBB) is the national trade association representing the biodiesel industry as the coordinating body for research and development in the United States.

## ***Government Information***

### **Federal**

#### **Biodiesel Emissions Analysis Program**

<http://www.epa.gov/otaq/models/biodsl.htm>

Using existing data, the EPA's biodiesel emissions analysis program sought to quantify the air pollution emission effects of biodiesel for diesel engines that have not been specifically modified to operate on biodiesel. The program examined the emission impacts of biodiesel and biodiesel/diesel blends for both regulated and unregulated pollutants, as well as fuel economy.

#### **Biodiesel in the National Parks**

<http://www.nps.gov/renew/npsbiodiesel.htm>

Beginning with a pilot project at Yellowstone National Park in 1995, biodiesel use in the National Parks was expanded through the Green Energy Parks Program and presently twenty nine areas are using biodiesel or biodiesel blends.

#### **Biomass Program (U.S. Department of Energy, Energy Efficiency and Renewable Energy)**

<http://www.eere.energy.gov/biomass/>

The U.S. Department of Energy (DOE) Biomass Program develops technology for conversion of biomass (plant-derived material) to valuable fuels, chemicals, materials and power, in order to reduce dependence on foreign oil and foster growth of biorefineries.

#### **Federal Network for Sustainability Biodiesel Initiative**

<http://www.federalsustainability.org/initiatives/biodiesel.htm>

The Federal Network for Sustainability, through participating federal agencies, is partnering with the [West Coast Collaborative](#) and the [Far West Regional Laboratory Consortium](#) to identify promising federal biodiesel projects that will encourage increased federal use of biodiesel and alternative fuels along the West Coast.

## State

This section provides pointers to Illinois programs only. For more information on activities in other states, see:

- State Policies Related to Biomass  
[http://www1.eere.energy.gov/biomass/state\\_policy.html](http://www1.eere.energy.gov/biomass/state_policy.html)
- Database of State Incentives for Renewable Energy  
<http://www.dsireusa.org/>
- Alternative Energy Resources by State  
[http://www.eere.energy.gov/states/alternatives/resources\\_by\\_state.cfm](http://www.eere.energy.gov/states/alternatives/resources_by_state.cfm)

### **Illinois Clean School Bus Program**

<http://www.epa.state.il.us/air/cleanbus/>

The Illinois Clean School Bus Program will provide funding to assist schools/school districts to reduce emissions from diesel-powered school buses. See also IEPA's Alternative Fuels web site at <http://www.epa.state.il.us/agriculture/alternative-fuels.html>.

### **Illinois Waste Management and Research Center Biodiesel Initiative**

[http://www.wmrc.uiuc.edu/main\\_sections/tech\\_assist/biodiesel.cfm](http://www.wmrc.uiuc.edu/main_sections/tech_assist/biodiesel.cfm)

Scientists at the Illinois Waste Management and Research Center (WMRC) are exploring ways to produce biodiesel from waste streams, such as waste cooking oil. The 100% pure biodiesel produced is being used to fuel a standard diesel Ford 250 pickup truck. WMRC researchers will evaluate the performance of the biodiesel under various conditions and seek ways to improve or innovate upon the process of biodiesel production.

## International

### **Biodiesel on the ManagEnergy Website**

<http://www.managenergy.net/indexes/I138.htm>

From the European Commission Directorate-General for Energy and Transport. Includes links to legislation, case studies, reports, and European biodiesel organizations. An excellent web portal for European biodiesel resources.

### **Civitas Biodiesel**

[http://www.civitas-initiative.org/measure\\_fields.phtml?lan=en](http://www.civitas-initiative.org/measure_fields.phtml?lan=en)

Civitas is the European Union's initiative for cleaner, more sustainable cities. Click on Clean Vehicles and Fuels in the box on the left and Biodiesel in the box on the right for a list of relevant publications.

### **Journey to Forever: Hong King to Cape Town Overland**

<http://journeytoforever.org/>

Journey to Forever is a pioneering expedition by a small, mobile NGO (Non-Government Organization) involved in environment and rural development work, starting from Hong Kong and traveling 40,000 kilometers through 26 countries in Asia and Africa to Cape Town, South Africa. Includes a large section on biofuels at <http://journeytoforever.org/biofuel.html>.

## **Student Competitions**

These are national student competitions. There are also student vehicle competitions sponsored by specific colleges and universities, as well as state and local non-profit agencies. These include the Indiana Biodiesel Board, which partners with Purdue University students; Ohio State University's Center for Automotive Research; and Michigan Technological University.

### **Challenge X: Crossover to Sustainable Mobility**

<http://www.challengex.org/>

Three-year competition that provides engineering schools an opportunity to participate in hands-on research and development with leading-edge automotive propulsion, fuels, materials, and emissions-control technologies. Seventeen teams will re-engineer a GM Equinox, a crossover sport utility vehicle to minimize energy consumption, emissions, and greenhouse gases while maintaining or exceeding the vehicle's utility and performance. For a list of participating schools, see <http://www.challengex.org/teams/index.html>. Previous versions of this contest included the FutureTruck Competition (through 2004)

(<http://www.transportation.anl.gov/research/competitions/futuretruck/>) and the FutureCar Challenge (through 1999) ([http://www.eere.energy.gov/afdc/pdfs/student\\_comp.pdf](http://www.eere.energy.gov/afdc/pdfs/student_comp.pdf)).

### **EPA P3 Award -- A Student Design Award for Sustainability**

<http://es.epa.gov/ncer/p3/>

EPA and its partners launched the P<sup>3</sup> Award in 2003 to promote innovative thinking for moving the world toward sustainability. Through this national student design competition, college students gain new skills and knowledge as they research, develop, design, and implement scientific and technical solutions to environmental challenges. Middlebury College received funding for a project entitled "Demonstrating the Feasibility of a Biofuel: Production and Use of Biodiesel from Waste Oil Feedstock and Bio-based Methanol at Middlebury College." See [http://es.epa.gov/ncer/p3/project\\_websites/2004/su831893.html](http://es.epa.gov/ncer/p3/project_websites/2004/su831893.html) for more information.

## **Case Studies**

### **Biofuels in the Developing World**

[http://www.cubiodiesel.org/biofuels\\_in\\_the\\_developing\\_world.php](http://www.cubiodiesel.org/biofuels_in_the_developing_world.php)

Case study of efforts by CUBiodiesel. A group of students traveled to Bogotá, Colombia built the first biodiesel plant in South America, and the first high altitude tropical plant in the world.

### **Bonnie Raitt Hits the Road Again With Cleaner Burning Biodiesel**

[http://www.biodiesel.org/resources/pressreleases/gen/20051005\\_Bonnie\\_Raitt.pdf](http://www.biodiesel.org/resources/pressreleases/gen/20051005_Bonnie_Raitt.pdf)

Press release from the National Biodiesel Board describing how Bonnie Raitt used E20 to fuel the busses on one of her tours.

### **Bus Fleet in Graz Turns 100 Percent Biodiesel**

<http://www.trendsetter-europe.org/index.php?ID=2546>

Bus travelers in Graz know it as "Ökodrive", as in ecological driving. A Trendsetter project has helped the City of Graz to quickly turn the city bus fleet into running on 100 % biodiesel fuel. "By the beginning of next year we will have no more fossil fuel buses", says Gerhard Ablasser, deputy chief of the Graz office for urban development and town preservation.

### **Community-Scale Biodiesel**

[http://cfpub.epa.gov/ncer\\_abstracts/index.cfm/fuseaction/display.abstractDetail/abstract/7177/report/F](http://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display.abstractDetail/abstract/7177/report/F)

EPA P3 grant project from Oberlin College proposing to build a community-scale biodiesel processing facility. For more information about biodiesel at Oberlin College, see:

- Biodiesel Oberlin  
<http://www.oberlin.edu/stuorg/biodiese/index.htm>
- Burning the Veggie Oil  
<http://www.oberlin.edu/news-info/04jun/stephenMerrett.html>
- Off the Grid -- Biodiesel Production  
<http://www.oberlin.edu/news-info/04mar/bioDiesel.html>

### **Green Berets Prefer Biodiesel**

<http://www.wired.com/news/autotech/0,2554,68969,00.html>

*Wired Magazine* article about the U.S. military's use of biodiesel. Includes links to other *Wired* stories about biofuels.

### **Greening the National Park Service: Yellowstone Park's Biodiesel Truck**

<http://www.nps.gov/renew/yellbio.htm>

In 1995 Yellowstone National Park began a test project running a Dodge pickup on 100% biodiesel. To date this truck has traveled over 185,000 miles while using no petroleum fuels.

### **Potential Impact of Biodiesel on SDDOT**

<http://www.state.sd.us/Applications/HR19ResearchProjects/oneproject%5Fsearch.asp?projectnbr=SD2002-12>

Research project from the South Dakota Department of Transportation. The study's three objectives were to: assess the compatibility of biodiesel fuel with SDDOT's vehicle fleet and storage facilities; determine the conversion and ongoing cost for SDDOT to use biodiesel in its vehicle fleet; and estimate the overall economic impact to the Department if SDDOT were to use biodiesel in its vehicle fleet.

### **Project Biobus**

<http://www.projectbiobus.com/>

From May 19th to June 11th, 2003, 13 Middlebury College students traveled across the country on a vegetable oil powered school bus. This web site details their journey and subsequent activities.

### **Improving Air Quality with Biodiesel**

<http://renewableenergyaccess.com/rea/news/story?id=37107>

One Chicago school bus company has taken a big step to see that thousands of Chicago area schoolchildren are breathing cleaner air by using soy-based biodiesel fuel to reduce the emissions from its diesel-powered school buses.

### **Cadets Launch Operation Soy Boat in an Effort to Turn the Coast Guard "Green"**

<http://www.uscg.mil/hq/uscg/newsstoriesread3462.htm>

A team of Coast Guard cadets is working on the second phase of a project studying the feasibility of Coast Guard vessels to operate on biodiesel fuel, in an effort by the service to be part of solving environmental crises—unabated fossil fuel consumption and harmful emissions. See a



PowerPoint presentation about the cadet's biodiesel project at <http://www.uscg.mil/hq/uscgacademics/academicmajors/biodiesel%20laboratory%20testing.pdf>

### **University of Vermont Department of Parking and Transportation**

<http://www.uvm.edu/~bdiesel/?Page=about.htm>

From 2001-summer 2004 UVM experimented with biodiesel. The pure biodiesel fuel (B100) was stored 55-gallon drums in a building near the bus parking area. The B100 was transferred into smaller containers, poured by hand into the buses, and mixed 20% with petroleum diesel by driving the bus over bumps. Unfortunately, this fueling method is costly and labor intensive. UVM is currently looking for a better way to purchase, store, and handle biodiesel. As of October 2004, UVM has run out of its test biodiesel and is working towards establishing a fueling facility in partnership with local organizations.

### **U.S. Military Facilities Increasingly Fill Up with Biodiesel**

[http://www.biodiesel.org/resources/pressreleases/fle/20030616\\_military\\_users.pdf](http://www.biodiesel.org/resources/pressreleases/fle/20030616_military_users.pdf)

From the U.S. Marine Corps Base in Camp Lejeune, North Carolina to Everett Naval Station in the Puget Sound area of Washington, military installations across the country are choosing to use biodiesel blends in their diesel-powered vehicles. Biodiesel is a cleaner-burning fuel made from renewable fats or vegetable oils that can help increase U.S. energy security by reducing dependence on foreign sources of oil.

### **Willie Nelson Biodiesel**

<http://www.wnbiodiesel.com/articles.html>

Archive of press coverage relating to Willie Nelson Biodiesel (also known as BioWillie – see also <http://biowillie.com>).

## ***Research Centers***

Other colleges and universities working on biodiesel include:

- [Iowa State University Biodiesel](#)
- [James Madison University Biodiesel](#)
- [Oregon State University Biodiesel Initiative](#)
- [Rice University Biodiesel Initiative \(RUBI\)](#)
- [University of British Columbia Biodiesel Project](#)
- [University of California at Santa Cruz](#)
- [University of Colorado at Boulder CU Biodiesel](#)
- [University of Connecticut Biodiesel Research & Development Efforts](#)
- [University of Idaho Biodiesel Research](#)
- [University of Missouri Biodiesel/Biofuels Research](#)
- [University of Nevada, Reno](#)
- [University of New Hampshire \(UNH\) Biodiesel Research Group](#)
- [University of Toronto](#)
- [University of Wisconsin - Madison & Madison Area Technical College UW/MATC Biodiesel Reactor](#)

## ***Testing and Performance***

### **Life Cycle Inventory of Biodiesel and Petroleum Diesel for Use in an Urban School Bus**

<http://www.nrel.gov/docs/legosti/fy98/24089.pdf>

The purpose of the study was to quantify, to the extent possible, some of the benefits of biodiesel. In this study, researchers focused on those benefits related to biodiesel energy's balance, its effect on emissions of greenhouse gases, and its effects on the generation of air, water and solid waste pollutants.

### **On-Road Testing of Biodiesel - A Report of Past Research Activities**

[http://www.uidaho.edu/bae/biodiesel/research/past\\_research.html](http://www.uidaho.edu/bae/biodiesel/research/past_research.html)

The University of Idaho is working with four diesel-powered pickups in the BIODIESEL tests. A 1992 Dodge pickup is powered by a 5.9 liter turbo-charged and inter-cooled engine. This engine is direct injected and runs on 20 percent methyl ester of rapeseed oil (RME) and 80 percent diesel (D2). A Ford pickup, which has an engine with a pre-combustion chamber, uses 20 percent raw rapeseed oil and 80 percent D2. It is powered by a 7.3 liter, naturally aspirated engine. Engines are not modified, but modifications have been made to the pickups for testing convenience.

### **RTD Biodiesel (B20) Transit Bus Evaluation**

<http://www.eere.energy.gov/afdc/pdfs/38364.pdf>

The National Renewable Energy Laboratory (NREL) worked with the Regional Transportation District (RTD) of Denver, Blue Sun Biodiesel, and Power Service Products to evaluate the in-use performance of buses operating on B20 (20% biodiesel and 80% conventional diesel fuel). Nine mechanically identical 40-foot transit buses (five operated on B20, four on conventional diesel) are being compared over the same duty cycle, the "Skip" route in Boulder, Colorado. In addition, laboratory tests compared the buses for fuel economy and emissions. This report summarizes the interim results for the period August 2004 through February 2005.

## ***Periodicals and News Sources***

### **Research Journals**

There are no research journals specifically devoted to biodiesel research. However, the following titles often feature articles about various aspects of biodiesel production and use:

- *Applied Biochemistry and Biotechnology*
- *Biomass & Bioenergy*
- *Bioresource Technology*
- *Energy & Fuels*
- *Energy Conversion and Management*
- *Energy Sources*
- *European Journal of Lipid Science and Technology*
- *Fuel*
- *Fuel Processing Technology*
- *Industrial and Engineering Chemistry Research*
- *Journal of Scientific and Industrial Research*
- *Journal of the American Oil Chemists' Society*
- *Renewable and Sustainable Energy Reviews*
- *Renewable Energy*
- *Transactions of the ASAE*

## News Sources

### Biodiesel and Biobased News

<http://www.thesoydailyclub.com/BiodieselBiobased/news.asp>

### Biodiesel Magazine

<http://www.bb biofuels.com/biodieselmagazine/>

Subscription rate: 9 issues for \$24.95

### Environmental News Bits: Biofuels

<http://radio.weblogs.com/0141565/categories/biofuels/>

Spin off of the WMRC Library's Environmental News Bits web site. Focuses specifically on biofuels news.

### Green Car Congress

<http://www.greencarcongress.com/>

Web log devoted to all aspects of sustainable transport, including biofuels. An excellent resource for keeping up with new sustainable transportation technologies.

## Bibliographies

### Alternative Fuels Data Center New Documents

[http://www.eere.energy.gov/afdc/progs/new\\_docs.cgi](http://www.eere.energy.gov/afdc/progs/new_docs.cgi)

### Journey to Forever Online Biofuels Library

[http://journeytoforever.org/biofuel\\_library.html](http://journeytoforever.org/biofuel_library.html)

### DOE Biomass Document Database

[http://www1.eere.energy.gov/biomass/document\\_database.html](http://www1.eere.energy.gov/biomass/document_database.html)

The Biomass Document Database is a collection of public documents of the U.S. Department of Energy (DOE) Biomass Program.

## Books, Reports, and Audio-visual

The Library of Congress Subject Headings (LCSH) includes the term **Biodiesel Fuels**. A broader LCSH term is **Vegetable Oils As Fuel**. When searching for materials about cold-weather biodiesel performance, the subheading **Cold weather operation** is helpful. Some relevant Dewey Decimal classification numbers include:

- 333.7968 – Economics of energy for use in transportation and commerce
- 621.042 – Energy engineering (engineering of alternative and renewable energy sources)
- 662.669 – Other liquid fuels (662.6692 is for alcohol as fuel)

*Beyond a Billion : Clean Cities Coalitions have Displaced More than a Billion Gallons of Gasoline* (2005). . Washington, DC: U.S. Department of Energy, Clean Cities Program.

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