



## **Virginia Clean Cities 1 of 16 Projects Awarded Funding to Expand the Use of Alternative Transportation Fuels**

On October 25, 2006, the U.S. Department of Energy Secretary Samuel W. Bodman announced \$8.6 million for 16 projects. Over \$25 million will be invested in the nations alternative fuel infrastructure, when combined with funding from participants. The three topic areas included in the Clean Cities grant are Refueling Infrastructure for E85 and Alternative Fuels; Incremental Cost for Alternative Fuel Vehicles; and Idle Reduction Training and Awareness for School Districts.

Virginia Clean Cities developed a proposal, for the Department of Mines, Minerals and Energy, for a regional two-year project to install up to 12 publicly accessible E85 dispensing stations along the I-95, I-64 Crescent corridor that passes through Virginia, Maryland and the District of Columbia. Our project will make E85 available to an estimated 15,000 public and private flex fuel vehicles.

Other project partners include the State of Maryland, the Virginia Regional Environmental Management System (V-REMS), a diverse group of local, state and federal partners that includes GSA, EPA and DOD.

To read more about the announcement, visit:  
<http://www.energy.gov/news/4404.htm>

Virginia Clean Cities is looking for retail partners who are willing to install E-85, especially in the I-95, I-64 Corridors, and the cities of Chesapeake, Charlottesville, Roanoke, and the Northern Virginia area. Contact Al if you are interested: [al.christopher@hrccc.org](mailto:al.christopher@hrccc.org).

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### **Items of interest this month:**

- PAPCO Biodiesel Ribbon Cutting Ceremony/Media Event Highlights
- AFV Day Odyssey Highlights
- Woodfin Oil Company Opens Public Biodiesel Station
- Virginia Hydrogen Economy Strategy and Vision Documents Now Available Online
- Governor Celebrates Opening of First State-Owned E85 Station and GM Provides Commonwealth with E85-Capable Chevrolet Tahoe
- NEVC 2007 FFV Offerings
- Energy Virginia Conference Presentations Now Posted
- "Energy InSecurity: What Can We Do About It?" Presentation Posted
- Virginia Tech Energy Research Engagement Showcase
- Reminder: Virginia Clean Cities Address Change
- Tax Credits for Toyota Hybrids Phased Out October 1<sup>st</sup>
- Electric Drive Transportation Association Conference & Exposition: November 28-30
- Virginia Clean Cities Biodiesel Production and Usage Workshops: Register Online!

## First Public Biodiesel Pump Opens in Hampton Roads as Virginia Beach Public Schools Makes the Switch

The Mayor of Virginia Beach and many others celebrated the opening of PAPCO's retail public biodiesel pump on September 13, 2006. PAPCO Oil Company's station is located at 4920 Southern Boulevard in Virginia Beach and is now selling B20, a mixture of 20 percent biodiesel and 80 percent diesel, to the public.



Left: Mayor Oberndorf remarking on the significant event



Right: Virginia Beach Public School bus receiving it's first gallon of B20!

Children attending public school in Virginia Beach now ride to and from school on a bus fueled by cleaner-burning biodiesel. Virginia Beach Public Schools (VBPS) is currently the largest Virginia school bus fleet to use B20 to date. Their decision is significant because Virginia Beach Public Schools operate over 600 school buses, of which one-third will use biodiesel, that drive in excess of 10 million miles per year.

Mayor of Virginia Beach, Meyera Oberndorf attended the event and provided remarks commending PAPCO for its leadership in providing alternative fuels to the public, and VBPS leadership in providing a safer and healthier environment for our children. President and CEO of PAPCO, Inc., John Malbon, expressed his excitement of the companies decision to move forward with their biodiesel program. And if there wasn't already enough to celebrate, Owner of AHR Communications, Elaine Cayton, announced her company would provide discounted advertising to all private fleets that decided to give biodiesel a try.

Other biodiesel users in the state include Arlington County Schools, Gloucester County schools, James Madison University, the City of Harrisonburg and Harrisonburg Public Schools, the University of Virginia, and the City of Charlottesville, the U.S. Air Force, NASA Langley, Valley Proteins, Westmoreland Public Schools, the National Park Service, the US Navy, Portsmouth Public Schools, Yorktown, Newport News, Northumberland Public Schools, James City County, Greater Richmond Transit Company, CTI, Williamsburg-James City County Public Schools, and others.



Mayor Oberndorf and John Malbon



Dave Pace, Mayor Oberndorf, John Malbon

Now anyone in Hampton Roads that has a diesel vehicle has a choice—a choice to choose a fuel that is better for our economy, our health, our environment, and our future. We commend PAPCO, VBPS, and Admobile for coming together to contribute to a successful event and celebration.

To learn more about AdMobile's Biodiesel Promotion, email Elaine Cayton at [elaine.cayton@ahrcommunications.com](mailto:elaine.cayton@ahrcommunications.com).



## AFV Odyssey Day 2006 Highlights



U.S. General Services  
Administration



New West Technologies, LLC



AFV Day Odyssey 2006 was held at Arlington's Courthouse Plaza on October 12, 2006. The National Media Kickoff Event organized by the NAFTC began at 10 a.m. Speakers included Al Ebron (NAFTC), Chris Zimmerman (Arlington County Board), Rick Kasper (GEM), Martha Voss (Toyota), Brian Wynne (EDTA), and Scott Hughes (NBB).

Virginia Clean Cities and New West Technologies organized the main session, which included a welcome and Arlington's perspective on the importance of petroleum reduction by Paul Ferguson (Arlington County Board). Ric Hiller (Arlington County) provided a few remarks relating to Arlington County's dedication



to alternative fuels and a cleaner environment, and Dennis Smith (DoE Headquarters) remarked on how just a few passionate individuals are making events like Odyssey Day happen and are making a difference in the process. Tom Whipple brought us back to reality with a few facts on peaking oil and oil consumption, and was then followed by his wife Senator Mary-Margaret Whipple, who described the importance of government leadership in the fight for petroleum reduction. The main session closed with Virginia Clean Cities awarding a few individuals for their leadership in alternative fuels.



### *"Another One Rides the Alternative Fuel Bus" Award*

This award was presented to Chris Zimmerman, Arlington County Board Chair, recognizing his long-term commitment to alternative fuels, and in particular his leadership in working with local transit organizations like Metro and ART to move them toward using alternative fuels.

### *"Walk the Walk" Award*

You often hear about folks who "talk the talk", but don't "walk the walk". It would be really easy for local leaders to get up and say "do this," but "I don't have to." Well, in Arlington, that's just not the case. Both the Whipple's are passionate about the cause of reducing our reliance on petroleum and improving the environment. That passion even carries over to their own personal choices for transportation. The Whipple's fleet consists of:

- The Honda Civic GX natural gas vehicle you saw in the vehicle display area, along with a Segway in the back
- A Jeep Grand Cherokee, that on their own initiative, they converted to also operate on natural gas
- A Toyota Prius
- And an "E-max", and electric scooter
- They also have their own natural gas refueling system at their house.

Wow! it's rare that you see folks back up their words with this level of commitment. Therefore, Virginia Clean Cities presented the first "Walk the Walk" award to Senator Mary-Margaret and Tom Whipple.

### *Leadership and Pioneering Efforts in Alternative Fuels Award*

Virginia Clean Cities' Leadership and Pioneering Efforts in Alternative Fuels Award was presented to a County in Virginia that is literally a model for petroleum reduction. In 2004, this County's Board of Supervisors passed a

resolution on the Reduction of Transportation Petroleum Use. The resolution set a goal of reducing the County's petroleum usage by 20 percent by 2010.

As we all know, many resolutions are passed and some end up being more lip service than real. However, this effort includes milestones, performance measurements, and incentives to actually achieve this goal. But most importantly, there is a Champion that keeps everyone at the table and moving forward. Therefore, the Award for Leadership and Pioneering Efforts in Alternative Fuels was presented to James City County Fleet and Equipment. Buddy Stewart, the Fleet Administrator of James City County in Hampton Roads, accepted the award. Thanks again James City County. You make our job easy!

*Award for Leadership and Pioneering Efforts in Alternative Fuels Research, Education & Demonstration*

Our last award was for a stakeholder that could not join us in Arlington because they hosted a wonderful event in Harrisonburg. Virginia Clean Cities will present James Madison University with an award in December for Leadership and Pioneering Efforts in Alternative Fuels Research, Education & Demonstration. JMU began an alternative fuels program, with a special focus on biodiesel, before biodiesel was known or before BioWillie or Daryl Hannah supported it. Faculty work many extra hours to perform outreach and education for the next generation to ensure we do not continue down the same path we are on.

**The following vehicles were on display:**

**Hydrogen-Fuel Cell** (not available to consumers) – Hydrogen is a fuel that can be used in an internal combustion engine or in a fuel cell. The vehicle must be able to accommodate a high-pressure storage cylinder or some other means of storing or producing hydrogen. Hydrogen is usually created in a gas-manufacturing facility, but can be generated onboard the vehicle in a process known as “reforming”.

1. Toyota Hydrogen-Fuel Cell
2. GM Hydrogen3-Fuel Cell

**Battery-Powered Electric Vehicles** - Neighborhood Electric Vehicles are cars with electric motors and rechargeable batteries, normally limited to a maximum speed of 25 mp. The batteries are recharged by plugging the vehicle into the electrical grid (public utility network). They are useful for replacing conventional vehicles in a number of applications like campuses, farms, power plants, and lower-speed streets, with very low fuel costs.

3. GEM e4
4. GEM e4

**Hybrid-Electric Vehicles** – Hybrid-electric vehicles use an internal combustion engine or a fuel cell in conjunction with one or more electric motors and a rechargeable battery. The battery is recharged internally by the engine or the fuel cell. Batteries are also charged by regenerative braking. Braking turns the electric motor into a generator.

5. Honda Civic
6. Toyota Prius
7. Ford Escape
8. Chevy Silverado
9. Toyota Camry
10. Ford Escape w/Segway
11. Honda Insight

**Vehicles Using Biodiesel Fuel** – Biodiesel is a fuel made from plant oils (soybean, canola, sunflower, peanut, and others) or animal fats. Biodiesel can be mixed in blends with diesel and used in conventional diesel vehicles. Typical blends are 20% biodiesel or less. Biodiesel also has high lubricity and thus is sometimes used as a lubricity improver through low-level (2% or 5%) blends.

12. Dodge Sprinter
13. Volkswagen Jetta

**Ethanol Flex Fuel Vehicles (FFVs)** – Ethanol is an alcohol based fuel made from crops (corn, sugar cane and other crops). It can be used alone or blended with gasoline. Conventional internal combustion engines can run on 10% ethanol, while flexible-fuel vehicles can run on higher concentrations, such as 85% ethanol. It is widely available in many popular models, which can run on any ethanol/gasoline mixture from 85% ethanol to 100% gasoline. ~6 million on U.S. roads already.

14. Dodge Mini-van E85 FFV
15. Ford Taurus E85 FFV
16. Dodge Caravan E85 FFV – Sustainable Energy Strategies Inc.

**Natural Gas Vehicles (NGVs)** – Natural gas is used in vehicles in two forms: compressed at high pressures, or cryogenically cooled to a liquid form. Compressed natural gas is distributed by a nation-wide pipeline system. Liquefied natural gas must be obtained at a special fueling facility. Low emissions, typically lower cost fuel, availability of home refueling are some advantages of NGVs.

17. Civic GX w/Segway in back
18. Ford Crown Victoria
19. ART CNG Bus
20. WMATA Bus - CNG

#### Miscellaneous Vehicles

21. WMATA Commuter Store Bus
22. FlexCar – (Honda Civic Hybrid) - vehicle on demand, increasing in popularity in urban areas, DC area is one of only 2 areas in country with both FlexCar and ZipCar.
23. ZipCar – same as above.

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### Woodfin Oil Company Opens Public Biodiesel Station in Richmond Area



On October 25, 2005, Woodfin Oil Company held a ribbon cutting ceremony to celebrate the opening of the first public biodiesel pump in the Richmond area. The site, located at the Varina Pit Stop on New Market Road, is now selling B5.

The Woodfin family watched as Virginia's Attorney General Bob McDonnell cut the ribbon marking the opening of the station.



Woodfin is selling biodiesel at 3 other sites around the Richmond area, including:

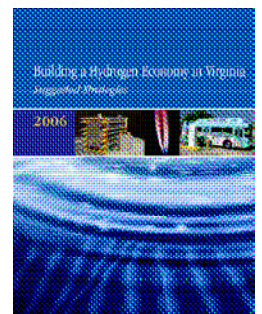
- Ladysmith Pit Stop, Ladysmith Road, Ruther Glen
- Ruther Glen Pit Stop, Rogers Clark Blvd, Ruther Glen
- Woodfin Commerciala Site, North Hamilton Street, Richmond

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### Virginia Hydrogen Economy Strategy and Vision Documents Now Available Online!

The Virginia hydrogen plan and hydrogen vision, developed by the Virginia Hydrogen Economy Roundtable, recommends actions to foster the development of a hydrogen economy in Virginia. The final vision and strategy documents can be found on our homepage: [www.hrccc.org](http://www.hrccc.org). The link is located on the left, in the sidebar.

The Virginia Hydrogen Economy Roundtable is a forum created in 2002 comprised of representatives from more than thirty energy and transportation related industries, federal and Virginia government agencies, Virginia academic institutions, and non-governmental organizations.



## **Governor Dedicates First Government Owned E85 Station – 1,300 State Vehicles to Use E85**

On Monday, October 16, 2006, Governor Tim Kaine announced an initiative that aims to provide E85 to 1,300 state-owned flex-fuel vehicles. The initiative, or “the Virginia E85 Fueling Infrastructure Project,” initially establishes three sites for government-owned fleets to get E85. The event was held at the Department of General Services Office of Fleet Management Services in Richmond where the first E85 pump was dedicated. Two additional sites in Northern Virginia and Hampton Roads are planned.



General Motors provided an E-85 capable Chevrolet Tahoe to the Commonwealth of Virginia as part of an ongoing campaign to promote ethanol in the state.

The E85 ethanol vehicle presentation is part of a campaign by GM and the Governors’ Ethanol Coalition (GEC), a bipartisan group of governor’s devoted to the promotion and increased use of ethanol. This collaborative effort began in 2005, and is designed to increase awareness of E85 ethanol. Virginia plans to showcase the E85-capable Chevrolet Tahoe at events throughout the year.



Research has shown that many owners of flex-fuel vehicles do not know that their vehicles are capable of using E85 ethanol. As a result, GM has initiated a consumer education and advertising campaign aimed at promoting the benefits of E85 ethanol and GM’s flexible fuel vehicle leadership, and encouraging consumers to actively promote E85 in their communities. “Live Green Go Yellow” ads continue throughout the year with print, web (livegreengoyellow.com) and broadcast media components.



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## **Overview of ethanol, E85, and 2007 Flexible Fuel Vehicle (FFV) Offerings**

The NEVC recently published a brochure, which includes a brief overview of ethanol and E85. What is most useful about this brochure is the instructions on how to determine if your vehicle is E85 compatible. NEVC breaks down by manufacturer, which model, model year and engine sizes are E85 compatible, as well as how to check the VIN of your vehicle to confirm the flexible fuel option.

[http://www.e85fuel.com/forsuppliers/imgs/2007\\_e85\\_brochure.pdf](http://www.e85fuel.com/forsuppliers/imgs/2007_e85_brochure.pdf)

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## **Energy Virginia Presentations Now Posted**

Virginia Clean Cities chaired Track 4, Session D: “Alternative Fuels and Advanced Technology Vehicles” at the Inaugural Energy Virginia Conference held at Virginia Military Institute on October 17-18. Presentations included E85 development in Virginia, Hybrid and CNG Technology, James City County’s Model for Petroleum Reduction, Plug-in Hybrid Electric Flex-Fuel Vehicles, Is Propane for Transportation About to Make a Comeback, and What’s to Stop Virginia From Growing a Biofuels Industry? All of these are now available for download on the Energy Virginia webpage:

[http://www.energyvacon.com/Program/Agenda\\_PPT.htm](http://www.energyvacon.com/Program/Agenda_PPT.htm)

## **VaCC “Energy InSecurity: What Can We Do About It?” Presentation Now Posted**

Virginia Clean Cities has given numerous presentations recently, at many different venues. The presentation that participants are frequently requesting is “Energy InSecurity: What Can We Do About It?” This presentation examines the political, economic, and environmental issues facing our nation and the world today, examines what we have done so far to reduce our addiction to oil, and examines where to go from here. Many figures were taken from the recently published Energy Information Administrations Annual Energy Review, and have been interesting to many. If you would like to download this presentation, please visit: <http://www.hrccc.org/resources.html>.

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## **Virginia Tech Energy Research Engagement Showcase: November 29 and 30, 2006**

The Virginia Tech Office of Economic Development is offering business and community leaders an opportunity to learn about energy-related research at Virginia Tech and how communities and companies can profit from this research.

The objectives of this forum are to:

- Encourage awareness of Virginia Tech's energy initiative.
- Foster commercialization of research at Virginia Tech in the energy and energy-related environmental fields
- Enhance public-private partnerships that will make the commonwealth a leader in energy security and sustainability
- The agenda will include discussions in the following areas:
- Virginia's efforts to commercialize energy research
- Renewable Energy Opportunities and Challenges
  - Overview of wind, biomass, and solar research at Virginia Tech
  - Renewable energy from industry's perspective
  - Government initiatives on renewable energy
- Non-Renewable Energy Opportunities & Challenges
  - Overview of nuclear, fossil fuels, hydrogen, fuel cell research at Virginia Tech
  - Non-renewable energy from industry's perspective
  - Government initiatives on non-renewable energy
- Energy Policy, Environment, Infrastructure, Efficiency, Opportunities & Challenges
  - Overview of research at Virginia Tech
  - Challenges & Opportunities from industry's perspective
  - Government initiatives
- Also on the agenda are breakout sessions and research lab visits.

View more details and how to register: <http://www.research.vt.edu/energy/energyevents.html#showcase>

View the agenda: <http://www.research.vt.edu/energy/images/agenda.pdf>

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## **Reminder: Virginia Clean Cities Has a New Address**

Please direct all mail to the following address. We are still getting mail at our old addresses.

Virginia Clean Cities  
c/o Al Christopher  
401 Keith Avenue  
Kilmarnock VA 22482

## Tax Credits for Toyota Hybrids Phased Out October 1<sup>st</sup>

The following excerpt was taken from: <http://www.irs.gov/newsroom/article/0,,id=162562,00.html>

The Internal Revenue Service announced that Toyota Motor Sales, U.S.A., Inc. has submitted quarterly reports indicating that its cumulative sales of qualified vehicles to retail dealers has reached the 60,000-vehicle limit during the calendar quarter ending June 30, 2006. Under the current tax law, the credit for buying a hybrid vehicle begins to phase out during the second calendar quarter after the quarter in which the company sells its 60,000th hybrid or lean burn technology vehicle.

The credit for all new advanced lean burn technology motor vehicles or new qualified hybrid passenger automobiles or light trucks manufactured by Toyota Motor Corporation will begin to phase out on Oct. 1, 2006.

Vehicles purchased before Oct. 1, 2006 qualify for the full credit. For Toyota hybrid vehicles bought on or after October 1, 2006, and on or before March 31, 2007, the credit is 50 percent of the otherwise allowable credit amount. Taxpayers buying vehicles on or after April 1, 2007, and on or before September 30, 2007, can only get 25 percent of the credit.

Here are the credit amounts for Oct. 1, 2006 – March 31, 2007:

- 2005 Prius — \$1,575
- 2006 Prius — \$1,575
- 2006 Highlander 4WD Hybrid — \$1,300
- 2006 Highlander 2WD Hybrid — \$1,300
- 2006 Lexus RX400h 2WD — \$1,100
- 2006 Lexus RX400h 4WD — \$1,100
- 2007 Camry Hybrid — \$1,300
- 2007 Lexus GS 450h — \$775

Here are the credit amounts for April 1, 2007 – September 30, 2007:

- 2005 Prius — \$787.50
- 2006 Prius — \$787.50
- 2006 Highlander 4WD Hybrid — \$650
- 2006 Highlander 2WD Hybrid — \$650
- 2006 Lexus RX400h 2WD — \$550
- 2006 Lexus RX400h 4WD — \$550
- 2007 Camry Hybrid — \$650
- 2007 Lexus GS 450h — \$387.50

Beginning October 1, 2007, taxpayers who buy a Toyota hybrid cannot claim the related tax credit.

Purchasers of Honda, Ford and GM hybrids still qualify for the full tax credit. To find out more on which vehicles qualify for the tax credit, visit <http://www.irs.gov/newsroom/article/0,,id=161076,00.html>.



Toyota Highlander Hybrid



Ford Escape Hybrid



## Electric Drive Transportation Association Conference & Exposition: November 28-30

Officials in Washington are urgently looking to reduce our nation's dependence on oil. The EDTA Conference & Exposition 2006 will be held on Capitol Hill to guarantee that electric drive solutions are adopted and its benefits maximized. EDTA's timely platform will bring key experts together to examine federal policy options to accelerate the adoption of electric drive. Come to Washington to hear and be heard by the policy makers that make critical program and funding decisions for electric drive technologies. The EDTA Conference is the perfect place to:

- identify federal policy trends
- seek out funding opportunities
- pursue key markets for electric drive

Find more information about the EDTA conference here: <http://www.electricdrive.org/conference2006/index.php>

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### Virginia Farmer & Small Producer Workshops on Safe Biodiesel Production and Usage Register Online!

Virginia Clean Cities will be hosting 2 more workshops in Virginia in order to increase awareness of biodiesel as a viable alternative fuel that can be produced on a small-scale and which can take advantage of a community's local resources. These one-day workshops will cover the basics of biodiesel use and production, why it is important to switch to cleaner, domestic and more environmentally friendly fuels, important safe usage and production information, byproducts discussion, case study experiences with making and using biodiesel, permitting and legality information, and much more.

**What:** Western Virginia Farmer & Small Producer Workshop on Safe Biodiesel Production and Usage

**When:** November 20, 2006

**Where:** Virginia Tech, Squires Student Center, Blacksburg, Virginia

Register here: <http://www.hrccc.org/registrationNov20.html>

**What:** Central Virginia Farmer & Small Producer Workshop on Safe Biodiesel Production and Usage

**When:** December 7, 2006

**Where:** Eastside Community Enhancement Center, 7301 Boydton Plank Rd, Petersburg, Virginia

Register here: <http://www.hrccc.org/registrationDec7.html>

More information available here: <http://www.hrccc.org/biodiesel.html>

### Calendar

November 20

November 28-30

November 29-30

December 7

Virginia Tech Biodiesel Workshop

EDTA Conference

VT Energy Research Engagement Showcase

Petersburg Biodiesel Workshop

Disclaimer - Use of logos and references to organizations in the body of this document is for illustration purposes only, and do not imply an endorsement from these for the HRCCC, nor of these by HRCCC.

# Virginia Clean Cities, Virginia Tech and the Virginia Department of Mines, Minerals and Energy presents...



## Farmer and Small Producer Biodiesel Workshop

Monday, November 20, 2006

9:00 am – 4:00 pm

Squires Student Center

221 Squires Student Center, Blacksburg, Virginia



### Agenda:

9:00 a.m.	Registration/Continental Breakfast	
9:45 a.m.	Welcome	Donald Langrehr – Blacksburg Town Council
9:55 a.m.	Overview/Virginia Tech Biodiesel Program	Lisa Schweitzer – Virginia Tech
10:05 a.m.	What is Biodiesel/Who Uses it/Market Update	Chad Freckmann – Blue Ridge Clean Fuels
10:35 a.m.	Oilseed Crops & Markets	Fred Shokes – Virginia Tech Extension Harbans Bhardwaj – Virginia State University Dave Starner – Virginia Tech Extension
11:10 a.m.	The Cooperative Model of Piedmont Biofuels	Matthew Rudolf – Piedmont Biofuels
11:35 a.m.	How Biodiesel is Made Safely	Ian Doran – Virginia Tech
12:00 p.m.	How to Make Biodiesel Legally	Chelsea Jenkins – Virginia Clean Cities
12:20 p.m.	Lunch (provided)	
1:05 p.m.	Safety/Byproducts (glycerol discussion)	Matthew Rudolf – Piedmont Biofuels
1:25 p.m.	Possible Solutions for Glycerol Utilization	Zhiyou Wen – Virginia Tech
1:45 p.m.	Methanol Safety & Availability	Keith Ford, Methanex Cory Mullins, Methanex
2:10 p.m.	Fuel Quality/Fuel Testing	Cathie Johnston – Intertek Caleb Brett
2:30 p.m.	Canola Budget	Mike Roberts – Virginia Tech Extension
2:50 p.m.	Break	
3:05 p.m.	Waste Vegetable Oil Collection	Jason Johannessen – SVWA Biodiesel Initiative
3:30 p.m.	Facilitated Q&A	
4:00 p.m.	Closing Remarks	Chelsea Jenkins – Virginia Clean Cities Lisa Schweitzer – Virginia Tech

### Biodiesel Workshop REGISTRATION Information:

Visit <http://www.hrccc.org/registrationNov20.html>; Fee: \$15 per person

*Note: Payment will be collected on the day of the conference. Only cash, check or money orders accepted. Only those registered online prior to November 20<sup>th</sup> will be admitted. If you cannot register online, call (757) 256-8528 for instructions on how to register. A limited number of scholarships are available. Request an application at [info@hrccc.org](mailto:info@hrccc.org).*

Find directions here: [http://www.vt.edu/where\\_we\\_are/campus\\_guide/directions.php](http://www.vt.edu/where_we_are/campus_guide/directions.php)



# Virginia Clean Cities, South Centré Corridors Resource Conservation & Development Council and the Virginia Department of Mines, Minerals and Energy presents...



## Farmer and Small Producer Biodiesel Workshop

Thursday, December 7, 2006

7:30 am – 3:00 pm

Eastside Community Enhancement Center, 7301 Boydton Plank Rd,  
Petersburg, Virginia



### Agenda:

7:30 a.m.	Registration/Continental Breakfast	
8:30 a.m.	Welcome	
8:35 a.m.	Overview / RC&D Program Overview	Keith Boyd – South Centre Corridors RC&D
8:45 a.m.	What is Biodiesel/Who Uses it/Market Update	Chad Freckmann – Blue Ridge Clean Fuels Fred Shokes – Virginia Tech Extension
9:10 a.m.	Oilseed Crops & Markets	Harbans Bhardwaj – Virginia State University Dave Starner – Virginia Tech Extension
9:45 a.m.	Canola Budget	Mike Roberts – Virginia Tech Extension
10:05 a.m.	The Cooperative Model of Piedmont Biofuels	Matthew Rudolf – Piedmont Biofuels
10:30 a.m.	Break	
11:45 a.m.	How Biodiesel is Made Safely	Chuck McCarty – James Madison University
11:15 a.m.	How Biodiesel is Made Legally	Chelsea Jenkins – Virginia Clean Cities
11:35 a.m.	Byproducts (glycerol discussion)	Matthew Rudolf – Piedmont Biofuels
11:55 p.m.	Possible Solutions for Glycerol Utilization	Zhiyou Wen – Virginia Tech
12:15 p.m.	Methanol Safety & Availability	Keith Ford, Methanex Cory Mullins, Methanex
12:40 p.m.	Lunch (provided)	
1:25 p.m.	Fuel Quality/Fuel Testing	Al Christopher – Virginia Clean Cities
1:45 p.m.	Waste Vegetable Oil Collection	Jason Johannessen – SVWA Biodiesel Initiative
2:05 p.m.	Facilitated Q&A	
3:00 p.m.	Closing Remarks	Chelsea Jenkins – Virginia Clean Cities

### Biodiesel Workshop REGISTRATION Information:

Visit <http://www.hrccc.org/registrationDec7.html>; Fee: \$10 per person

*Note: Payment instructions are located at the bottom of the registration page. Only cash, check or money orders accepted. Only those registered online prior to December 7<sup>th</sup> will be admitted. If you cannot register online, call (757) 256-8528 for instructions on how to register. A limited number of scholarships are available. Request an application at [info@hrccc.org](mailto:info@hrccc.org).*



Dinwiddie County



South Centré  
Corridors RC&D

