

MEETING NOTES

EAST TENNESSEE CLEAN FUELS COALITION 15th Stakeholders Meeting ~ July 10, 2003

Where: Copper Cellar on Cumberland Avenue in downtown Knoxville

When: 11am to 1:15pm

Lunch: From a menu of four lunch items; sponsored by Ted Russell Ford, a Founding Partner in the ETCFC.

Attending (total of 34 people)

Doug Bishop – City of Sevierville
Buster Brackins – Sevier County Utility District
Teresa Cantrell – Great Smoky Mountains National Park (GSMNP)
Bob Colby – ATTI & Chattanooga/Hamilton County Pollution Control Bureau
David Deputy – AmeriGas Propane
Reed Detring – Big South Fork National Park
Mark Downing – ORNL/National Transportation Research Center (NTRC)
Greg Engleman – Interested Citizen
Bryon Fortner – City of Sevierville
Pete Gale – McNutt Oil Co.
Doug Gordon – Interested Citizen
Barry Greenberg – Knoxville Area Transit (KAT)
Teresa Guy – AmeriGas Propane
Brian Headrick – Knoxville Utilities Board (KUB)
Johnny Hickam – Gatlinburg Trolley
Jerry Hickman – City of Sevierville
Dejim Lowe – TVA
Scott Marine – Fun Time Trolley/City of Pigeon Forge
Glenn Mauldin – Ebus
Jeff McCarter – Sevier County Utility District
Jonathan Overly – Coordinator, ETCFC
Amy Parkhill – Dream Works Printing
Jessica Parkhill – Dream Works Printing
Buddy Parton – Gatlinburg Trolley
Jerry Sanders – ATTI
Tom Shannon – UTK Dept. of Mech., Aerospace and Biomedical Eng. (MABE) Dept.
Brooke Sinclair – Knoxville Utilities Board (KUB)
Ron Sternfels – Plasma Gasification Consultants
Randy Underwood – Sevier County Utility District
Kelly Vaughn – Knox County Division of Air Quality Mgmt.
Parks Wells – Tennessee Soybean Promotion Board
Evelyn Winther – Interested Citizen
Gary Wynn – UT Knoxville
Carla York – Ebus

Other participant information:

A total of 6 new people attending this meeting.

Thus far, a total of **118 different people** have participated in the 15 meetings, representing **62 different companies and organizations**.

Meeting Content

1. Called meeting to order ~11:15am.
2. Briefly described outline for the day and discussed the documents that were provided to the group (see the 14th Meeting Agenda on the Web site - www.etcfc.org under “Documents,” which includes a list of what information was handed out). See agenda for the main information that was discussed that day.
3. Noted the dates and locations for the next 5 months meetings - through the end of 2003 (see the agenda).

Meeting Notes submitted by Jonathan Overly.

Working Committee Notes

AFVs & Infrastructure WC Notes

(received 8/12/03)

Attendees:

Doug Bishop – City of Sevierville
Bob Colby – ATTI & Chattanooga/Hamilton County Pollution Control Bureau
Reed Detring – Big South Fork National Park
Bryon Fortner – City of Sevierville
Pete Gale – McNutt Oil Co.
Barry Greenberg – Knoxville Area Transit (KAT)
Brian Headrick – Knoxville Utilities Board (KUB)
Johnny Hickam – Gatlinburg Trolley
Dejim Lowe – TVA
Glenn Mauldin – Ebus
Jeff McCarter – Sevier County Utility District
Amy Parkhill – Dream Works Printing
Jessica Parkhill – Dream Works Printing
Buddy Parton – Gatlinburg Trolley
Brooke Sinclair – Knoxville Utilities Board (KUB)
Randy Underwood – Sevier County Utility District
Kelly Vaughn – Knox County Air Quality Mgmt.
Carla York – Ebus

1. Biodiesel survey completed and responses are coming in.
2. Phillips fuel station - pitching fuel maker anyone with interest please let Brian Headrick know by responding back to email he will be sending
3. Pilot or other local oil company -- putting together a list of local providers along the corridor (I40, I75 and I24) to put in a CNG fueling station for public access.
1. Pete Gale to send list to Carla of Tennessee Oil Marketers Association and CY to get from Doug Underground Storage Tank List from TDEC.
4. Ford 3.0 liter engine trucks 1999 and later V6 Ranger will run on Ethanol.
2. Anyone interested in more info let Brian know.
5. Sevierville still perusing B20 tank with public access and working toward implementing public transportation using B20 or Hybrids.
6. Pursue private companies to pursue fleets and fuel usage and/or interest in ETCFC participation.
7. Sub Groups to be set up within the group to work on individual fuels.

Meeting notes taken and submitted by Carla York.

Education & Marketing WC Notes

(received 7/11/03)

Attendees:

Tom Shannon – UT Mech., Aerospace and Biomedical Eng. Dept (co-chair)
Buster Brackins – Sevier County Utility District
Teresa Cantrell – GSMNP
Mark Downing – ORNL & Trans Tech Volvo/BMW
Scott Marine – Fun Time Trolley/City of Pigeon Forge
Jonathan Overly – ETCFC
Jerry Sanders – ATTI
Parks Wells – TN Soybean Promotion Board

This committee discussed the following topics:

- ✓ Three new advertising options:
 - 1 year's worth of 1-page ads/articles in the *Hellbender Press*, "East TN's Environmental Journal;" total of 6 inclusions/ads (they publish bimonthly) for a total cost of \$600;
 - 1 year's worth of 1/6 page advertising in the AAA of East TN's version of *Going Places*, the AAA's magazine; total of 6 inclusions/ads (they also publish bimonthly) for a total cost of \$1,080; and
 - 6 month's advertising on two central East TN radio stations (B-97.5 and Oldies - 95.7 and 106.7) where we will get 2-3 daily traffic spots (~14 seconds each) during the five weekdays, split between the two stations as such: M-W-F on Oldies and T-R on B-97.5; cost of ~\$2,500 plus Founding Partner membership in the coalition.
- Group agreed that based on the amount of funding remaining for E+M efforts, until we find out about the CMAQ grant proposal, these look like good options. Jonathan will put in-place in the next week.
- ✓ The need to see what East TN stations we could get on to further expose East TN to our effort. Ideas included Haller Hill's show, plus the WNOX weekend show ("Sound Off?"); Alive at Five; WUOT's news show or "Dialogue;" any of the local morning shows on the local TV stations, etc.
- ✓ Teresa Cantrell brought back the Betcam-SP tape she had taken; the station she was working with needs a VHS version; Jonathan will bring her a VHS version to the next meeting.
- ✓ Has the ETCFC site been submitted to search engines? Jonathan will check on and resubmit to the major search engines (free).
- ✓ In discussing the press release system that is to put in place soon, Tom Shannon suggested that a connection be made to UT and their press release system—we just need to find the right person in UT to make this connection with; Jerry Sanders (ATTI) brought much information newspapers, radio stations, TV stations, and other media outlets that he found through an Internet search (excellent information!)—Jonathan will work to add those news sources to the press release system ASAP.
- ✓ The ETCFC needs to develop a "Speaker's Bureau." The idea will be for Jonathan to keep the Web site updated with the most recent version of the ETCFC presentation, which several people will be able to use to present info to people in their community. We will need to have a session before that for Jonathan to show how he presents the information, and let the future presenters pose questions and play the devils advocate to get comfortable with presenting the information themselves.
- ✓ As an offshoot to the Speaker's Bureau, Jerry noted that if Kiwani's, Rotary, Shriner's, etc. are part of the audience we want to reach, a good way to locate and contact them is through the local Chamber of Commerce.
- ✓ In an effort to make it easier to get to know one another, several folks suggested we start using reusable name tags; Jonathan will see about getting some readied for the next meeting.

Meeting notes taken and submitted by Jonathan Overly.

Hydrogen Economy WC Notes

(received 8/14/03)

Attendees:

David Deputy - Amerigas Propane (Kingsport & Morristown)

Teresa Guy - Amerigas Propane (Knoxville)

Jerry Hickman - City of Sevierville

Dr. Ronald Sternfels - Plasma Gasfication Consultants (Knoxville, Huntsville, Birmingham)

Evelyn Winther - Community volunteer

Gary Wynn - Community volunteer

General ideas for East TN:

In looking at ways to promote hydrogen economy, the group focused on the following aspects -

- ~ delivery (trucking/ pipeline) vs. on-site generation of H₂
- ~ how to promote research/ pilot projects in this area
- ~ introduction of hybrid vehicles as an immediate solution to increase mileage

~ incentive programs for AFV purchase such as parking passes, tax credits (federal & state), etc.

> Distribution & On-Site Generation of Hydrogen

Although the ultimate desired source of hydrogen would be local on-site generation from hydrolysis of water powered by some type of 'green power', our group is looking at the reality of cost and current infrastructure in predicting the best plan for this area. Some of the specifics are as follows:

- ▶ Dr. Sternfels: Portable turnkey filling stations supplied by H2 delivered by trucks will probably precede the piping in of H2. Pipelines in use now in areas such as Alabama & East TX (Gulf Coast). Low pressure is used in pipelines to prevent diffusion and loss of the gas en route. This mirrors the situation of local power generation vs. transmission of power (on-site production doesn't have the drawback of lost power en route).
- ▶ David Deputy: In looking at H2 production from waste streams (companies such as Plasma GC's and Hydrocore), although there is a need for a continuous feed - there would not necessarily be a conflict with local waste reduction projects. The big picture is that there is overall more waste than municipalities can handle. As far as trucking in H2 is concerned, H2 tankers would be considered safer than either gasoline or propane. Gas tankers are not built to handle the increased pressure from a rollover. Although propane tankers are sturdier, once they leak the propane spreads whereas hydrogen would evaporate.
- ▶ Evelyn Winther: There are houses being built now that have a stationary fuel cell unit, powered by hydrolysis of water generated by solar panels on the roof (a zero emissions set up).
- ▶ Dr. S.: Stationary fuel cell units, though expensive, are generally thought to pay for themselves in about 10 years (after which the homeowner is on gravy street !).

> Promotion of Pilot/ Research Projects In This Area

Legislation proposed by Lamar Alexander for the GSMN Park [senate.gov] and the wave of H2 promotion which could be generated in the upcoming presidential election were discussed. GM and Ford have made a serious commitment to fuel cell vehicle production. Toyota and Honda are launching their fuel cell fleets in America. We need to look at ways to generate local interest and investment.

- ▶ David Deputy: In addition to seeking research funds, there is a great opportunity for pilot projects such as housing developers who could set up H2 generated neighborhoods which sell excess power back to the utility company. The utilities are required to buy (at retail price!) excess electricity produced.
- ▶ Gary Wynn: Federal funding of such projects is needed. There are many stakeholders with some opposition to H2 economy who's influence has to be overcome (auto makers, oil exploration companies, etc.).
- ▶ Dr. S.: Sevierville should build a giant parking lot, close the Pigeon Forge corridor and GSMNP to thru traffic and require tourists to rent AFVs !
- ▶ Jerry Hickman: Sevier County did look at bringing in fuel cell buses but there were some technical problems with the elevation changes (> 200 feet).
- ▶ Dr. S.: Now there are some FC vehicles which make automatic adjustments for altitude.

> Hybrid (Electric & Gasoline) Vehicles

These vehicles will make a good stopgap until we can get mass produced zero emission FCVs. Honda is on the front lines with the Prius and Insight. They work by charging batteries with a flywheel which is allowed to spin whenever the engine can be disengaged from the chassis (e.g: going downhill/ braking). Hybrid vehicles are most effective on level ground with smooth driving and handling. Especially for the immediate future, the ETCFC should promote these vehicles which are available to the general public.

>Incentive Programs for Alternative Fuel Vehicle Purchase

As opposed to increasing emissions testing, offering incentives may yield better results.

- ▶ David Deputy: It would be political suicide for officials to pass legislation which impose emissions standards for vehicles other than what was in effect for such vehicles at the time of their manufacture. The good news is that the present administration is implementing the first significant standards for stationary diesel engines.
- ▶ Evelyn Winther: In Washington D.C. residents who purchase AFV's are allowed to drive in the multi-passenger lane. Although we don't have room on our highways to offer such an incentive, maybe there could be something like a free parking voucher program.
- ▶ Dr. S.: Ultimately, the most far reaching solution will be to offer tax incentives - federal credits and/ or TN state tax rebates for those purchasing AFVs.

Meeting Notes taken and submitted by Evelyn Winther.