TRANSPORTATION FUELS ROCK PERFORMANCES

TRANSPORTATION FUELS

GRADE LEVEL
4–12

SUBJECT AREAS
Science
Social Studies
Language Arts
Public Speaking
Music

This activity encourages student creativity and enhances presentation skills while teaching about conventional and alternative transportation fuels.

NEED 2008-2009
Putting Energy into Education
NEED Project PO Box 10101 Manassas, VA 20108 1-800-875-5029 www.NEED.org

Teacher Advisory Board

NEED Mission Statement

The mission of the NEED Project is to promote an energy conscious and educated society by creating effective networks of students, educators, business, government and community leaders to design and deliver objective, multi-sided energy education programs.

Teacher Advisory Board Vision Statement

In support of NEED, the national Teacher Advisory Board (TAB) is dedicated to developing and promoting standards-based energy curriculum and training.

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Correlations to National Science Standards

(Bolded standards are emphasized in the unit.)

INTERMEDIATE (GRADES 5-8) STANDARD F: SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES

3. Natural Hazards

b. Human activities can induce hazards through resource acquisition, urban growth, land-use decisions, and waste disposal.

c. Hazards can present personal and societal challenges because misidentifying the change or incorrectly estimating the rate and scale of change may result in either too little attention and significant human costs or too much cost for unneeded preventive measures.

4. Risks and Benefits

b. Students should understand the risks associated with natural hazards, chemical hazards, biological hazards, social hazards, and personal hazards.

c. Students can use a systematic approach to thinking critically about risks and benefits.

d. Important personal and social decisions are made based on perceptions of benefits and risks.

5. Science and Technology in Society

a. Science influences society through its knowledge and world view. The effect of science on society is neither entirely beneficial nor entirely detrimental.

b. Societal challenges often inspire questions for scientific research, and societal priorities often influence research priorities.

c. Technology influences society through its products and processes. Technological changes are often accompanied by social, political, and economic changes that can be beneficial or detrimental to individuals and to society. Social needs, attitudes, and values influence the direction of technological development.

d. Science and technology have contributed enormously to economic growth and productivity among societies and groups within societies.

e. Science cannot answer all questions and technology cannot solve all human problems or meet all human needs. Students should appreciate what science and technology can reasonably contribute to society and what they cannot do. For example, new technologies often will decrease some risks and increase others.

SECONDARY (GRADES 9-12) STANDARD F: SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES

3. Natural Resources

a. Human populations use resources in the environment to maintain and improve their existence.

b. The earth does not have infinite resources; increasing human consumption places severe stress on the natural processes that renew some resources, and depletes those resources that cannot be renewed.

c. Humans use many natural systems as resources. Natural systems have the capacity to reuse waste but that capacity is limited. Natural systems can change to an extent that exceeds the limits of organisms to adapt naturally or humans to adapt technologically.

4. Environmental Quality

c. Many factors influence environmental quality. Factors that students might investigate include population growth, resource use, population distribution, overconsumption, the capacity of technology to solve problems, poverty, the role of economic, political, and religious views, and different ways humans view the earth.

5. Natural and Human-induced Hazards

b. Human activities can enhance potential for hazards. Acquisition of resources, urban growth, and waste disposal can accelerate rates of natural change.

d. Natural and human-induced hazards present the need for humans to assess potential danger and risk. Many changes in the environment designed by humans bring benefits to society, as well as cause risks. Students should understand the costs and trade-offs of various hazards—ranging from those with minor risk to a few people to major catastrophes with major risk to many people.

6. Science and Technology in Local, National, and Global Challenges

b. Understanding basic concepts and principles of science and technology should precede active debate about the economics, policies, politics, and ethics of various science and technology related challenges. However, understanding science alone will not resolve local, national, and global challenges.

Teacher Guide

BACKGROUND

Transportation Fuels Rock Performances is a cooperative learning activity in which student groups research conventional and alternative fuels, then write and perform their own rock song, along with an introduction and interview. The students also create a persona for their rock group by designing a CD cover and gathering props and costumes. During the performances, the teacher acts as host of the show and reads the interviews that the groups have prepared.

TIME

Three to five class periods. You can decrease the time required by designating assignments as homework, or using the sample songs and interviews included in this booklet.

MATERIALS

- NEED's **Transportation Fuels** materials (or other information on transportation fuels)
- **Student Guide** and **Petroleum Sample**
- Art supplies for CD covers (posters, construction paper, markers, etc.)

PROCEDURE

Step One—Preparation

This activity has been designed for use with NEED's **Transportation Fuels** curriculum. Make enough copies of the fuel factsheets so that each student in the group has one copy, plus one **Student Guide** and the Petroleum sample for each student.

Step Two—Introduce Activity to Class

Introduce the activity to the class—using the petroleum (traditional fuel) as a sample for the students. Assign students to groups. This activity works well with three-four students per group.

Step Three—Monitor Group Work

Once your students have begun their projects, your main tasks will be guiding students and checking their assignments. You will want to make sure students include important facts about their fuel in their songs and interviews.

Step Four—Rock Performances

It's time for the group performances. You will be the host of the show. As host, you must coordinate student performances and interview the groups.

Optional Activity

Sample performances for the fuels are included in this booklet. You can assign one of the samples to each group of students instead of having them write their own.

Student Guide

PREPARE A TRANSPORTATION FUEL ROCK PERFORMANCE

A ② by a set of instructions means there is an assignment that must be checked by your teacher. Here is a checklist of your assignments:

- ☐ List facts about your transportation fuel
- ☐ Write a song
- ☐ Write an introduction
- ☐ Write an interview
- ☐ Design a CD cover

Step One—Learn About Your Fuel

② Working as a group, read your factsheet and underline the important facts in each section. Try to find 10 facts and write them down. Use the Petroleum Sample as a guide in completing your assignment.

Step Two—What's in a Name?

② Select a name for your rock group, using the information you have learned. Be clever, creative, and original!

Step Three—Pick that Tune!

Think about songs you can use as a guide. You don't have to use a rock song; you can use a rap song, folk tune, nursery rhyme, or theme from a television show or commercial. Take the first lines from a few songs and try to make up lyrics of your own. Pick the tune that is the easiest to use.

Step Four—Write That Tune!

② Using your list of facts, write your group's song. Your song must tell at least five facts about your fuel.

Step Five—Write the Introduction

② Write a three sentence introduction that the host will read to the audience before your grand entrance. Your introduction should present several important facts about your fuel, as well as the name of your song and CD.

Step Six—Write a Four-Question/Answer Interview

② Working as a group, write four questions and answers for the interview. Keep in mind that both the questions and answers should say something about your fuel.

Step Seven—Design a CD Cover

② Using the name of your group and your hit single, brainstorm cover designs. Assign one member of your group to bring the sketch to life. Use a poster for your final CD cover.

Step Eight—Props, Costumes, and Scenery

Create a look for your group. Props, costumes, and simple scenery will help get your point across to your audience. For example, members of an ethanol group could wear corny costumes. Brainstorm ideas for props and costumes. Once you've settled on a plan, assign various jobs to group members.

Step Nine—Rehearse Again and Again and...

Rehearse your performance as many times as possible. Things to consider:

- ➤ Is the group loud enough so everyone can hear and understand the song?
- ➤ Are the costumes and props appropriate? Do they make sense?
- ➤ Are you enthusiastic in your delivery?
- ➤ Can you add dance steps or arm movements?
- ➤ Does everyone know his or her part? Do not read the lyrics during your performance!

The Final Step—Your Performance

The big day is here! Your group's performance is next. When it's your turn to perform, the host will introduce you using the introduction that your group wrote. You should display your CD cover, name your hit song, and perform your song. After your performance, the host will ask you the interview questions that your group wrote. Have a great time!

PETROLEUM FUELS

ROCK PERFORMANCE SAMPLE

INTRODUCTION

(The scene is a band stage. The host of the show addresses the audience.)

Franny Fuel: One of the oldest and most experienced bands with us tonight is Puddle of Oil—a band that tours so much, they cover 2.6 trillion miles every year in the U.S.A. alone. (Their buses add another 700,000 miles, and their sponsor's trucks another 7,000,000!) Give it up for Puddle of Oil singing their hit song "Pump Me Up" from their first CD, "Millions of Years Ago."

(Puddle of Oil perform their song to the tune of "I'm a Little Tea Pot.")

ORIGINAL	PARODY
I'm a little teapot,	**I'm called diesel,**
short and stout.	**oil, or gas.**
Here is my handle,	**Ninety-eight percent**
here is my spot.	**use me to go fast.**
When I get all steamed-up,	**Two-thirds is imported—**
hear me shout!	**that can't last.**
Just tip me over	**My emissions were**
and pour me out.	**more in the past.**

INTERVIEW

Franny Fuel: It seems like you guys have been together forever! How long has it been?

B-Gold: I think the idea for the band formed millions of years ago, but we have only been playing and getting people moving for a little over a hundred years.

Franny Fuel: What's kept you going all these years?

Fewel: Oh, definitely the fans. It seems like everyone listens to us. I mean, we sell almost 21 million copies of our CD "Barrels" every single day in the U.S. Can you think of any other band that can do that?

Franny Fuel: You're a big hit with the fans, but the critics have been hard on you the last few years.

Mr. Well: In the early days, we were a little out of control and released some things we shouldn't have. Now we've cleaned up our act. Since the 1960s alone, the bad stuff has been reduced by at least 95%.

Franny Fuel: Think you're going to be around forever?

Trans: As we get older, we realize how important it is to share the stage with other artists like The Combos, Compressed, and Fuel Cells. They're doing some great stuff.

Franny Fuel: Let's hear it for the number one band in the entire world!

ETHANOL

ROCK PERFORMANCE SAMPLE

INTRODUCTION

(The scene is a band stage. The host of the show addresses the audience.)

Franny Fuel: Our next band is a group of country kids who have made it big in the city—where they are needed most. They have a big following in the U.S., but even more fans in Brazil. Producing over four billion songs each year, please welcome FFV with their song "I Heard it Through the Cornfield" from their CD, "Mix It Up."

(FFV performs their song to the tune of "Hit Me Baby (One More Time).")

ORIGINAL

Oh baby, baby,
how was I supposed to know
that something wasn't right here?
Oh baby, baby,
I shouldn't have let you go,
and now you're out of sight.
Show me, what you want it to be.
Tell me baby, 'cause I need to know now,
Yes because,

My loneliness is killing me
(And I)
I must confess, I still believe
(Still believe)
If I'm not with you,
I lose my mind.
Give me a sign.
Hit me baby one more time.

PARODY

Oh baby, baby,
how was I to fuel your car
and use less gasoline, yeah?
Oh baby, baby,
I bet corn would get us far—
or maybe rice or wheat.
Give me all your grass and clippings.
Help me baby, to ferment the sugar:
Ethanol!

The price of gas is killing me.
(And I)
I use biomass—fuel from a tree.
(From a tree)
The two together
will make E10.
Breathe easy then,
'cause it contains oxygen.

INTERVIEW

Franny Fuel: Great job! This is the first time I've seen you guys play on your own.

Husk: Yeah, most of the time we play with the former members of Gasoline. We play a lot of their tunes and find we can put on our biggest concerts when we play together. Sometimes 10 percent of the concerts will be our songs . . .

Stock: Our fans call those concerts E10 nights.

Husk: Sometimes the concerts will be 85 percent our material. Those are E85 nights. But we usually save those for when we play the Midwest or the South.

Franny Fuel: Cool. Where does your name—FFV—stand for?

Missy Stations: FFV stands for Flexible Fool Vanguard. We decided we want to be a positive group that works with other bands and plays in venues with lots of different mixes—we want to be flexible.

Franny Fuel: The positivity you talked about: that seems to be present throughout your work.

Fee-D: Yeah. Our positive songs reduce the negativity out there, and the recording process is positive too. Our band has a way of taking the negativity in the air and turning it into positivity—letting everyone breathe easier.

BIODIESEL

ROCK PERFORMANCE SAMPLE

INTRODUCTION

(The scene is a band stage. The host of the show addresses the audience.)

Franny Fuel: Our next slick group is the fastest growing band in the United States. "Fat of the Land" is their new CD, and they're here with us today to debut the song "On and On." Let's give a warm welcome to The B20s.

(The B20s performs its song to the tune of "The Song That Never Ends.")

ORIGINAL	PARODY
This is the song that never ends.	**This is a fuel that smells so clean.**
It just goes on and on, my friend.	**It's made from oil of soybean.**
Some people started singing it,	**We grow it in the USA**
not knowing what it was,	**To fuel big truck and bus.**
and they'll continue singing it	**Biodiesel isn't dirty so**
forever, just because....	**we like it, just because....**

INTERVIEW

Franny Fuel: Boy, you guys are neat!

Slippy: And if by neat, you mean 100% pure and independent, that's right!

Franny Fuel: Wait, I thought you worked with the record company Diesel and their producers and mixers.

V-Oil: That's true too. Sometimes we work with Diesel, but we can be totally independent without any help from anyone and still achieve the same success.

Franny Fuel: Being an independent band, it must be hard to get your name out there.

Bessy: That's true. At the moment, there are only a few stations that play our music. We're a big hit with schools, though. They buy our CDs in bulk and play them on their buses. They like our clean lyrics.

Franny Fuel: Are you planning to tour anytime soon?

B-Funk: Yup. We like to tour in the summer, but as long as we take care of ourselves, we'll be touring in the winter too.

Franny Fuel: Let's hear it for B20!

PROPANE

ROCK PERFORMANCE SAMPLE

INTRODUCTION

(The scene is a band stage. The host of the show addresses the audience.)

Franny Fuel: Next is a band that has been in the business for about 75 years. Give a big round of applause for the hit band, Fleetcar Mac with its song "Pressure" from its new CD, "Moving the School Bus."

(Fleetcar Mac performs its song to the tune of the "Gilligan's Island" theme.)

ORIGINAL

Just sit right back, and you'll hear a tale,
a tale of a fateful trip.
That started from this tropic port,
aboard this tiny ship.
The weather started getting rough,
the tiny ship was tossed.
If not for the courage of the fearless crew,
the Minnow would be lost.
(The Minnow would be lost.)
The ship took ground on the shore
of this uncharted isle,
with Gilligan, the Skipper too,
the Millionaire, and his Wife,
the Movie Star,
the Professor and Mary Ann,
here on Gilligan's Isle!

PARODY

Just sit right back, and you'll hear a tale
a tale of a portable fuel.
It's normal state is as a gas,
but then it's pushed and cooled.
It's used in fleets and taxicabs
and down the country lane.
It's cheaper than gasoline.
Oh, it's called propane.
(It's called propane.)
This fossil fuel does not smell
or have a cool color.
It's clean burning, safe for your car.
Your engine's clean, so is the air.
Modify your car;
propane's so cool and affordable.
Fuel your fleet right now!

INTERVIEW

Franny Fuel: Push your hands together for Fleetcar Mac!

Tank: Thanks Franny.

Franny Fuel: Is it true that you guys used to perform with a full orchestra?

P-Pump: Yeah, we used to perform with the Power Philharmonic—which had 270 members. Things got a little hot, so we decided to cool things off.

Tank: With the pressure from our label, we went from 270 members to one small band. It's a lot easier to practice now that we take up less space!

Franny Fuel: I bet! Where did your band's name come from?

Beebee Que: Well, before we were in the band, we used to drive taxicabs, school buses, and government vehicles. We have a lot of fans in those areas, so naming our band after fleet vehicles was a great way to give back.

Franny Fuel: Any big plans for the future?

Flame: We want to get our name out there more. About 3,00 stations have our music—compared to bands like Gasoline that have about 170,000 stations playing their stuff. We want our number to grow.

Franny Fuel: Thanks guys!

ELECTRICITY

ROCK PERFORMANCE SAMPLE

INTRODUCTION

(The scene is a band stage. The host of the show addresses the audience.)

Franny Fuel: The members of our next group have some of the most electric personalities in the business. They only tour for short amounts of time, so we're lucky to have them with us today. With members from California and Arkansas, here are The Plugs with "It's Electric" from their CD, "Socket."

(The Plugs perform their song to the tune of Camp Grenada.)

ORIGINAL

Hello muddah, hello faddah
Here I am at Camp Grenada.
Camp is very entertaining,
And they say we'll have some fun if it stops raining.

Dearest faddah, darling muddah,
How's my precious little bruddah?
Let me come home, if you miss me;
I would even let Aunt Bertha hug and kiss me.

Wait a minute, it's stopped hailing.
Guys are swimming, guys are sailing.
Playing baseball, gee that's better.
Muddah, faddah kindly disregard this letter.

PARODY

Find an outlet, then you're pluggin.
Electric vehicles need a huggin.
Only ten thousand in the U.S.,
And those are mostly in the South and in the West.

Oh, EVs don't go very far.
Don't plan long trips in your car.
Only fifty miles or one-thirty
Before your car stops driving and gets dirty.

The best part is: no emissions.
The car charges while you do dishes.
Fuel costs the same as gasoline.
Electric cars are great for driving at low speeds.

INTERVIEW

Franny Fuel: Wow! Those lyrics were shocking!

Zap: Yeah. But that's why people like us. We're totally different than other bands.

Franny Fuel: You guys have had a tough career. Tell us about it.

Evie: Well, we got together in 1891 in Des Moines, Iowa. Back then, there were two electronic bands for every oily rock band. Today, there are only a few electronic bands out there.

Franny Fuel: Why's that?

Charger: Our equipment is different from other bands. Our battery doesn't last too long, so our concerts are shorter than other bands.

Franny Fuel: Why should people tune into your music?

Ranger: We're a local band. Our range is limited, but you can dance to us for hours without having trouble breathing.

Franny Fuel: And we all like that.

HYBRID ELECTRIC

ROCK PERFORMANCE SAMPLE

INTRODUCTION

(The scene is a band stage. The host of the show addresses the audience.)

Franny Fuel: The Combos are a new band with fans all over the country. Wherever they go, energy is always being created. Off of their CD, "Acceleration," here's the song, "Let's Get Together."

(The Combos perform their song to the tune of the "Brady Bunch" theme.)

ORIGINAL

Here's the story of a lovely lady,
Who was bringing up three very lovely girls.
All of them had hair of gold, like their mother,
the youngest one in curls.

Here's the story, of a man named Brady,
Who was busy with three boys of his own.
They were four men, living all together,
Yet they were all alone.

Till the one day when the lady met this fellow,
And they knew that it was much more than a hunch.
That this group would somehow form a family.
That's the way we all became the Brady Bunch.

PARODY

Here's the story, of a car called hybrid
That runs on gasoline and a battery.
You can buy a hybrid car, they're being made,
And they can be noise free.

For short journeys, the motor's electric,
and gas for longer trips and higher speeds.
Oh HEVs can go much further
Than cars with gasoline.

Go buy yourself a Prius or an Insight.
Cut air pollutants by one-half for the kids.
Oh, these cars are getting better every day.
Your first car will probably be a hybrid!

INTERVIEW

Franny Fuel: I can understand why you guys are so popular!

Cary: Yeah, a lot of other labels have signed bands that sound like us and are releasing albums in the next few years.

Franny Fuel: There seems to be two strong, but different, influences in your songs.

T. Oyota: Yeah, we definitely have electronic and honky-tonk-gasoline influences. We've found that the electronic works well during short, slow parts and the honky-tonk-gasoline during the longer, faster parts.

Civi C.: Yeah, and the two work together really well. The faster parts recharge the electronic parts—allowing us to have them throughout the whole CD without turning off listeners.

Franny Fuel: What's in the future for The Combos?

Engine: Well, we're taking a short break, but that will just give us more energy for our next CD. In the next ten years, I think we're going to be big. Real big.

Franny Fuel: Thanks!

CNG–COMPRESSED NATURAL GAS

ROCK PERFORMANCE SAMPLE

INTRODUCTION

(The scene is a band stage. The host of the show addresses the audience.)

Franny Fuel: I'd like to introduce you to a band that is hot! They are on fire and burning up the charts. Off of their CD, "Burn, Baby, Burn," they will be performing the song ,"I'm down with CNG." Ladies and gentlemen, CMPRSSD!

(CMPRSSD performs its song to the tune of "On Top of Old Smoky.")

ORIGINAL

On top of Old Smoky
All covered with snow
I lost my true lover
From a-courtin' so slow.

Now courtin's a pleasure
And parting is grief
But a false-hearted lover
Is worse than a thief.

For a thief will just rob you
And take all you have
But a false-hearted lover
Will lead you to the grave.

PARODY

Oh, I know a fuel source
That is clean burning
There are fewer emissions
than with gasoline.

An inexpensive source
That you cannot pass
Some call it CNG—
compressed natural gas.

So find a company
To help you drive far
Or pay two thousand dollars
To modify your car.

INTERVIEW

Franny Fuel: That was hot!

Missy G: That's what we've been told. In fact, we make our CD cases stronger than any other band, so no one gets burned.

Franny Fuel: Always thinking of the fans. Speaking of which—your fan base is spreading quickly.

Fossil: Yeah, once our music is out there, it spreads everywhere instead of sitting in a puddle of local fans.

Franny Fuel: Have you guys played any interesting gigs lately?

Cleaner: Yeah, we just played a marathon. We performed on a truck in front of all the runners. They loved us!

Franny Fuel: Where can people pick up your new CD?

NG: There are about 770 places where you can buy our stuff—unless you want to go to one of those bulk suppliers!

Franny Fuel: Thanks guys!

METHANOL

ROCK PERFORMANCE SAMPLE

INTRODUCTION

(The scene is a band stage. The host of the show addresses the audience.)

Franny Fuel: The High Octanes are from California—but they have a big following in Indiana as well. Their new CD is called "Faster, Faster," and they are with us to perform their new song, "Go Speed Racer."

(The High Octanes perform their song to the tune of "Mary Had a Little Lamb.")

ORIGINAL

Mary had a little lamb,
Little lamb, little lamb.
Mary had a little lamb
Its fleece was white as snow.

Everywhere that Mary went,
Mary went, Mary went.
Everywhere that Mary went
The lamb was sure to go.

It followed her to school one day,
School one day, school one day.
It followed her to school one day,
Which was against the rules.

PARODY

There's a fuel called methanol,
Methanol, methanol.
Oh, it's a wood alcohol
With no odor or color.

It makes cars go very fast,
Very fast, very fast.
Most comes from natural gas
And is hard to transport.

You might buy M85,
M85, M85.
Fill your tank and then go drive,
It's nonrenewable.

INTERVIEW

Franny Fuel: A big round of applause for The High Octanes!

Pure Meth: Thanks Franny. It's great to play for an audience that is half government employees and half every-day fans.

Franny Fuel: Do you guys always tour solo?

Low Mi: No, usually we tour with Ammonia or Gasoline. We share a lot of equipment and influences with Ammonia and Gasoline will often play a few songs with us.

Franny Fuel: You guys are known for being rowdy "rock stars."

Fuel: We're not perfect. We cut back on a few things, but then other things happen. What can you do? We live life in the fast lane.

Franny Fuel: What are you plans for the future?

Mr. Fast: We're heading out to Indiana to play before the Indianapolis 500—they're big fans of ours out there.

Franny Fuel: Thanks for that awesome performance!

HYDROGEN

ROCK PERFORMANCE SAMPLE

INTRODUCTION

(The scene is a band stage. The host of the show addresses the audience.)

Franny Fuel: One of the President's favorite bands, I'd like to introduce the up-and-coming band, Fuel Cells. They will be playing their song, "I Like Big Tanks."

(Fuel Cells perform their song to the tune of "Little Bunny Foo-Foo.")

ORIGINAL

Little Bunny Foo-Foo,
Hopping through the forest
Scooping up the field mice,
And bopping them on the head.

(Spoken)
Then down came the Good Fairy,
And she said:

Little Bunny Foo-Foo,
I don't want to see you
Scooping up the field mice,
And bopping them on the head.

(Spoken)
I'll turn you into a Goon!

PARODY

We might use hydrogen
Some time in the future
It's a common element,
But not as a gas on Earth.

(Spoken)
Then down came the President,
And he said:

Boy do I like hydrogen
When combined with oxygen
Oh the fuel is so clean
And quite abundant.

(Spoken)
The only emission is water!

INTERVIEW

Franny Fuel: Do you guys have a record deal yet?

H_2O: Nope. We are playing all over the place. We are everywhere, but no record label has figured out quite how to use us yet.

Franny Fuel: You guys are involved with NASA, right?

Star: Yeah—we have played on space shuttles for years. No shuttle goes up without us. In fact, that's where we play the most these days.

Franny Fuel: Your tour bus is huge!

H-Dro: It is six times larger than normal buses, but we need it that big to get around like other bands.

Franny Fuel: Are you guys going into the studio soon?

Celly: We're always in the studio trying to make better songs, but we're not quite ready for everyone to hear them yet. The first CD is going to be called "Periodic H"—so much hydrogen and love goes into our music, and the end result is a sound that soaks your ears.

Franny Fuel: Good luck guys!

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Maine Energy Education Project
Maine Public Service Company
Marianas Islands Energy Office
Maryland Energy Administration
Massachusetts Division of Energy
Resources
Michigan Energy Office
Michigan Oil and Gas Producers Education
Foundation
Minerals Management Service–
U.S. Department of the Interior
Mississippi Development Authority–Energy
Division
Montana Energy Education Council
Narragansett Electric–
A National Grid Company
NASA Educator Resource Center–WV
National Alternative Fuels Training Center–
West Virginia University
National Association of State Energy
Officials
National Association of State Universities
and Land Grant Colleges
National Hydropower Association
National Ocean Industries Association
National Renewable Energy Laboratory
New Jersey Department of Environmental
Protection
New York Power Authority
North Carolina Department of
Administration–State Energy Office
Nebraska Public Power District
New Mexico Oil Corporation
New Mexico Landman's Association
New York State Energy Research and
Development Authority
Offshore Energy Center/Ocean Star/
OEC Society
Offshore Technology Conference
Ohio Energy Project
Pacific Gas and Electric Company
Petroleum Equipment Suppliers
Association
Poudre School District–CO
Puerto Rico Energy Affairs Administration
Puget Sound Energy
Roswell Desk and Derrick Club
Roswell Geological Society
Rhode Island State Energy Office
Sacramento Municipal Utility District
Saudi Aramco
Schlumberger
Sentech, Inc.
Shell Exploration and Production
Snohomish County Public Utility District–
WA
Society of Petroleum Engineers
David Sorenson
Southwest Gas
Spring Branch Independent School
District–TX
Tennessee Department of Economic and
Community Development–Energy Division
Toyota
TransOptions, Inc.
TXU Energy
University of Nevada–Las Vegas, NV
United Illuminating Company
U.S. Environmental Protection Agency
U.S. Department of Energy
U.S. Department of Energy–Hydrogen,
Fuel Cells and Infrastructure Technologies
Virgin Islands Energy Office
Virginia Department of Mines, Minerals
and Energy
Virginia Department of Education
Virginia General Assembly
Wake County Public Schools–NC
Western Kentucky Science Alliance
W. Plack Carr Company
Yates Petroleum