

# Diesel Versus Gasoline

BY TOM AND RAY MAGLIOZZI  
www.cartalk.com



## CAR TALK

Tom and Ray Magliozzi

**Dear Tom and Ray:**  
What is the difference between diesel and regular gasoline? My boyfriend thinks that diesel is mixed with oil, and he can't explain what is in regular gasoline that makes it different from diesel. Please explain. — Corie

**TOM:** The main difference is that in diesel fuel, you can still see the dinosaur bones floating around.

**RAY:** Actually, gasoline and diesel fuel both are products that are made from crude oil. When a barrel of crude oil comes into the refinery, it's distilled into its heavier and lighter components.

**TOM:** The lighter stuff is used to make gasoline. The next-heaviest stuff becomes jet fuel. After that on the scale comes diesel. And below that is the stuff they use to fuel ships, run power plants and nourish my brother's hair plugs.

**RAY:** So, gasoline is lighter, less dense, more flammable and more volatile. When you

spray gasoline into a cylinder, it starts to vaporize immediately, so that as soon as the spark plug fires, the gasoline detonates and powers the engine.

**TOM:** Diesel fuel is heavier, denser, less flammable and less volatile. So in order to

detonate it, it has to be compressed in a cylinder to a very high pressure and temperature, at which point it detonates without a spark.

**RAY:** The upside of diesel fuel is that, because it's denser (like my brother), it has more energy per gallon. That's one reason why diesel-powered vehicles get more miles per gallon.

**TOM:** The downside is that diesel fuel requires a very-high-compression engine, which is more expensive to build. And because it relies on temperature to detonate, diesel engines traditionally have more trouble starting in cold temperatures.

**RAY:** That combination is why northern Minnesotans like diesels so much. They can't start them on winter mornings, but because the gas mileage is so great, they can leave them running the night before.

Get more Click and Clack in their new book, "Ask Click and Clack: Answers from Car Talk." Got a question about cars? Write to Click and Clack in care of this newspaper, or email them by visiting the Car Talk website at www.cartalk.com.

## LIFE IN POETRY

# Making Our Children's Lives Better With Music

BY TED KOOSER

U.S. POET LAUREATE, 2004-2006

We all hope our children's lives will be better than our own, and invest in that hope in a variety of ways. Here Michael Ryan of California compares what we can provide for them with what we can't.

### GIRLS' MIDDLE SCHOOL ORCHESTRA

They're all dressed up in carmine floor-length velvet gowns, their upswirled hair festooned with matching ribbons: their fresh hopes and our fond hopes for them infuse this sort-of-music as if happiness could actually be each-plays-her-part-and-all-will-take-care-of-itself. Their hearts unscarred under quartz lights beam through the darkness in which we sit to show us why we endured at home the squeaking and squawking and botched notes that now in concert are almost beautiful, almost rendering this heartrending music composed for an archduke who loved it so much he spent his fortune for the musicians who could bring it brilliantly to life.

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## SOCIAL SECURITY

# If It's Not .Gov, It's Not Social Security

BY JENNIFER H.

Social Security Claims Representative

When you go on a road trip, you need to follow the signs to arrive at the right place. Going online can be very much the same. Look for the ".gov" at the end of the web address — if it isn't .gov, it isn't the real Social Security website — www.socialsecurity.gov.

Countless consumers nationwide are victimized each year by misleading advertisers who use "Social Security" or "Medicare" to entice the public to use their services. In many cases, these companies offer Social Security services for a fee, even though the same services are available directly from Social Security, free of charge. These services include:

- updating a Social Security card to show a bride's married name;
- replacing a Social Security card; and
- getting a Social Security number for a child.

These for-profit businesses may cleverly design their websites, so when people use Internet search engines, their advertisement pops up. They may even make their advertisement look similar to the real Social Security website. And some of these sites, at first glance, appear to be affiliated with Social Security. But upon closer examination, these are for-profit companies charging individuals for a service that is provided free by Social Security.

For instance, a quick Google search on "replacing a Social Security card" brings up paid advertisements for websites that charge a fee just to get an

application for a new card. That service is absolutely free from Social Security.

The law that deals specifically with misleading Social Security and Medicare advertising prohibits people or non-government organizations, like for-profit businesses, from using words or emblems that mislead others. Their advertising cannot lead people to believe that they represent or are somehow affiliated with or endorsed or approved by Social Security or the Centers for Medicare & Medicaid Services (Medicare). But that doesn't stop advertisers from trying.

For more information, you can read our publication *What You Need to Know about Misleading Advertising* at www.socialsecurity.gov/pubs/10005.htm.

When you go to www.socialsecurity.gov, make sure you look for the ".gov" sign along the way. Don't be tricked into paying a fee for a service that's free. And remember: if it isn't .gov, it isn't Social Security.

### QUESTION:

Are Social Security numbers reassigned after a person dies?

### ANSWER:

No. We do not reassign Social Security numbers. In all, we have assigned more than 460 million Social Security numbers, and each year we assign about 5.5 million new numbers. The current system has enough new numbers for several more generations. For more information, visit our website at www.socialsecurity.gov or call us toll-free at 1-800-772-1213 (TTY 1-800-325-0778).

## USD Professor Organizes Solar Energy Symposium

VERMILLION — Ranjit Koodali, Ph.D., associate professor of chemistry at the University of South Dakota, co-organized a symposium on "Emerging Energy and Fuel Technologies: Solar Hydrogen Production" at the fall national meeting of the American Chemical Society (ACS) at Denver recently.

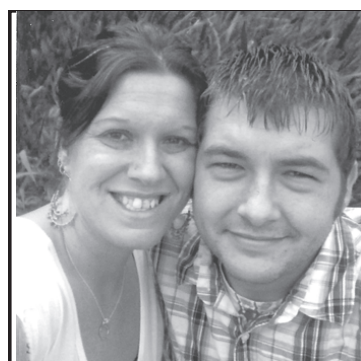
Koodali was tasked by the Division of Fuel Chemistry to co-organize the symposium along with Ravi Subramanian, Ph.D., assistant professor of chemical engineering at the University of Nevada, Reno.

According to Koodali, the 242nd ACS meeting, "Chemistry of Air, Space and Water," related to hydrogen production from photosplitting of water as well as provided a venue for the dissemination of cutting edge research in new and emerging technologies in solar

energy conversion for hydrogen production.

The symposium, which was spread across three different sessions from Aug. 28-Sept. 1, in-

cluded 24 presentations from prominent research scientists in the academia and national laboratories who presented their latest research.



Nelson-Goss

Lisa Nelson and Chris Goss announce their engagement and upcoming wedding.

Parents of the couple are the late Joyce Tronvold and Delbert Hohn of Mitchell, SD, and Glynn and Marilyn Goss of Iuka, MS.

Lisa graduated from Yankton High School with her GED. She is currently employed at Vishay.

Chris graduated from Tishomingo County High School in Iuka, MS, with his GED. He is currently employed at Gehl's.

The couple is planning an Oct. 8, 2011, wedding.

## HSC Earns A.C.D.P Accreditation

PIERRE — The South Dakota Human Services Center (HSC), in Yankton, has received a three-year accreditation by the Commission on the Accreditation of Rehabilitation Facilities (CARF) International for its Adolescent Chemical Dependency Program.

"This is a high level of accreditation received by HSC and an accomplishment our staff take a lot of pride in achieving," said Pam VanMeeteren, CNP, Interim Administrator of HSC. "With consistent policies and practices demonstrated throughout the facility, we continue to provide high level, quality services to ensure all patients receive excellent treatment and services."

This is the first accreditation that the international accrediting body, CARF, has awarded to HSC. This represents the highest level of accreditation that can be awarded to an organization and shows the facility's substantial conformance to the CARF



Mabee

tools for machine reasoning over large volumes of phenotype data.

Ontologies are structured, controlled vocabularies that can be applied to collections of descriptive data to

permit logical reasoning to be used. Human-readable descriptions of anatomy and behavior have not previously been well-suited to computational analysis. Yet, in evolutionary biology, genetics and development, computational assistance is necessary to discover patterns within the enormous volumes of descriptive phenotype data that are being reported in databases.

Mabee's research will use the evolutionary transition from fins to limbs as a test system, and her project will develop ontologically-aware software that allows users to discover similar sets of phenotypes for different taxa or

mutant genes within large and diverse datasets. The research discoveries will be especially interesting and useful to evolutionary biologists and geneticists as they will be able to understand what genes are responsible for evolutionary changes, for example posture changes from primates to humans, very quickly.

Mabee's current research project builds from a previous project that was funded by a four-year grant from the National Science Foundation. Her work is additionally supported by a NSF Research Coordination Network grant that was awarded in October 2010 (\$500,000 over five years). Mabee is the lead in creating an international consortium of researchers to find ways to utilize computers to reason across phenotypic data. Until this research, no standards were available to create common ways to represent this type of data for computers. Today, more than 300 researchers from more than 15 countries have joined the con-

sortium with workshops engaging top level companies such as Google that may be interested in this computational process of data sharing.

"The current research projects are expected to yield information that will be of immediate and enduring value to the greater biology community," said Mabee.

"Tools for streamlining data curation and performing large-scale semantic similarity searches, high quality vertebrate taxonomy and anatomy ontologies, and standards for reasoning over homology are the overall goals of this project."

"Dr. Mabee is an exceptional research scientist, and an outstanding leader of the collaborative science that is the future of innovation," said Dr. Laura Jenks, Vice President for Research at USD. "This computational biological research has the potential to revolutionize the way researchers share evolutionary and genetic data, allowing research to build quickly from previous discoveries."



Williams-Wallenstein

Jim and Lori Williams of Mission Hill, SD, are pleased to announce the engagement and upcoming marriage of their daughter, Britteny Williams, to Leigh Wallenstein, son of David and the late Sally Wallenstein of Siseston, SD.

The couple is planning an Oct. 1, 2011, wedding at the West Prairie Lutheran Church in Lennox, and reception at the Holiday Inn in Brandon, SD.

The bride is a 2003 graduate from Yankton High School and 2008 graduate from Mount Marty College with a BSN and Art minor. The groom is a 2000 graduate from Sisseton High School and 2004 graduate from USD with a Bachelor of Science in Recreation.

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