

Enjoy the Alpujarras

Las Chimeneas offers great rooms
Lovely walks and new restaurant
alpujarra-tours.com

50 Hotels in Granada

Book your hotel in Granada online.
Find your hotel on a city map!
www.Booking.com/Granada

ICPM 2009

Register now! The 1st International
Course on Pain Medicine
www.icpm.net

Home

Science Partners

TV Station Partners

Contact Us

DISCOVERIES & BREAKTHROUGHS

INSIDE SCIENCE

Engineering

- Astronomy
- Biology
- Chemistry
- Computer Science
- Earth Science
- Engineering
- Math
- Microbiology
- Neuroscience
- Optics
- Physics

Español

Questions about your health?

Get the latest news on medicine

FREE, click here >>

Smarter, Safer Cars

Reported January 2010

GRANADA, Spain (Ivanhoe Newswire) -- There are more than six million car accidents every year, and researchers say more than 40 percent of them happen at night. Engineers are trying to change those numbers by building cars that adapt to your driving habits, and warn you when there's trouble ahead.



It happens every 14 seconds...

"A car was coming up really fast behind me and there was nowhere I could go," Paula Winchel recalled to Ivanhoe.

Another driver smashed into the back of her car.

"I have a lot of intense pain at times, where I get headaches," Winchel said. "I have stiffness. There were times when I woke up every single morning with a headache."

A tractor-trailer barreled into the Johnson's car head on.

"I saw the 18 wheeler coming, but I didn't know it was going to happen and just a few seconds it hit," Austin Johnson said.

"This here is the driver's seat," Melanie Johnson said of a photo of the crash. "I was sitting there and as you can see the front end of the car is all pushed in."

Researchers are trying to cut down on crashes by building a more intelligent car.

Engineers at the University of Granada created a system called Drivsko. The program tracks your driving habits, studies them, and then alerts you.

"Helping us and warning us as a copilot would do as a good friend would do," Eduardo Ros Vidal, a professor at the University of Granada in Granada, Spain, explained.

If you're taking a curve faster than normal, or there's a hazard up ahead on an unfamiliar road, it sounds an alarm.

"They adapt to your way of driving and only warn you if they detect changes in your behavior," Vidal said.

The brains of the operation is a microchip in the engine that is connected to two infrared cameras outside the car. At night this system can also spot bends in the road, and pedestrians, far out of the headlight's reach.

"When they're coming up fast behind me, I definitely get nervous," Winchel said.

Smarter cars are helping to make all of us safer in the driver's seat.

Professor Vidal says he doesn't want to develop a system that drives for you ... only one that reacts to your driving habits. Engineers across Europe are working on the technology that they hope to offer to car manufacturers in the next five years.

The Institute of Electrical and Electronics Engineers, Inc.-USA, contributed to the information contained in the TV portion of this report.

[Click here](#) to Go *Inside This Science* or contact:

This Month's TV Reports

Smarter, Safer Cars

There are six million car accidents each year, but researchers are trying to change that by building a car that adapts to your driving habits.

Future of Living Solar

They are high-tech and solar powered! Solar homes are not what they used to be. We'll show you the latest and greatest designs.

Life on Mars

Two new discoveries on the Red Planet have scientists asking ... is there life on Mars? What does lightening and water have to do with the answer?

Detecting Toxins in the Sea

A tea bag could save thousands of sea life from death and save you from getting sick. We'll show you how.

Medical First! Windpipe Transplant

Meet the first person in the world to have a windpipe transplant. Her own stem cells saved her life

Targeting Breast Cancer

Breast cancer is the second most common cancer among women. Now a new cancer therapy is targeting tumors with fewer side effects.

Giving Parkinson's Patients a Voice

Parkinson's disease affects 1.5 million people in the United States. Ninety percent of those people have a hard time talking. A new technology is helping them speak up and be heard.

Diagnosing Heart Attacks before they Strike

It's a new high tech medical device that can diagnose a heart attack before you, or even the doctor, knows its happening.

First New Treatment for Lupus in 50 Years

No more pain ... less fatigue! A new drug for Lupus could be the best treatment for the disease in nearly 50 years.

Tracking the Flu

When the flu hits, your next move could impact millions! A new research tool can predict how fast and how far the virus will spread.

Cleaning up Hospitals

Two million hospital-acquired infections happen each year. The number of infections could be cut in half with better hand washing by medical staff. We'll show you a new device that makes sure everyone has germ-free hands.

| | | | |
|---|--|---|---|
| <p>Prof. Eduardo Ros Departamento de Arquitectura y Tecnología de Computadores E.T.S.I. Informática Universidad de Granada, Spain +34 958 240461 (Science School) eduardo@atc.ugr.es</p> <p>Institute of Electrical and Electronics Engineers, Inc. IEEE Pender McCarter IEEE http://www.ieee.org IEEE-USA http://www.ieeeusa.org p.mccarter@ieee.org</p> | <p><u>Testing Chili Peppers</u> How hot is too hot? Wouldn't it be nice if you knew before biting into your next pepper? Science may hold the answer to saving you from a burning mouth.</p> <p><u>Prior Reports</u></p> | | |
| <p>A joint production of Ivanhoe Broadcast News and the American Institute of Physics.</p> <table><tr><td><p>Ivanhoe Broadcast News 2745 West Fairbanks Avenue Winter Park, Florida 32789 (407) 740-0789 <u>http://www.ivanhoe.com</u></p><p>P.O. Box 865 Orlando, Florida 32802 <u>scitech@ivanhoe.com</u></p><p>© 2010 Ivanhoe Broadcast News, Inc.</p></td><td><p>American Institute of Physics One Physics Ellipse College Park, MD 19740-3843 (301) 209-3100 <u>http://www.aip.org/dbis</u></p></td></tr></table> | | <p>Ivanhoe Broadcast News 2745 West Fairbanks Avenue Winter Park, Florida 32789 (407) 740-0789 <u>http://www.ivanhoe.com</u></p> <p>P.O. Box 865 Orlando, Florida 32802 <u>scitech@ivanhoe.com</u></p> <p>© 2010 Ivanhoe Broadcast News, Inc.</p> | <p>American Institute of Physics One Physics Ellipse College Park, MD 19740-3843 (301) 209-3100 <u>http://www.aip.org/dbis</u></p> |
| <p>Ivanhoe Broadcast News 2745 West Fairbanks Avenue Winter Park, Florida 32789 (407) 740-0789 <u>http://www.ivanhoe.com</u></p> <p>P.O. Box 865 Orlando, Florida 32802 <u>scitech@ivanhoe.com</u></p> <p>© 2010 Ivanhoe Broadcast News, Inc.</p> | <p>American Institute of Physics One Physics Ellipse College Park, MD 19740-3843 (301) 209-3100 <u>http://www.aip.org/dbis</u></p> | | |