

POPULAR SCIENCE

CONTENIDO

VOLUMEN 277 No. 4, OCTOBER 2010

FEATURES

The future of THE HOME.

- 44 **Life on the Edge.**
Conceptual shelters that will project us all from rising waters, extreme heat, rampant pollution and overpopulation.
Suzanne LaBarre.
- 52 **Can this House Save You From the end of the World?**
Meet Robert Vicino, doomsday real-estate developer. For \$50,000, he'll sell you a spot in his luxury apocalypse-bunker community.
Arnie Cooper.

38 **FIELDWORK.**

Twisted.

The quest to track and surround a tornado is the quest to understand all weather. Inside the world's most dangerous meteorological experiment.
Corey Binns.

THE GREEN DREAM.

- 56 **Bringing it All Home.**
Popular Science's staff photographer has nearly finished building his eco-friendly home. Now he has some hard-won advice for anyone who wants to construct his own.
John B. Carnett.

INSTANT EXPERT.

- 58 **Rebuilt Minds.**
New drugs could help scientists understand memory formation and stop age-related memory loss.
Elizabeth Scoboda.
- 60 **Easy Freshwater.**
Desalination techniques are more efficient than ever. Could this process be the answer to our water woes?
Katherine Gammon.
- 62 **Unnatural Gas.**
Mining natural gas from shale is cheap but could spoil nearby waters.

Here's how to wrest fuel from the rocks.

Corey Binns.

64

Dirty Cosmos.

This map of cosmic dust particles could help astronomers understand how stars and planets form.

Katie Peek.

REGULARS

MEGAPIXELS

12

An organ on a chip; decapitating a dummy.

WHAT'S NEW

17

Home Tech.

A robotic hammer that fist anywhere.

18

The goods.

Bluetooth headset that records P.O.V. video, a sensor-packed chainsaw, and more.

20

Home Entertainment

New gear for controlling videogames with your body.

22

Automotive.

Chargers for electric cars.

HEADLINES

29

Theoretical Physics.

Was Einstein wrong about gravity? Inside the debate.

30

Artificial Organs.

Scientists learn how to grow a lung in the lab.

32

The Annotated Pig.

The pig genetically engineering to make more eco-friendly poo.

36

Forecast.

Robot maids, smellovision, lunar bases: Scientists predict the future.

HOW 2.0

67

You built What?!

A working replica of a 19th — century submarine that drives— yes, drives—on the seafloor.

70

Repurposed Tech.

Open your car doors with your cellphone.

72

Void Your Warranty.

Add an impressive e-reader display to your netbook.

74

Ask a Geek.

Should I overclock my computer?

FYI

79

Is that hair in my soup a health hazard? Can brain freeze harm you?

OTHER STUFF

08

From the editor.

10

The Inbox

100

The Future Then.