

## Make: Technology on Your Time Volume 31

From Maker Media, Inc

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Why are so many kids (and adults) like you bored by science? Simple: you've had no real contact with it. You might read about incredibly expensive scientific projects, but your hands-on experience is probably limited to the same tired experiments like baking soda and vinegar "volcanoes." Not any longer. Make Magazine's "Punk Science" issue (volume 31) shows you how you can become a real, cutting-edge amateur scientist. Find out how high school and college students can get an introduction to modern biology research through affordable biotech labs provided by Otyp, a small Michigan-based biotechnology company. And learn how a cooperative network of schools and research groups, called PEER, enables students to learn science by working on real projects with people in the field including the DECA (Distributed Electronic Cosmic-Ray) Observatory that uses Android phones to generate a real-time cosmic-ray flux map of a large area. This issue also shows you how to create these fascinating projects on your own: RoboRoach Surgically modify a cockroach with a wireless electronic circuit so that you can control it to turn left or right by micro-stimulating its antenna nerves. Lord Kelvins Thunderstorm a little-known, classic science experiment that generates high-voltage "lightning" sparks by dripping water through metal rings. An automatic Ball/Toy Launcher for Dogs that will keep your pet entertained and exercised while you're away. A True Mirror, which shows what you look like to other people. Pick up a copy of Make today and get involved with real science.

About the Author Mark Frauenfelder is a writer and illustrator living in Los Angeles, and the editor of MAKE. He is the cofounder of the popular Boing Boing weblog and was an editor at Wired from 1993-1998.