



# The Annotated Build-It-Yourself Science Laboratory: Build Over 200 Pieces of Science Equipment! (Make)

By Windell Oskay

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## The Annotated Build-It-Yourself Science Laboratory: Build Over 200 Pieces of Science Equipment! (Make) By Windell Oskay

Raymond E. Barrett's Build-It-Yourself Science Laboratory is a classic book that took on an audacious task: to show young readers in the 1960s how to build a complete working science lab for chemistry, biology, and physics--and how to perform experiments with those tools. The experiments in this book are fearless and bold by today's standards--any number of the experiments might never be mentioned in a modern book for young readers! Yet, many from previous generations fondly remember how we as a society used to embrace scientific learning.

This new version of Barrett's book has been updated for today's world with annotations and updates from Windell Oskay of Evil Mad Scientist Laboratories, including extensive notes about modern safety practices, suggestions on where to find the parts you need, and tips for building upon Barrett's ideas with modern technology. With this book, you'll be ready to take on your own scientific explorations at school, work, or home.

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## Editorial Review

### Review

My father's purpose in life was to see the excitement of discovery from children experimenting. It's wonderful seeing Windell Oskay bringing this book back to stimulate the next generation of children.

--Stephen Barrett

As relevant today as when it was first published, this book will support curious people of all ages to engage in serious fun--the starting points for falling in love with science all over again!

--Mike Petrich, Tinkering Studio--Exploratorium

Much, much more than a DIY Lab. It's really a fairly full course in experimental science.

--Forrest M. Mims III, Author and Amateur Scientist

### From the Back Cover

In *Make: The Annotated Build-It-Yourself Science Laboratory*, you'll make:

- » A carbon-arc furnace that can melt metal
- » Your own laboratory glassware
- » A cosmic ray-detecting cloud chamber
- » Microscopes--from 25× to 160× power
- » Barometers, thermometers, and hygrometers
  
- » Magnets, motors, batteries, and capacitors
- » A microtome, anemometer, and seismograph
- » A telescope, spectroscope, and nephoscope
- » Oxygen and hydrogen generators
- » A Campbell-Stokes sunshine recorder

As you build your equipment, you'll get ready for the over 1600 experiments in the book: Isolating hydrogen, growing crystals, finding lifeforms in a drop of water, measuring everything from mass to conductivity to metabolism rates to cosmic radiation, building an electric motor, and tracking the moons of Jupiter!

### About the Author

Windell Oskay is the co-founder of Evil Mad Scientist Laboratories, a Silicon Valley company that has designed and produced specialized electronics and robotics kits since 2007. Evil Mad Scientist Laboratories also runs a popular DIY project blog, and many of its projects have been featured at science and art museums and in *Make*, *Wired*, and *Popular Science* magazines. Windell was also a founding board member of

OSHWA, the Open Source Hardware Association. Previously, Windell has worked as a hardware design engineer at Stanford Research Systems and as a research physicist in the Time and Frequency Division of the National Institute of Standards and Technology. He holds a B.A. in Physics and Mathematics from Lake Forest College and a Ph.D. in Physics from the University of Texas at Austin.

## Users Review

### From reader reviews:

#### **Nathanael Ma:**

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#### **Dawn Hicks:**

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#### **Pearl Moore:**

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