

THE PHYSICS TEACHER

CONTENIDO

VOLUME 49 No. 5 MAY 2011

PAPERS

- 264 Equations as Guides to Thinking.
Paul G. Hewitt.
- 265 An Inexpensive Mechanical Model for Projectile Motion.
David Kagan.
- 266 Rolling the Black Pearl Over: Analyzing the Physics of a Movie Clip.
Carl E. Mungan and John D. Emery.
- 272 A Simple, Successful Capacitor Lab.
William Ennis.
- 273 Teaching Physics (and Some Computation) Using Intentionally Incorrect Simulations.
Anne J. Cox, William F. Junkin III, Wolfgang Christian, Mario Belloni, and Francisco Esquembre.
- 277 “Find-the-Flaw” Problems.
Daniel F. Styer.
- 280 Pressure Oscillations in Adiabatic Compression.
Roland Stout.
- 282 Adding a Bit More History to Science Courses.
William DeBuvitz.
- 284 A Teachable Moment Uncovered by Video Analysis.
Joshua Gates.
- 286 Measuring Electrical Current: The Roads Not Taken.
Thomas B. Greenslade Jr.
- 289 Revisiting the Ladder on a Wall Problem.
Yehuda Salu.
- 291 The Cramster Conclusion.
Michael Grams.
- 295 Physics Labs with Flaver II.

Mikhail M. Agrest.

- 298 Writing for Non-scientists about Physics.
Art Hobson.
- 300 Studying Hooke's Law by Using a Pogo Stick.
Nicolás Silva.
- 302 Special Relativity in Week One: 3) Introducing the Lorentz Contraction.
Elisha Huggins.
- 304 Switched-On Physics: If you can dream it, you can do it.
Scotty Graham.
- 308 Adding Value to Force Diagrams: Representing Relative Force Magnitudes.
Paul Wendel.

COLUMNS

- 260 **Letter to Editor**
- 261 **Editorial**
Thank You to Our 2010-2011 Referees.
Karl Mamola.
- 262 **Figuring Physics.**
Corner Refractor.
Paul Hewitt.
- 312 **Apparatus for Teaching Physics.**
Apparatus for demonstrating longitudinal wave pulses.
Walter L. Trikosko and Thomas O. Callaway.
- 314 **YouTube Physics.**
Diane Riendeau.
- 315 **Physics Challenge for Teachers and Students.**
Boris Korsunsky.
- 316 **Trick of the Trade.**
Rattleback bet.
Steve Dail.
- 316 **Fermi Questions.**
Larry Weinstein.
- 317 **For the New Teacher.**
Minute of physics.
Katie Page.

318 **Little Gems.**
Leaping shadows
Chris Goedde.

319 **WebSights.**
Dan Maclsaac.

320 **Book Reviews**
Powerful Ideas in Physical Science (PIPS).
Al Bartlett, reviewer.

Inside Back Cover **What's Happening!**

This Month's Cover...

Is an original depiction by AAPT graphic artist Matt Payne of Robert Hooke with a pogo stick. In his paper beginning on p. 300, author Nicolás Silva describes using a pogo stick in the physics classroom to study Hooke's law.