

THE PHYSICS TEACHER

CONTENIDO

VOLUME 49 No. 6 SEPTEMBER 2011

PAPERS

- 330 Physics From the News — Fukushima Daiichi: Radiation Doses and Dose Rates.
A. A. Bartlett.
- 332 High-Speed Video Analysis in a Conceptual Physics Class.
Dwain M. Desbien.
- 335 Ring Falling into a Chain: No Magic — Just Physics.
Michael Vollmer and Klaus-Peter Möllmann.
- 338 Pepper's Ghost.
Thomas B. Greenslade Jr.
- 340 Special Relativity in Week One: 4) Lack o Simultaneity.
Elisha Huggins.
- 343 Reanalyzing the Ampère-Maxwell Law.
S. Eric Hill.
- 346 Lotus Effect Toy.
Said Shakerin.
- 349 Racial and Gender issues with Physics in the Pacific Region.
Than aung, Awnesh Singh, and Uma Prased.
- 352 USAYPT Holds Annual February Tournament.
Bruce Oldaker.
- 353 The Rolling Release Rulapult.
Joseph West, Seth Ross, and James Flesher.
- 356 An Improved Box Theater.
Michael E. Huster.
- 357 Optics Demonstration with Student Eyeglasses Using the Inquiry Method.
Mark C. James.
- 360 A Simple Experiment to Standing Waves in a Flexible Corrugated Sound Tube.

Maria Eva Amorin, Teresa Delmira Sousa, P Simeão Carvalho, and Adrano Sampaio e Sousa.

- 363 Wikis as a Teaching Tool in Physics Classrooms.
Hashini E. Mohottala.
- 365 The “Green Lab”, Power Consumption by Commercial Light Bulbs.
James A. Einsporn and Andrew F. Zhou.
- 368 Infrared Imaging or Inquiry-Based Learning.
Charles Xie and Edmund Hazzard.
- 373 Flight Physics or Beginners: Simple Examples of Applying Newton’s Laws.
Vassilis Spathopoulos.
- 377 Building Dynamic Conceptual Physics Understanding.
Charlotte Trout, Scott A. Sinex, and Susan Ragan.
- 380 Motivating Calculus-Based Kinematics Instruction with Super Mario Bros.
Jeffrey C. Nordine.
- 383 Experiments Using Cell Phones in Physics Classroom Education: The Computer-Aided g Determination.
Patrik Vogt, Jochen Kuhn, and Sebastian Müller.
- 385 Single-Conceptual Clicker Question Sequences.
Albert Lee, Lin Ding, Neville W. Reay, and Lei Bao.

COLUMNS

- 324 **Letter to Editor**
- 326 **Figuring Physics.**
Post Wrap.
Paul Hewitt.
- 390 **Apparatus for Teaching Physics.**
Sub 410 sound card photogate variants.
Zoltan Gingl.
- 392 **Trick of the Trade.**
Using a roll of household wire for magnetic induction demonstrations.
Blane Baker.
- 392 **Fermi Questions.**
Larry Weinstein.
- 394 **YouTube Physics.**
Diane Korsunsky.

- 316 **For the New Teacher.**
Notes on Discussion: Using physics to teach ninth-graders to take effective notes in a science class.
Joe Kremer.
- 398 **Little Gems.**
Demonstration of the “trampoline effect” in aluminum bats.
David Kagan.
- 399 **WebSights.**
Dan MacIsaac.
- 400 **Book Reviews**
Fizz : Nothing is as it Seems — A young woman’s quest to understand the universe.
By Zvi Shreiber, *John L. Hubisz* reviewer.

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

This Month’s Cover...

Shows the phenomenon of a water drop beading up on the surface of a lotus leaf. Said Shakerin discusses how this “lotus effect” is illustrated in toys that use superhydrophobic surfaces, and their use in the physics classroom, in his article beginning on p. 346 of this issue.