

THE PHYSICS TEACHER

CONTENIDO

VOLUME 49 No. 7 OCTOBER 2011

PAPERS

- 410 Launch of a Vehicle from a Ramp.
Rod Cross.
- 412 The Joy of Teaching and Writing Conceptual Physics.
Paul G. Hewitt.
- 418 Preparing Your Students for Careers in Science and Engineering: How IS Your State Doing?
Susan White and Paul Cottle.
- 421 Decay Times and Quality Factors for a Resonance Apparatus.
Heather Stephens, Austin Tam, and Michael Moloney.
- 424 The St Louis Motor.
Thomas B. Greenslade Jr.
- 426 Don't Erase that Whiteboard! Archiving Student Work on a Photo-Sharing Website.
Edward Price, Stephen Tsui, Alicia Hart, and Lydia Saucedo.
- 429 The Physics of "string Passing Through Ice".
Pirooz Mohazzabi.
- 432 Projectile Motion Gets the Hose.
John Eric Goff and Chinthaka Liyanage.
- 434 Teaching Quantum Uncertainty.
Art Hobson.
- 438 An Estimation of the Number and Size of Atoms in a Printed period.
Beth Schaefer, Edward Collet, Anne Tabor-Morris, and Joseph Croman.
- 440 Introducing Rotational Motion with EXIF Data.
James Peterson.
- 442 A School Experiment on Kinematics: Shooting from a Ballistic Cart.
T Kranjc and N. Razpet.
- 445 A New Perspective on Eratosthenes' Measurement of the Earth.

Ronald A. Brown and Alok Kumar.

- 448 **Physics Myth Busting: A Lab-Centered Course for Non-Science Students.**
Martin John Madsen.

COLUMNS

- 404 **Letter to Editor**
- 406 **AAPT Awards.**
David Cook.
- 408 **Figuring Physics.**
Falling Balls.
Paul Hewitt.
- 452 **Apparatus for Teaching Physics.**
A do-it-yourself optical bench.
Leoš Dvořák.
- 456 **Trick of the Trade.**
Simple experimental setup to consolidate the angular momentum concept.
M. Boutinguiza and F. Lusquiños.
- 457 **YouTube Physics.**
Diane Riendeau.
- 458 **Fermi Questions.**
Larry Weinstein.
- 458 **Physics Challenge for Teachers and Students.**
Boris Korsunsky.
- 459 **For the New Teacher.**
Physics Teacher Camp.
John Burk and Josh Gates.
- 460 **Little Gems.**
“Can You See Me Now?” Using a favorite haunted physics laboratory project to teach color theory.
Nancy Donaldson.
- 462 **WebSights.**
Dan Maclsaac.
- 463 **Book Reviews**
The Tiger and the Physics: Insights into the Physics We Teach.
By Robert P. Bauman: *John Hubisz reviewer.*
- 464 **Inside Back Cover What’s Happening!**

This Month's Cover...

Is the second place winner in the Contrived category of AAPT's 2011 High School Physics Photo Contest. The finger applies pressure as it circles the rim of a crystal wine glass, the glass vibrates, and the excited water shoots out of the glass in all directions. Also, the glass creates a high-pitched sound because of the vibrations.

(photo by: Thomas Alper, West Boca Raton High School; Marc Bjorkland, teacher)