# THE SCIENCE TEACHER

# **CONTENIDO**

### VOLUME 77 No. 6 SEPTEMBER 2010

## FEACTURES ON THE THEME

## **Encouraring Creativity in the Science Lab.**

A series of activities designed to help students think outside the box. *Linda Eyster*.

## **Supporting Right-Brained Thinking.**

Letter writing, character analysis, proverbial statements, and genetics problems that inspire students to think creatively. *Lee M. Mescolotto*.

### 40 What Microbe Are You?

A personality quiz and modeling activity to build understanding of marine microbes.

Kinberly Weersing, Jacqueline Padilla-Gamiño, and Barbara Bruno.

#### ALSO IN THIS ISSUE

### 46 Big Air.

An in quiry-based projectile motion lesson for high school physics students. *Allen Laryer*.

# **Fueling the Car of Tomorrow.**

An Alternative fuels curriculum for high school science classes.

Mark Schumark. Stokes Baker; Mark Benvenuto, James Graves, Arthur Haman, and Daniel Maggio.

# **The Art of Electrospinning.**

A nanotechnology engineering investigation for physics and chemistry labs. *Sarah Vandermeer*.

# **DEPARTAMENTS**

#### **6** Editor's Corner

Create and Innovate!

### 8 Message From the NSTA President

Imagine and Invent: Create a Great Future.

#### 10 Safer Science

Shork and Awe: Peroxide Safety.

**Science 2.0** 

GeoEverything: The Magic Carpet.

12 The Green Room

School Gardens.

14 The New Teacher's Toolbox. NEW!

Conquering the "So What Now?" Moment.

**Headline Science** 

Diabetes Device for Dogs • Stressed Fish • IBS and the Brain • Mars Map • Two-Bodied Caterpillars • Invisibility Cloak • Home Computers • Online Learning.

- 45 **Author Guidelines**
- **NSTA Conferences**
- 66 Idea Bank

Explaining Biological Phenomena • Materials Mayhem.

74 Career of the Month.

An Interview With Audiologist Brian Fligor.

- 76 Call for Papers
- 78 NSTA Recommends
- 92 Index of Advertisers

### **COVER**

Creativity in the science classroom? Of course! This issue provides a host of activities to foster creative thinking in your classroom. Students will solve genetics problems, make microbe models, and work behind cardboard dividers—all while thinking critically and creatively. Read on for more ways to encourage creativity in your classroom.