FACTURES

16 Integrative Metabolism: An Interactive Learning Tool for Nutrition, Biochemistry, and Physiology.
   Gale Carey.

23 Science From the Pond Up: Using Measurement to Introduce Inquiry.
   Abdulkadir Demir; Frank Schmidt, and Sandra K. Abell.

28 Increasing Scientific Literacy About Global Climate Change Through a Laboratory-Based Feminist Science.
   Linda A. George and Johanna Brener.

35 A writing and Ethics Component for a Quantum Mechanics, Physical Chemistry Course.
   John T. Really and Michael Sstrickland.

42 Developing Problem-Solving Skills of Students Taking Introductory Physics via Web-Based Tutorials.
   Chandralekha Singh and Daniel Haileselassie.

50 Virtual Field Exercises in the Online Classroom: Practicing Science Teachers’ Perceptions of Effectiveness, Best Practices, and Implementation.
   Renee M. Clary and James H. Wandersee.

DEPARTMENTS

6 Editorial
   It’s not Just You.
   Ann Cutler.

8 Guest Editorial
   Where Are the Women of Color? Data on African American, Hispanic, and Native American Faculty in STEM.
   Marcy H. Towns.

10 Letters

12 Headline Science
   Newly Discovered Spider • A Galactic GPS?
14  **Point of View**  
A Lateral View of Darwin.  
*Pangratios Papacosta.*

60  **Favorite Demonstration**  
Inquiry-Based Approach to Understanding Common Descent.  
*Monica Parker.*

64  **Case Study**  
Speak UP! Mini Cases in Language.  
*Antoinette R. Miller.*

68  **Research and Teaching**  
Toward a Deeper Understanding of Student Interest or Lack of Interest in Science.  
*Li-Hsuan Yang.*

80  **Research and Teaching.**  
Transfer of Knowledge in Science Courses for Elementary Education Majors.  
*Amy Flanagan Johnson and Sandra Rutherford.*

**ALSO IN THIS ISSUE**

92  **Index of Advertisers**

**COVER**

Learn how Google Earth laboratory exercises can become virtual field experiences on page 50. Find out about a pond measurement activity that helped change the mindset of nonscience majors from cookbook to inquiry science on pages 23. Concerned about ethics in science? Read about an ethics and writing unit that was incorporated into a quantum chemistry course on page 35. **Cover image:** Basalt columns rising from the sea. This geological feature results from erosion on ancient volcanic larva. Photo be Macsnap for *ISockphoto.com.*