

## New Titles

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in each layer of ice represent tiny samples of the Earth's ancient atmosphere. Through painstaking analysis, the history of atmospheric composition can be reconstructed—decade upon decade, century by century, millennium after millennium. In this way, we can accurately assess the long-term changes in the concentrations of greenhouse gases such as carbon dioxide and methane. This is vital information for climate models, and it cannot be obtained in any other way.

Fish biologist Art DeVries has been researching how fish living near the shores of Antarctica keep themselves alive in subfreezing waters. He began his fieldwork in Antarctica in 1961, and he and his team of researchers have now discovered how these fish make antifreeze compounds in their bodies and how the compounds isolate and essentially neutralize the inevitable ice crystals—both those that are ingested from the icy waters and those that form inside fish's body cavities. It has been a long, hard struggle, but 50 years of research by DeVries and his colleagues has produced invaluable discoveries about fish physiology and biochemistry.

*Secrets of the Ice* is richly illustrated with color photographs of Antarctic landscapes, wildlife, and the scientists at work in the field and laboratory. I highly recommend it to readers interested in cold-regions research.

SCOTT A. ELIAS

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## NEW TITLES

**Biology and Conservation of Martens, Sables, and Fishers: A New Synthesis.** Keith B. Aubry, William J. Zielinski, Martin G. Raphael, Gilbert Proulx, and Steven W. Buskirk, eds. Cornell University Press (Comstock),

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2012. 608 pp., illus. \$75.00 (ISBN 9780801450884 cloth).

**The Cambrian Explosion: The Construction of Animal Biodiversity.** Douglas Erwin and James Valentine. Roberts and Company, 2013. 416 pp., illus. \$48.00 (ISBN 9781936221035 cloth).

**Climate Change and Inland Waters: Impacts and Mitigation for Ecosystems and Societies.** Charles R. Goldman, Michio Kumagai, and Richard D. Robarts, eds. Wiley, 2013. 496 pp., illus. \$129.95 (ISBN 9781119968665 cloth).

**Concealing Coloration in Animals.** Judy Diamond and Alan B. Bond. Harvard University Press (Belknap), 2013. 274 pp., illus. \$29.95 (ISBN 9780674052352 cloth).

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**Evolving: The Human Effect and Why It Matters.** Daniel J. Fairbanks. Prometheus Books, 2012. 352 pp., illus. \$19.00 (ISBN 9781616145651 paper).

**Geckos: The Animal Answer Guide.** Aaron M Bauer. Johns Hopkins University Press, 2013. 192 pp., illus. \$26.95 (ISBN 9781421408538 paper).

**Harvesting the Biosphere: What We Have Taken from Nature.** Vaclav Smil. MIT Press, 2012. 312 pp., illus. \$29.00 (ISBN 9780262018562 cloth).

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**Introduction to Cell Mechanics and Mechanobiology.** Christopher R. Jacobs, Hayden Huang, and Ronald Y. Kwon. Taylor and Francis (Garland Science), 2012. 350 pp., illus. \$90.00 (ISBN 9780815344254 paper).

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**Resilience and the Cultural Landscape: Understanding and Managing Change in Human-Shaped Environments.** Tobias Plieninger and Claudia Bieling, eds. Cambridge University Press, 2012. 361 pp., illus. \$70.00 (ISBN 9781107020788 cloth).

**Rising Seas: Past, Present, Future.** Vivien Gornitz. Columbia University Press, 2013. 360 pp., illus. \$40.00 (ISBN 9780231147392 paper).

**Understanding Microbes: An Introduction to a Small World.** Jeremy W. Dale. Wiley, 2013. 240 pp., illus. \$49.95 (ISBN 9781119978794 paper).

**Visions of a Vanished World: The Extraordinary Fossils of the Hunsrück Slate.** Gabriele Köhl, Christoph Bartels, Derek E. G. Briggs, and Jes Rust. Yale University Press, 2012. 128 pp., illus. \$40.00 (ISBN 9780300184600 cloth).

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