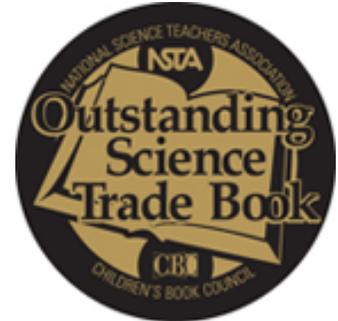




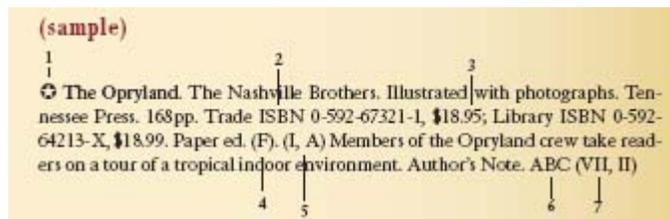
## Outstanding Science Trade Books for Students K–12: 2005 (Books published in 2004)

[OSTB home](#)

The books that appear in this annotated bibliography selected as Outstanding Science Trade Books were published in 2004. Information at the end of this list includes details about the [list and the selection process](#), a listing of the [selection panel members](#), and more information about the [Children's Book Council and NSTA](#).



### About the Annotations



In addition to standard publishing information, the annotations indicate the following:

1. Titles marked with ☉ are Selectors' Choices—books that individual panel members responded to with particular enthusiasm.
2. International Standard Book Numbers (ISBN) are included for all available editions (trade, library, and paperback).
3. The prices are current as of January 2005.
4. The notation Paper ed. (F) indicates that a paperback edition is forthcoming and whether the publisher is different from the hardcover edition.
5. Reading levels [P = Primary (K–2); E = Elementary (3–5); I = Intermediate (6–8); A = Advanced (9–12)] are provided by the reviewers. They are intended as guidelines and are not meant to limit the potential use of titles.
6. The reviewer's initials follow each description (see [Members of the Book Selection Panel](#)).
7. The most relevant National Science Content Standards are indicated by Roman numerals (see below).

### National Science Content Standards

- I Unifying Concepts and Processes
  - II Science as Inquiry
  - III Physical Science
  - IV Life Science
  - V Earth and Space Science
  - VI Science and Technology
  - VII Science in Personal and Social Perspectives
  - VIII History and Nature of Science
- 

## Archaeology, Anthropology, and Paleontology

***Feathered Dinosaurs of China.*** Written and illustrated by Gregory Wenzel. Charlesbridge. 32pp. Trade ISBN 1-57091-561-X, \$16.95; Paperback ISBN 1-57091-562-8, \$6.95. (E) Paleontologists working in China have unearthed astonishing fossils of feathered dinosaurs. Conditions in this region of China were such that not only bones, but also feathers, fine hairs, and soft body parts were preserved. The book describes what life in the early Cretaceous period might have been like, and the author offers an exciting connection between birds and dinosaurs. Author's Note, Glossary/Index. LO (IV, V)



Figure 1: Illustration © 2004 by Gregory Wenzel. Reprinted with permission of Charlesbridge Publishing.

## Biography

***American Women Inventors.*** Carole Ann Camp. Illustrated with photographs. Enslow Publishers. 104pp. Library ISBN 0-7660-1913-6, \$26. (A) Ever wondered who invented the square-bottom paper bag and Kevlar? This inspirational book introduces readers to Margaret Knight, Stephanie Kwolek, and other women who have invented products and developed ideas that changed the way people live. Bibliography, Index, Chapter Notes. DAG (VIII, VII)

***The Boy Who Drew Birds: A Story of John James Audubon.*** Jacqueline Davies. Illustrated by Melissa Sweet. Houghton Mifflin Company. 32pp. Trade ISBN 0-618-24343-7, \$15. (E) This beautifully illustrated book focuses on the young John Audubon's interest in migrating birds and depicts his attempts to determine whether some birds return to the same nest each spring. The book nicely blends historical information with a description of the process a naturalist goes through to investigate a "mystery" of nature. Author's Note. CRB (II, VIII, IV)

***The Burn Journals.*** Brent Runyon. Alfred A. Knopf/Random House Children's Books. 384pp. Trade ISBN 0-375-82621-1, \$17.95; Library ISBN 0-375-92621-6, \$19.99. (A) Content and language for mature readers. In this true story, the author recounts how he wound up with burns over 80 percent of his body after attempting suicide. This journal documents Brent's physical and psychological



Figure 2: *The Boy Who Drew Birds: A Story of John James Audubon* ©2004, Written By Jacqueline Davies, Illustrated by Melissa Sweet, Houghton Mifflin Co.

struggles to recover from his injuries and return to high school. Includes some science and information about treatments used for burn victims. Author's note. DTC (VII, VI, IV)

★ ***The Flower Hunter: William Bartram, America's First Naturalist.***

Written and illustrated by Deborah Kogan Ray. Frances Foster Books/Farrar, Straus and Giroux. 40pp. Trade ISBN 0-374-34589-9, \$17. (E) William Bartram's captivating life story is written as a series of journal entries of drawings and observations. Named "Puc Puggy" (flower hunter) by the Seminole, Bartram inherited a love of nature from his botanist father. Vibrant watercolor illustrations and delightful pencil sketches illustrate the story of America's first botanical artist. Author's Note, Bibliography, Biographical Notes, List of Bartram's Plant Discoveries, Afterword, Map, Engraving by Bartram. VDW (VIII, IV)



Figure 3: *The Flower Hunter* © 2004 by Deborah Kogan Ray. Used with the permission of Farrar, Straus and Giroux.

★ ***Linus Pauling: Advancing Science, Advocating Peace.*** Naomi Pasachoff.

Illustrated with photographs. Enslow Publishers. 128pp. Library ISBN 0-7660-2130-0, \$26.60. (A) This excellent biography of Linus Pauling illustrates his contributions to life and peace. The book charts Pauling's interest in science from childhood experiences with chemistry to his Nobel Prizes. This inspirational book will show teenage scientists what is achievable through hard work and perseverance. Bibliography, Glossary, Index. CDC (VIII, VII, III)

★ ***Maria Mitchell: The Soul of an Astronomer.*** Beatrice Gormley. Illustrated with photographs.

Eerdmans Books for Young Readers. 149pp. Paperback ISBN 0-8028-5264-5, \$12. (I) This is an extraordinary book about an extraordinary woman! Maria Mitchell broke through myriad barriers of the mid-nineteenth century to become a world-renowned astronomer (discovering Comet Mitchell) and professor at the first U.S. college for women, Vassar. Her inspiring biography describes her fight for intellectual integrity and women's rights. Index, Suggestions for Further Reading. LSG (VIII, VII, V)

***Marie Curie: A Brilliant Life.*** Elizabeth MacLeod. Illustrated with prints and photographs. Kids Can Press. 32pp. Trade ISBN 1-55337-570-X, \$16.95; Paperback ISBN 1-55337-571-8, \$7.95. (I)

Quotations, photographs, reproductions of papers, and captions are used throughout this captivating biography to reveal the story of this pioneering scientist who was the first woman to win a Nobel Prize. The author describes Curie's professional and personal achievements, tragedies, and lasting contributions to society. Timeline, Index, Resources. CBR (III, VII, VIII)

## Earth and Space Science

★ ***Are We Alone? Scientists Search for Life in Space.*** Gloria Skurzynski. Illustrated with prints and photographs. National Geographic Society. 96pp. Trade ISBN 0-7922-6567-X, \$18.95; Library ISBN 0-7922-6967-5, \$28.90. (I) This book begins with a discourse on extraterrestrial life, describing the Search for Extraterrestrial Intelligence (SETI) project and the scientists involved. It further explains how researchers have discovered planets outside our solar system, how life may have formed, the extreme variety of life on our planet, and what "intelligence" is. Most fascinating are the short asides in

which scientists describe their lives and why they love the field they are working in. Glossary, Index, Selected Bibliography, Quote Sources. CVM (V, VII)

***Forces of Nature: The Awesome Power of Volcanoes, Earthquakes, and Tornadoes.*** Catherine O'Neill Grace. Illustrated with prints and photographs. National Geographic Society. 64pp. Trade ISBN 0-7922-6328-6, \$17.95. (I) This book uses striking color photographs from recent events (such as the Montserrat eruption, the Izmit earthquake in Turkey, and tornadoes in the United States) to illustrate these destructive forces of nature. The book explains, in scientific terms, how these events occur and the effects these catastrophes can have on human populations. Glossary, Bibliography Index. CDC (V, VII)

***Pterosaurs: Rulers of the Skies in the Dinosaur Age.*** Caroline Arnold. Illustrated by Laurie Caple. Clarion Books. 40pp. Trade ISBN 0-618-31354-0, \$16. (E) This book describes with great detail the lives of the various flying reptiles that ruled the air during the Mesozoic era. The fossil evidence for scientific inferences is presented, and wonderful illustrations bring these extinct pterosaurs to life. Index. CVM (V)

***Rocket Man: The Mercury Adventure of John Glenn.*** Ruth Ashby. Illustrated by Robert Hunt and photographs from NASA. Peachtree Publishers. 144pp. Trade ISBN 1-56145-323-4, \$12.95. (E) Part biography and part real-life adventure, this book about John Glenn climaxes with the story of his exciting space mission in the Mercury capsule, Friendship 7. This is a must-read for its historical perspective on the space program as well as its inspirational story. Includes a Space Explorers section—a brief history of the U.S. space program; Bibliography, For Further Reading and Viewing. LSG (V, VIII, VII)

***Scholastic Atlas of Weather.*** QA International. Scholastic Reference. 80pp. Trade ISBN 0-439-41902-6, \$17.95. (E) The ABCs of everyday weather, as well as severe conditions, will fascinate readers. Dust storms, hail, hurricanes, volcanoes, global warming, pollution, and the technology and tools meteorologists use are some of the many topics explored. Full-color illustrations, easy-to-read information, and nine weather-related experiments make this a useful classroom reference. Glossary, Index, Bibliography, Websites. VDW (V, VI)

***T. Rex.*** Vivian French. Illustrated by Alison Bartlett. Candlewick Press. 32pp. Trade ISBN 0-7636-2184-6, \$15.99. (P) This charmingly illustrated book presents the life of a Tyrannosaurus rex, including explanations of the fossil evidence behind this representation. Most importantly, the book also emphasizes the gaps in current knowledge of prehistoric life and suggests that the future scientist who will discover additional fossils and evidence might be the reader. The recurring theme is “Why don’t we know? It was millions and millions of years ago.” Index. CVM (II, V)

## **Environment and Ecology**

***Endangered Planet*** (Kingfisher Knowledge). David Burnie. Illustrated with prints and photographs. Kingfisher/Houghton Mifflin Company. 64pp. Trade ISBN 0-7534-5776-8, \$11.95. (I) This is an important book for everyone who is concerned about the environment. Illustrated with full-color photographs throughout, *Endangered Planet* describes natural cycles and habitats and the impact

humans have on the environment. Contains messages that encourage sustainable living. Foreword, Glossary, Index, Web Resources. CDC (IV, VII) [Also recommended in this series: *Microscopic Life*. Richard Walker. Illustrated with prints and photographs. Kingfisher/Houghton Mifflin Company. 64pp. Trade ISBN 0-7534-5778-4, \$11.95.]

★ ***Arrowhawk***. Lola M. Schaefer. Illustrated by Gabi Swiatkowska. Henry Holt Books for Young Readers. 32pp. Trade ISBN 0-8050-6371-4, \$16.95. (I) Based on the true story of a red-tailed hawk that was shot with an arrow, this book is simultaneously disturbing and heartwarming. Beautifully illustrated and written in scientific yet emotionally stirring prose, this book will make readers empathize with the hawk's struggle to survive. A section at the end of the book discusses raptor conservation and provides a short summary of the actual events that inspired this story. DW (IV, VII)

★ ***Following the Coast***. Written and illustrated by Jim Arnosky. Harper-Collins Publishers. 32pp. Trade ISBN 0-688-17117-6, \$15.99; Library ISBN 0-688-17118-4, \$16.89. (E) See the eastern coastline of the United States through the eyes of the author, who is a naturalist, fisherman, boatman, and avid wildlife watcher. Arnosky's sparkling illustrations and vivid descriptions will transport the reader to the seaside. Introduction. BGS (II, IV, VIII)

***Forest Explorer: A Life-Size Field Guide***. Written and illustrated with photographs by Nic Bishop. Scholastic Press. 48pp. Trade ISBN 0-439-17480-5, \$17.95. (E) Children of all ages will be fascinated with this photographic nature guide. Included are seven life-size habitat scenes showing more than 130 animals, from aphids to toads, in their natural surroundings. The reader is transported from the leafy forest understory to the treetops after dark. A wonderful picture index features photographs of each animal in the book. Table of Contents, Author's Note: How to Use This Book, Picture Index. BGS (IV, II)

***Garden of the Spirit Bear: Life in the Great Northern Rainforest***. Dorothy Hinshaw Patent. Illustrated by Deborah Milton. Clarion Books. 40pp. Trade ISBN 0-618-21259-0, \$16. (E) This book describes a unique northwestern rain forest inhabited by a type of black bear referred to as the "spirit bear." Beautiful illustrations depict the relationships among the trees of the forest, salmon, and bears that are threatened by modern logging techniques such as clear-cutting. This book describes efforts to preserve portions of the spirit bear's habitat and minimize the impact of human activities. Index, Resources. CBR (IV, VII)

★ ***Looking for Seabirds: Journal from an Alaskan Voyage***. Written and illustrated by Sophie Webb. Houghton Mifflin Company. 48pp. Trade ISBN 0-618-21235-3, \$16. (I) Using the format of a scientist's notebook, the author describes how she worked with researchers to understand the birds that inhabit the Aleutian Islands of Alaska. The author looks at how these birds survive and the importance of understanding the possible impact of human activities on the Arctic marine ecosystem. Glossary. DAG (VIII, VII, IV)

★ ***Nature in the Neighborhood***. Written and illustrated by Gordon Morrison. Walter Lorraine Books/Houghton Mifflin Company. 32pp. Trade ISBN 0-618-35215-5, \$16. (E) *Nature in the Neighborhood* is a beautifully illustrated and informative book about the abundance of animals and plants in an urban environment and how these organisms change with the seasons. The author demonstrates how nature

can be found in one's backyard, making this a valuable resource for anyone living in an urban setting. Author's Note. CRB (IV)

**One Small Place in a Tree.** Barbara Brenner. Illustrated by Tom Leonard. HarperCollins Publishers. 32pp. Trade ISBN 0-688-17180-X, \$15.99; Library ISBN 0-688-17181-8, \$16.89. (A) By looking at a microhabitat in a single tree, the reader will discover the relationships between the tree and the various organisms, from bears to beetles to birds, that make the tree their home. DAG (IV)



Figure 4: *One Small Place in a Tree*. Text © 2004 by Barbara Brenner, Illustration © 2004 by Tom Leonard, used with permission from HarperCollins Publishers

★ **The Race to Save the Lord God Bird.** Phillip Hoose. Illustrated with prints and photographs. Melanie Kroupa Books/Farrar, Straus and Giroux. 208pp. Trade ISBN 0-374-36173-8, \$20. (I, A) Illustrated with black-and-white photographs and maps, this fascinating story documents the study of a disappearing species, the magnificent and elusive ivory-billed woodpecker. The inevitable collision between attempts to save the bird from extinction by preserving its old-growth forest habitat and the nation's insatiable need for timber and wood products during the 1940s sets the stage for this tragic story. Timeline, Glossary, Index, Sidebar Text. CBR (IV, VII, VIII)

★ **Search for the Golden Moon Bear: Science and Adventure in the Asian Tropics.** Sy Montgomery. Illustrated with photographs. Houghton Mifflin Company. 80pp. Trade ISBN 0-618-35650-9, \$16. (I) This engaging true story describes scientists' search for a new species of bear. The author has done a wonderful job explaining the methods and techniques researchers used. The story ends with a twist often encountered when using the scientific method. Appendices, Further Read-ings with Websites, Index, Map of S.E. Asia, Bear Facts. LO (IV, VI, VII)



Figure 5: *Search for the Golden Moon Bear: Science and Adventure in the Asian Tropics* © 2004, written by Sy Montgomery, Houghton Mifflin Co.

**The Temperate Forest: A Web of Life.** Philip Johansson. Illustrated with photographs. Enslow Publishers. 48pp. Library ISBN 0-7660-2198-X, \$23.93. (E) The author takes the reader on a journey through a temperate forest, providing a glimpse of the plants and animals found there and the interactions between them that create food webs. The author also describes how energy flows through this biome. Table of Contents, Glossary, Further Reading, Internet Addresses, Index. LO (IV, I)

## Life Science

**Bodyscope: Movers and Shapers.** Patricia Macnair. Illustrated with prints and photographs. Kingfisher/Houghton Mifflin Company. 40pp. Trade ISBN 0-7534-5791-1, \$9.95. (E) Fifteen topics of interest include how the skeleton supports the body, what muscles do, how a broken bone heals, and skeleton secrets. One unique feature is the Info Lab, which supplies fast facts. Photographs, x-rays, and other graphics reinforce understanding. Glossary, Index, Websites, Pull-out Poster. VDW (IV)

★ ***Decoding Life: Unraveling the Mysteries of the Genome.*** Ron Fridell. Illustrated with photographs. Lerner Publishing Group. 96pp. Library ISBN 0-8225-1196-7, \$27.93. (I) From Gregor Mendel to genetic engineering, this book provides an overview of modern genetics. The author discusses the completion of the Human Genome Project and explores its potential for improving human life as well as the possible unintended implications of this knowledge. This book is very readable for the intended audience. Bibliography, Glossary, Index, Source Notes, Further Reading, Websites. DTC (IV, VI, VII)

***Eliza and the Dragonfly.*** Susie Caldwell Rinehart. Illustrated by Anisa Claire Hovemann. Dawn Publications. 32pp. Trade ISBN 1-58469-060-7, \$16.95; Paperback ISBN 1-58469-059-3, \$8.95. (E) This is a story of Eliza, her entomologist aunt, and the life cycle of a dragonfly. Through Eliza's interest in a dragonfly, the reader is introduced to life in a pond. The last portion of the book provides additional information and resources about dragonflies and related organisms. CRB (II, IV)

***The Human Story: Our Evolution from Prehistoric Ancestors to Today.*** Christopher Sloan. Illustrated by Kennis and Kennis with photographs by Kenneth Garrett. National Geographic Society. 80pp. Trade ISBN 0-7922-6325-1, \$21.95. (I) In true National Geographic style, this book describes the evolution of hominins from our African origins to present-day *Homo sapiens* with stunning photographs and drawings of numerous transitional fossils. With accurate and current information about genes, taxonomy, dating procedures, timelines, and bones, this book is a comprehensive resource on human evolution. Foreword (by Meave Leakey and Louise Leakey), Glossary, Pronunciations, Bibliography, Index. DTC (IV, I, VIII)

***Lizards*** (Animal Ways). Dan Greenberg. Illustrated with prints and photographs. Benchmark Books/Marshall Cavendish. 112pp. Library ISBN 0-7614-1580-7, \$21.95. (I) Students interested in reptiles will appreciate this book as will educators who teach taxonomy. With lively text and crisp, clear photos and graphics, this introduction to lizards outlines the basics of the lizard "family tree," lizard biology, and the many different ecological niches of the suborder Sauria. Information about some of the most strange and wonderful lizard species is included. Bibliography, Glossary, Index, Book Resources List, Websites, Species Checklist, Evolutionary Timetable. DW (IV)

***Outside and Inside Killer Bees.*** Sandra Markle. Illustrated with photographs. Walker & Company. 40pp. Trade ISBN 0-8027-8906-4, \$17.95; Library ISBN 0-8027-8907-2, \$18.85. (E, I) What are killer bees? This book describes the key differences between European honey-bees and the Africanized bees known as killer bees. The author compares behavior, physical traits, and DNA of the two types of bees. The text is enhanced with full-color photographs. Glossary. CBR (IV, II)

***Snakes! Strange and Wonderful.*** Laurence Pringle. Illustrated by Meryl Henderson. Boyds Mills Press. 32pp. Trade ISBN 1-59078-003-5, \$15.95. (E) They climb, dive, swim, and glide—all without legs, arms, fins, or wings! This brightly illustrated book introduces the reader to the amazing adaptations of snakes from the way they move and how they secure their prey to their different modes of reproduction. Note: The green bush viper, *Atheris squamigera* (also known as the Variable Bush Viper), illustrated on page 6 is an orange morph. A short history of the relationship between snakes and people is included at the end of the book with a reference to snake conservation. DW (IV, VII)

***Spiders and Their Webs.*** Darlyne A. Murawski. Illustrated by Mark Burrier, with photographs by Darlyne A. Murawski. National Geographic Society. 32pp. Trade ISBN 0-7922-6979-9, \$16.95; Library ISBN 0-7922-6994-2, \$25.90. (P) Remarkable photography and a lively narrative of interesting observations and spider facts combine in this outstanding book. The reader will learn how each spider weaves a unique web to capture its particular prey, how spiders hold their prey once captured, and how spiders use their silk. Author's Note, Glossary, References, Websites, Activity. NJP (IV)

★ ***The Tarantula Scientist.*** Sy Montgomery. Illustrated with photographs by Nic Bishop. Houghton Mifflin Company. 80pp. Trade ISBN 0-618-14799-3, \$18. (E) The author teamed up with a spider scientist and a photographer to reveal fascinating discoveries about the biggest and hairiest spiders—tarantulas. Stunning close-up photographs capture hours of observing tarantulas and answer questions that invoke more questions. An exemplary model of science in action. Bibliography, Glossary, Index. NJP (IV)

***Tigers.*** Written and illustrated with photographs by Lynn M. Stone. Lerner Publishing Group. 48pp. Library ISBN 1-57505-578-3, \$25.26. (E) This book looks at the life of tigers from birth to adulthood. Included is information about the historic and current range of tigers, tiger behavior, and interactions of tigers with humans. Glossary, Index. DAG (IV) [Also recommended in this series: Caribou. Susan E. Quinlan. Illustrated with photographs. Lerner Publishing Group. 48pp. Library ISBN 1-57505-579-1; \$25.26. Crows. Sylvia Johnson. Illustrated with photographs. Lerner Publishing Group. 48pp. Library ISBN 1-57505-628-3, \$25.26.]



*Figure 6: The Tarantula Scientist* © 2004, illustrated with photographs by Nic Bishop, written by Sy Montgomery, Houghton Mifflin Co.

## Physical Science

***I Fall Down.*** Vicki Cobb. Illustrated by Julia Gorton. HarperCollins Publishers. 40pp. Trade ISBN 0-688-17842-1, \$15.99; Library ISBN 0-688-17843-X, \$16.89. Paper ed. (F). (P) This visually appealing and conceptually sound physical science book introduces young children to the concepts of gravity and weight. The concepts are reinforced through many real-life examples and fun activities that could easily be duplicated in class or at home. Note to the Reader. LSG (III, II)

## Technology and Engineering

***Fantastic Feats and Failures.*** The Editors of YES Mag. Illustrated with photographs. Kids Can Press. 52pp. Trade ISBN 1-55337-633-1, \$17.95; Paperback ISBN 1-55337-634-X, \$9.95. (E) This fascinating book compares and contrasts accomplishments and failures in engineering history. Excellent photos and discussions will introduce the reader to engineering feats like the Eiffel Tower and the Panama Canal as well as infamous failures like Chernobyl and Apollo 13. A thought-provoking book! Contents, Glossary, Index. BGS (VI, VIII, I)

## **Members of the Book Selection Panel**

### **David Crowther (DTC)**

Associate Professor, Science Education  
University of Nevada, Reno  
Reno, Nevada

### **Charlie Barman (CRB)**

Professor of Science Education  
Indiana University School of Education  
Indianapolis, Indiana

### **Christopher Clements (CDC)**

Physics Teacher  
Marlborough High School  
Marlborough, Massachusetts

### **David Gillam (DAG)**

Elementary Teacher  
Susitna Elementary  
Anchorage, Alaska

### **Christine McLelland (CVM)**

GSA Earth Science Educator  
Geological Society of America  
Boulder, Colorado

### **Larry Olsen (LO)**

Science Teacher  
Apopka High School  
Apopka, Florida

### **Norby Pratt (NJP)**

Consultant  
Educational Consultant, Inc.  
Littleton, Colorado

### **Cynthia Roepke (CBR)**

Curriculum Coordinator  
Pickerington Local Schools  
Pickerington, Ohio

### **Linda Schoen Giddings (LSG)**

Science Assessment Specialist  
South Carolina Department of Education  
Columbia, South Carolina

**Brenda Shackelford (BGS)**

Principal

Elizabeth Elementary School

Shelby, North Carolina

**Vickie Weiss (VDW)**

Multiage Elementary Teacher

City School

Grand Blanc, Michigan

**David Wojnowski (DW)**

Doctoral Student, Curriculum

and Instruction, Science Education

Kent State University

Kent, Ohio

**About the Books and the Selection Process**

The books that appear in this annotated bibliography selected as Outstanding Science Trade Books were published in 2004. They are intended primarily for kindergarten through twelfth grade. They were selected by members of a book review panel appointed by the National Science Teachers Association (NSTA) and assembled in cooperation with the Children's Book Council (CBC). NSTA and CBC have cooperated on this bibliographic project since 1973.

The panel looks at both content and presentation. Selection is based generally on the following criteria:

- The book has substantial science content;
- Information is clear, accurate, and up to date;
- Theories and facts are clearly distinguished;
- Facts are not oversimplified to the point where the information is misleading;
- Generalizations are supported by facts and significant facts are not omitted; and
- Books are free of gender, ethnic, and socioeconomic bias.

The panel also uses rigorous selection guidelines relating to the presentation of material, including the following: logical presentation and a clear sequence of ideas; appropriate content level for the intended audience; compatible text and illustrations; illustrations that are accurate representations in size, color, and scale; appropriate trim size and format of the book for the subject and audience; and well-organized layout that advances the text. The panel also gives attention to the quality of binding, paper, reproduction, and the appropriateness of typeface.

Each panel member reads all the books, but annotations reflect only the appraisal of the individual panelist whose initials follow at the end of each entry.

Publishers' names appear in abbreviated form; complete names and addresses are available from the Children's Book Council and in standard reference works such as Children's Books in Print. CBC's Member List is available at [www.cbcbooks.org/about/members.html](http://www.cbcbooks.org/about/members.html).

Titles are arranged by subject category. Although some titles are appropriate for more than one category, the books have been placed where their usefulness in science education appears greatest. Panelists have also indicated the National Science Education Standards ([see explanation above](#)) to which the books relate. Where more than one standard is listed, the most applicable standard is given first.

## **About CBC and NSTA**

The Children's Book Council (CBC) is a nonprofit trade organization that encourages the use and enjoyment of books and related literacy materials for young people. The official sponsor of Children's Book Week and Young People's Poetry Week, the CBC supports reading-encouragement programs both independently and with other national and international organizations. The CBC's members are U.S. publishers and packagers of trade books for children and young adults and producers of book-related materials for young people. For more information, see [www.cbcbooks.org](http://www.cbcbooks.org).

The National Science Teachers Association (NSTA) is an organization of science education professionals and has as its purpose the stimulation, improvement, and coordination of science teaching and learning. For further information on NSTA membership and services, call 800-722-NSTA.

Single copies of this list are available for \$2 with a self-addressed 6" x 9" envelope with 83¢ postage to CBC at 12 West 37th St., 2nd fl, New York, NY 10018-7480. 10–24 copies, \$1.50 each; 25 or more copies, \$1 each. Payment must accompany order.