We invite you to explore this year’s list of Outstanding Science Trade Books, which greatly adds to our 44-year history. In the award-winning books below, you’ll find not only traditional science content but engineering and design as well. We hope you’ll enjoy enhancing your spirit of inquiry as you explore science through trade books.

For further information, please visit www.nsta.org/publications/ostb/ and www.nsta.org/recommends/

**Ancient Earth Journal: The Late Jurassic**  
Juan Carlos Alonso and Gregory S. Paul  
Quarto/Walter Foster Jr.
Take a visual tour through the late Jurassic period of geologic time and explore, through beautiful illustrations, the diversity of dinosaurs that inhabited Earth approximately 150 million years ago.

**Animals by the Numbers**  
Steve Jenkins  
HMH Books for Young Readers
Interesting infographics that compare features of various animals in appealing visuals.

**Because of an Acorn**  
Lola M. and Adam Schaefer  
Chronicle Books
Illustrated by Frann Preston-Gannon
Beautifully illustrated story of interconnections in the forest ecosystem.

**A Beetle is Shy**  
Dianna Hutts Aston  
Chronicle Books
Illustrated by Sylvia Long
This intricately illustrated book showcases the fascinating world of beetles and is sure to spark the imagination of readers of all ages.

**Best in Snow**  
April Pulley Sayre  
Simon & Schuster/Beach Lane Books
Descriptive words, minimal text, and breathtaking photos tell the story of snowfall, snow melt, and the seeping of water into the Earth.

**Bubonic Panic**  
Gail Jarrow  
Boyds Mills Press/Calkins Creek
This book combines gruesome photographs with a detailed description of this horrific disease. This is a riveting historical recount of this major breakout.

**About Marine Mammals**  
Catherine Sill  
Illustrated by John Sill  
Peachtree Publishers.
Concise text about marine mammals is supported by full-page illustrations depicting various species in their habitats.

**Ada Lovelace, Poet of Science**  
Diane Stanley  
Illustrated by Jessie Hartland  
Simon & Schuster/Paula Wiseman Books
This is a beautifully illustrated story of a young girl born to the famous poet Lord Byron and mathematically minded Annabella who uses her talents to write the first computer program.

**Ada’s Ideas**  
Fiona Robinson  
ABRAMS
An inspirational story of Ada Lovelace who overcame struggles to pursue her interests in math and science.

**After A While Crocodile**  
Dr. Brady Barr and Jennifer Keats Curtis  
Illustrated by Susan Detwiler  
Arbordale Publishing
Through her journal entries readers follow Alexa, a Costa Rican schoolgirl, as she cares for an American crocodile and then releases him to the wild.
Outstanding Science Trade Books

Charles Darwin’s Around the World Adventure
*Jennifer Thermes*
*ABRAMS*
The biographical path, scientific explorations, and discoveries that encompassed the life of Charles Darwin are detailed in this appropriately aged text and through engaging drawings.

Chasing at the Surface.
*Sharon Mentyka*
*Graphic Arts Books/WestWinds Press*
A pod of stranded orcas is protected and saved by the determined effort of a girl, her friends and community, and scientists.

Circle
*Jeannie Baker*
*Candlewick Press*
Join the bar-tailed godwits as they circle from their breeding grounds in the Arctic to Australia and New Zealand and back again in this beautifully illustrated story.

Cleared for Takeoff
*Rowland White*
*Chronicle Books*
Any reader interested in man’s pursuit of flight will be taken on the ride of a lifetime as all areas related to flight, whether it is technological, historical or related to human interest, are examined in this book.

Day of the Dinosaurs
*Steve Brusatte*
*Quarto/Wide Eyed Editions*
“Step back into a spectacular prehistoric world” and explore the rise and fall of the dinosaurs along with some of their unique defense mechanisms, diets, and environmental habitats during their approximately 187 million year reign on Earth.

Every Breath We Take
*Maya Ajmera and Dominique Browning*
*Charlesbridge*
Through bright photographs and simple text structure, this book examines how air is needed by living creatures and useful for other activities we engage in as well.

Feathered Dinosaurs
*Brenda Z. Guiberson*
*Illustrated by William Low*
Macmillan Children's Publishing Group/Henry Holt
A diverse array of dinosaurs richly illustrated and showing feathers as a major evolutionary development, which gives evidence of the “connection between the feathered dinosaurs and modern birds.”

Florence Nightingale
*Catherine Reef*
*HMH Books for Young Readers/Clarion Books*
An informative biography of Florence Nightingale with a historical context recounting her struggles and contributions to society.

Flying Frogs and Walking Fish
*Steve Jenkins and Robin Page*
*HMH Books for Young Readers*
Walking, leaping, swimming, and other actions are explored to describe how animals move from place to place and survive by escaping predators and catching their own prey.

Giant Squid
*Candace Fleming*
*Illustrated by Eric Rohmann*
Macmillan Children's Publishing Group/Roaring Brook Press
Beautifully illustrated book about the mysterious life of the elusive giant squid.

A Global Warming Primer
*Jeffrey Bennett*
*Big Kid Science*
A straightforward and easy read concerning the impact of humans upon Earth’s climate through the use of a question and answer format that will assist the reader to better understand the “The Science, The Consequences, and The Solutions” of a warming climate.

Glow
*W. H. Beck*
*HMH Books for Young Readers*
An exploration of how living organisms utilize bioluminescence to survive within their environments.
<table>
<thead>
<tr>
<th>Title</th>
<th>Author</th>
<th>Illustrator</th>
<th>Publisher</th>
<th>Description</th>
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<tbody>
<tr>
<td>Good Trick, Walking Stick!</td>
<td>Sheri M. Bestor</td>
<td>Jonny Lambert</td>
<td>Sleeping Bear Press</td>
<td>Through both narrative and expository text features as well as whimsical pictures that convey additional information, the life cycle of a walking stick is examined.</td>
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<tr>
<td>The Great White Shark Scientist</td>
<td>Sy Montgomery</td>
<td>Keith Ellenbogen</td>
<td>HMH Books for Young Readers</td>
<td>Follow a team of researchers led by biologist Greg Skomal as they study the largest and most feared fish, the great white shark.</td>
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<tr>
<td>Grow! Raise! Catch!</td>
<td>Shelley Rotner</td>
<td></td>
<td>Holiday House, Inc.</td>
<td>Rotner takes readers through the farm-to-table process through colorful photos of food and the farmers who produce it.</td>
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<tr>
<td>Hopping Ahead of Climate Change</td>
<td>Sneed B. Collard III</td>
<td></td>
<td>Bucking Horse Books</td>
<td>Highlights the fascinating climate change research of one scientist from the perspective of one species.</td>
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<tr>
<td>I, Humanity</td>
<td>Jeffrey Bennett</td>
<td></td>
<td>Big Kid Science</td>
<td>The story of our place in the universe told through the collective voice of humanity.</td>
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<tr>
<td>If You Are a Kaka, You Eat Doo Doo</td>
<td>Sara Martel</td>
<td>Sara Lynn Cramb</td>
<td>Tilbury House Publishers</td>
<td>Fascinating and fun stories about the role poo plays in different animal adaptions.</td>
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<tr>
<td>Illuminature</td>
<td>Rachel Williams</td>
<td>Carnovsky</td>
<td>Quarto/Wide Eyed Editions</td>
<td>Use a three color lens to explore the world with respect to its diverse habitats, animals that roam by day, and creatures that come out at night.</td>
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<tr>
<td>Insects</td>
<td>Seymour Simon</td>
<td></td>
<td>HarperCollins Children’s Books</td>
<td>Exquisite up-close photographs support the interesting text about the characteristics and classifications of various insect species.</td>
</tr>
<tr>
<td>Inside of a Dog</td>
<td>Alexandra Horowitz</td>
<td>Sean Vidal Edgerton</td>
<td>Simon &amp; Schuster/S&amp;S Books for Young Readers</td>
<td>Understand dogs on a whole new level by exploring how they see, feel, perceive, and communicate with their world.</td>
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<tr>
<td>Manatee Rescue</td>
<td>Nicola Davies</td>
<td>Annabel Wright</td>
<td>Candlewick Press</td>
<td>A girl’s commitment to save an orphaned manatee changes the attitudes of her community.</td>
</tr>
<tr>
<td>Marie Curie for Kids</td>
<td>Amy M. O’Quinn</td>
<td></td>
<td>Chicago Review Press</td>
<td>An inspirational biography of the legendary scientist tailored for young adults, accompanied by dozens of historical photos and activities that explain Curie’s valuable contribution to science.</td>
</tr>
<tr>
<td>Milestones of Flight</td>
<td>Tim Grove</td>
<td></td>
<td>ABRAMS</td>
<td>Soar through time as you read about specific achievements in aviation. Much of this book’s inspiring illustrations come from the Smithsonian’s collection.</td>
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</tbody>
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Natural World
Amanda Wood and Mike Jolley
Illustrated by Owen Davey
Quarto/Wide Eyed Editions
This book allows the reader to create his/her own learning adventure while looking through stunning illustrations and a treasure trove of information about our natural world.

Nefertiti, the Spidernaut
Darcy Pattison
Illustrated by Valeria Tisnés
Mims House
The true story of an investigation to see if a spider could adapt to living in an environment without gravity on the International Space Station and then going back to gravity on Earth.

Next Time You See a Cloud
Emily Morgan
Photos by Judd Patterson, Tom Uhlman, Steven David Johnson, and NASA
NSTA Press/NSTA Kids
Take a closer look at clouds through striking photography and answers to everyday questions.

Notable Notebooks
Jessica Fries-Gaither
Illustrated by Linda Olliver
NSTA Press/NSTA Kids
An overview of how notebooks are used in science with examples from the field.

Octopuses One to Ten
Ellen Jackson
Illustrated by Robin Page
Simon & Schuster/Beach Lane Books
More than a counting book, this book describes the unique characteristics of octopuses through rhyming text and engaging illustrations.

Our Food
Grace Lin and Ranida T. McKneally
Illustrated by Grace Zong
Charlesbridge
Answers to questions such as “why are so many vegetables green?” are asked and answered as children visit a farm and learn about the different types of food we eat through informative text and short, witty poems.

Our Moon
Elaine Scott
HMH Books for Young Readers/Clarion Books
A look at our evolving understanding of Earth’s nearest neighbor from a historical perspective to the most recent discoveries.

Owls!
Laurence Pringle
Illustrated by Meryl Henderson
Boyds Mills Press
Enter the world of Owls through this beautifully illustrated book filled with unusual information about owls from all over the world.

Peeking Under the City
Esther Porter
Illustrated by Andrés Lozano
Capstone Press
The reader is taken on a graphically illustrated journey beneath the city to all of the aspects of life that are found there, ranging from transportation to infrastructure to evidence of long ago.

Platypus
Sue Whiting
Illustrated by Mark Jackson
Candlewick Press
Captivating illustrations accompanied by lyrical language bring readers into the fascinating world of the platypus.

Poop Detectives
Ginger Wadsworth
Charlesbridge
Examines the use of scat detection dogs on land and sea in scientific research.
Radioactive!
Winifred Conkling
Algonquin Young Readers
Science and history are woven together in this chapter book about two important physicists whose contributions are often overlooked.

The Rock and Gem Book
DK
Accurate, colorful illustrations with easy to read descriptions of many common rocks and gems found on Earth. What a great reference tool for any personal or school library!

The Secret Subway
Shana Corey
Illustrated by Red Nose Studio
Random House Children's Books/Schwartz & Wade
Incredibly fascinating illustrations help tell a little known but true story of the first underground subway in New York City. Readers will be captivated by the story itself and the description of how the illustrations were created.

Solving the Puzzle Under the Sea
Robert Burleigh
Illustrated by Raúl Colón
Simon & Schuster/Paula Wiseman Books
This beautifully illustrated biography presents the story of Marie Tharp, the first person to successfully chart the floor of the Atlantic Ocean.

Squirrels Leap, Squirrels Sleep
April Pulley Sayre
Illustrated by Steve Jenkins
Macmillan Children's Publishing Group/Henry Holt.
The actions of squirrels set to rhyme. More detailed explanations of the actions described are included at the end of the book.

Strange, Unusual, Gross & Cool Animals
Animal Planet and Charles Ghigna
Time Inc. Books/Liberty Street
A stunning visual encyclopedia that shares lesser-known information about unique animals.

Super Cool Tech
DK
This uniquely designed book guides readers through a look at cutting edge technology and its secrets. Full-color images, cutaways, and digital artwork make this book visually enjoyable.

The Story of Seeds
Nancy Castaldo
HMH Books for Young Readers/Clarion Books
The impact of modern day science and technology ranging from genetically modified foods to the importance of maintaining seed vaults is examined from the context that seeds have an extremely important job in the world— the production of food.

Super Gear
Jennifer Swanson
Charlesbridge
The future is now! Discover the nano-inventions that are changing our lives.

Treecology
Monica Russo
Photos by Kevin Byron
Chicago Review Press
A delightful introduction to trees, this information-packed resource has activities and observations for nature enthusiasts of all ages.

Under Water, Under Earth
Aleksandra Mizielinska and Daniel Mizielinski
Candlewick Press/Big Picture Press
Simple but mesmerizing illustrations in the book explore mysteries beneath water and earth to captivate the reader’s imagination.

Whoosh!
Chris Barton
Illustrated by Don Tate
Charlesbridge
The biography of a creative NASA engineer who invented one of the most famous water toys is presented through lively text and captivating illustrations.