





by William Caper

Consultant: Michelle Nichols, Master Educator Adler Planetarium & Astronomy Museum Chicago, Illinois



New York, New York

Credits

Cover and Title Page, © Corbis; 4, © Bettmann/CORBIS; 5, © AP Images/Bruce Weaver; 6, NASA Johnson Space Center (NASA-JSC); 7, NASA Johnson Space Center (NASA-JSC); 8, NASA Johnson Space Center (NASA-JSC); 9, © Bettmann/Corbis; 10TL, © Michael S. Yamashita/Corbis; 10BL, NASA Johnson Space Center (NASA-JSC); 10R, NASA Johnson Space Center (NASA-JSC); 11T, © Bettmann/Corbis; 11BL, NASA Johnson Space Center (NASA-JSC); 11BR, © NASA/Space Frontiers/Getty Images/Newscom.com; 12, © Cynthia Johnson//Time Life Pictures/Getty Images; 13, NASA Johnson Space Center (NASA-JSC); 15, © Space Frontiers/Hulton Archive/Getty Images; 16, NASA Johnson Space Center (NASA-JSC); 17, NASA Johnson Space Center (NASA-JSC); 18, NASA Johnson Space Center (NASA-JSC); 19, NASA Johnson Space Center (NASA-JSC); 20, © MPI/Getty Images; 21, NASA Johnson Space Center (NASA-JSC); 22, NASA Johnson Space Center (NASA-JSC); 23, NASA Johnson Space Center (NASA-JSC); 24, NASA Johnson Space Center (NASA-JSC); 25, Courtesy Ronald Reagan Library; 26, NASA Johnson Space Center (NASA-JSC); 27, NASA Johnson Space Center (NASA-JSC); 28T, NASA Johnson Space Center (NASA-JSC); 28B, NASA Johnson Space Center (NASA-JSC); 29T, NASA Johnson Space Center (NASA-JSC); 29B, NASA Johnson Space Center (NASA-JSC); 29 Background, NASA Johnson Space Center (NASA-JSC).

Publisher: Kenn Goin Project Editor: Lisa Wiseman Creative Director: Spencer Brinker Design: Dawn Beard Creative Photo Researcher: Marty Levick

Library of Congress Cataloging-in-Publication Data

Caper, William.

The Challenger Space Shuttle explosion / by William Caper.

p. cm. — (Code red)

Includes bibliographical references and index.

ISBN-13: 978-1-59716-367-5 (library binding)

ISBN-10: 1-59716-367-8 (library binding)

1. Challenger (Spacecraft)—Accidents—Juvenile literature. 2. Space vehicle accidents—United States—Juvenile literature. I. Title.

TL867.C36 2007 363.12'465—dc22

2006030257

Copyright © 2007 Bearport Publishing Company, Inc. All rights reserved. No part of this publication may be reproduced in whole or in part, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from the publisher.

For more information, write to Bearport Publishing Company, Inc., 101 Fifth Avenue, Suite 6R, New York, New York 10003. Printed in the United States of America.

Shuttle nightmare

Contents

Ready to Launch 4
The Space Age Begins 6
The Space Shuttle 8
Challenger's Crew10
A Teacher in Space
Challenger's Mission14
Decision to Launch16
Here We Go18
Liftoff20
What Happened?22
A Nation in Shock24
Flying into the Future26
Profiles
Glossary
Bibliography
Read More
Learn More Online
Index
About the Author 32

oolkids

became

horror

More

coverag

WEDNESDA

Knicks
Bulls
Sting
Wings
Smuggling rap

Ready to Launch

It was the morning of January 28, 1986. The space shuttle Challenger stood on the launch pad at the Kennedy Space Center in Florida. The day was very cold. Despite the weather, a large crowd had gathered to see the launch.

Challenger's crew walked to the launch pad on the morning of January 28, 1986.



The commander of the shuttle was Francis "Dick" Scobee. He spoke to the **NASA** control center by radio.

"Two minutes," Scobee said. *Challenger* was about to liftoff.

As the countdown continued, the seven crew members aboard *Challenger* joked with one another. So far, things were going well. However, in just a few minutes, that would all change.



The Space Age Begins

The **Space Age** began in 1957 when the Soviet Union sent a **satellite** into space. Four years later, the first **astronauts** traveled in **capsules** carried on powerful rockets. These capsules took people into **orbit** around Earth. However, they could be used only once. When the capsules returned to Earth, they splashed down into the ocean.

America's early space travelers flew in Mercury capsules like this one.



In 1972, NASA began developing a better way to carry people into space. Workers designed a new spacecraft called the shuttle. Unlike the capsules, the shuttle could glide back to Earth and land on a runway. Then it could be used again for another **mission**.



Astronaut John Glenn was the first American to orbit Earth in a Mercury capsule.

The first shuttle was named Enterprise, after the spaceship on the TV show Star Trek.

Index

Armstrong, Neil 25
astronauts 6, 8–9, 11, 12, 19, 23, 26
Atlantis 8

Capsules 6–7 **Columbia** 8–9 **crew** 4–5, 9, 10–11, 15, 18–19

Discovery 8, 26, 28

Earth 6–7, 9, 15, 23 Edwards Air Force Base 8, 14 Endeavour 27 Enterprise 7

fuel tank 9, 11, 22–23

Halley's Comet 15 Houston, Texas 21

Jarvis, Gregory B. 11

Kennedy Space Center 4, 14

McAuliffe, Christa 11, 12–13, 14, 29
McNair, Ronald E. 10–11, 29

mission 7, 9, 10–11, 12, 14–15, 16, 26, 28–29

NASA 5, 7, 8, 12–13, 16–17, 21, 24, 26, 29

Onizuka, Ellison S. 10, 15, 18 **O-rings** 22, 26

Reagan, President Ronald 12, 25, 27Resnik, Judith A. 8, 10–11, 19, 28Ride, Sally 25

Scobee, Francis "Dick" 5, 10, 18–19, 28

Smith, Michael J. 10, 19

solid rocket boosters (SRBs) 9, 16, 22–23, 26

Soviet Union 6

space shuttle 4–5, 7, 8–9, 10–11, 12, 14–15, 16–17, 19, 20–21, 22–23, 26–27, 29

Teacher in Space program 12–13, 29

weather 4, 16-17, 22

About the Author

William Caper has written books about history, science, film, and many other topics. He lives in San Francisco, with his wife, Erin, and their dog, Face.

Challenger Space Shuttle Explosion

The countdown had begun. The crew members aboard the space shuttle *Challenger* joked with one another as they waited for takeoff. Then, at 11:38 A.M., the spacecraft thundered off the ground. The launch seemed to be going well.

Suddenly, everything changed. A bright ball of fire flashed in the sky, and thick clouds of white smoke appeared. NASA officials knew the space shuttle was in trouble. Everyone's worst fears came true as *Challenger* broke apart, killing everyone on board—including teacher Christa McAuliffe. The loss stunned people across the world and led to important changes in the space shuttle program.

The Challenger Space Shuttle Explosion

Emergency at Three Mile Island

The Exxon Valdez's Deadly Oil Spill

The Great Chicago Fire

The *Hindenburg* Disaster

Nightmare on the *Titanic*

The Texas City Disaster

The Triangle Shirtwaist Factory Fire

The 2001 World Trade Center Attack



