

Science and Science Fiction

Contents of the CD-ROM I use with my classes

Short Stories

Readings are selected from the following list of short stories covering a wide variety of topics in science fiction.

A Sound of Thunder – Ray Bradbury
Ado – Connie Willis
All You Zombies – Robert A. Heinlein
Article of Faith – Mike Resnick
As Chemist to Chemist – Isaac Asimov
At the Rialto – Connie Willis
Blood Music – Greg Bear
Chip Runner – Robert Silverberg
Desertion – Clifford D. Simak
End of the World – Alma Alexander
Fire Watch – Connie Willis
Flowers for Algernon – Daniel Keyes
Golden Apples of the Sun – Ray Bradbury
Half-Life – Paul Preuss
History Lesson – Arthur C. Clarke
How To Talk To Girls At Parties – Neil Gaiman
Instinct – Lester Del Rey
Last Contact – Stephen Baxter
Light of Other Days – Bob Shaw
Making Light – James P. Hogan
Nightfall – Isaac Asimov
Omnilingual – H. Beam Piper
Pate de Foie Gras – Isaac Asimov
Relativistic Effects – Gregory Benford
Samson in the Temple of Science – Harry Harrison
Schrodinger's Kitten – George Alec Effinger
Temporal Chirality - Brian Addle, Michael J. S. Dewar, Hans Krapp, Till E. Spiegel and (in part) Michel Obb
The Clockwork Atomic Bomb – Dominic Green
The Cold Equations – Tom Godwin
The Curious Case of Benjamin Button – F. Scott Fitzgerald
The Feeling of Power – Isaac Asimov
The Food of the Gods – Arthur C. Clarke
The Last Question – Isaac Asimov
The Minority Report – Philip K. Dick
The Monkey's Paw – W. W. Jacobs

The Nine Billion Names of God – Arthur C. Clarke
The Riddle of the Universe and Its Solution – Christopher Cherniak
The Sentinel – Arthur C. Clarke
The Shangri-La Affair – Lavie Tidhar
The Sidon in the Mirror – Connie Willis
The Star – Arthur C. Clarke
The Variable Man – Philip K. Dick
The Very Slow Time Machine – Ian Watson
There Will Come Soft Rains – Ray Bradbury
Thiotimeline (The Endochronic Properties of Resublimed Thiotimeline) – Isaac Asimov
Too Bad – Isaac Asimov
Understand – Ted Chaing
Waiting for Rain – Mary Robinette Kowal
We Can Remember It for You Wholesale – Philip K. Dick

Science Articles (by topic/application):

Art and special Effects:

Art has been an important aspect of science fiction, not only the illustrations in science fiction stories and the cover art for science fiction magazines, but a major contribution to the movies and today's special effects.

King Kong. An article from *Invention & Technology* about the making of the original movie.

Star Wizards. An article from *Invention & Technology* about special effects in *Star Wars* and *Close Encounters*

To Boldly Paint What No Man Has Painted Before. An article from *Invention & Technology* about Chesley Bonestell who created paintings of other worlds that helped inspire the space program.

Jurassic Park:

Is Jurassic Park possible? These articles relate to the science behind the story.

Ancient DNA

Captured in Amber

Nanotechnology:

Quantum Mechanical Computers

Shamans of Small

Waiting for Breakthroughs

Space Travel:

Isn't It Ionic?

Star Trek:

Beam Me Up

Negative Energy, Worm Holes, Warp Drive
Quantum Teleportation
Star Trek's Slow Start
Where No One Has Gone Before – Chemistry in Star Trek

Star Wars:

How Star Wars Surprised the World

Time Travel:

Build a Time Machine
Quantum Physics of Time Travel