



# NATURE'S MACHINES

*the story of biomechanist*

## MIMI KOEHL



*by Deborah Parks*



JOSEPH HENRY PRESS

**SCHOLASTIC**

# Natures Machines The Story Of Biomechanist Mimi Koehl

**Deborah Parks**



## **Natures Machines The Story Of Biomechanist Mimi Koehl:**

**Nature's Machines:** Deborah Parks,2006-04-30 Mimi Koehl tinkers with machines Some are so tiny they can't be seen by the naked eye and some disappeared millions of years ago But Mimi isn't a mechanic She's a biomechanist Mimi Koehl uses engineering and physics to study the designs of living things that fly swim drift and crawl She loves solving riddles about how creatures from feathered dinosaurs to flying frogs live and move Mimi's curiosity has led her into all kinds of natural neighborhoods She has braved turbulent waters to explore how giant green sea anemones survive crashing waves In Chile while studying seaweeds a rogue wave washed Mimi off one cliff and slammed her into another one But nothing stops her desire for discovery To uncover answers Mimi has attached leashes to microscopic animals and created ingenious models using raspberry gelatin and even Silly Putty Today Mimi searches the world and her imagination for answers to life's challenging mysteries Using insights gained from interviews with her family *Nature's Machines* Deborah A. Parks,2005 Presents the life and career of Mimi Koehl a biochemist who uses engineering and physics to learn how living creatures fly swim drift and crawl *Equestrian* Toney Allman,2013-11-22 Author Toney Allman provides an in depth look at the scientific principles behind equestrian events such as racing dressage hunting endurance events steeplechase and polo Chapters cover physics biomechanics genetics physical training and how tack affects the rider and the horse and the psychology of training Includes graphics to help explain the scientific principles being discussed and a list of sources for further research

**Science** John Michels (Journalist),2008 *Junior High School Library Catalog* ,2007 **A to Z of Women in Science and Math** Lisa Yount,2007 From ancient times to the present day scientifically inclined women in many cultures have had to battle against the traditional belief that men are more cognitively adept than women At times throughout history women were persecuted for their attempts to break down traditional gender barriers Today women scientists and mathematicians must continue to defend the quality of their work and demand the respect they deserve in the mathematical and scientific communities *A to Z of Women in Science and Math* Revised Edition profiles 195 women who fought against these stereotypes throughout history and all over the world to forge new discoveries and theories that would eventually change the way we view science This thoroughly revised book updates the story of each individual to the present day and features 38 new profiles Among the profiles included are those of chemists astronomers geologists environmental scientists and a range of other professions and careers In addition new photographs have been added and the bibliography has been updated Subject indexes allow the reader to search by such professions as microbiology and paleontology Additional subject indexes organize individuals by country of birth country of major scientific activity and year of birth **Senior High Core Collection** Raymond W. Barber,Patrice Bartell,2007 Features annotations for more than 6 200 works in the main volume 2007 and more than 2 400 new titles in three annual supplements published 2008 through 2010 New coverage of biographies art sports Islam the Middle East cultural diversity and other contemporary topics keeps your library's collection as current as today's

headlines School Library Journal ,2006 **American Book Publishing Record** ,2006 **The Publishers Weekly** ,2006 *The Book Review Digest* ,2006 Book Review Index ,2006 Every 3rd issue is a quarterly cumulation

**Children's Books in Print, 2007** ,2006 *Women's Adventures in Science Series* National Academies

Press,2006-04-30 What would it be like to build the first robot that could interact with people Or to study human remains in search of criminal evidence In *Women s Adventures in Science* readers will learn about the trailblazing women who are leaders in a variety of scientific fields from robotics to forensics Each book focuses on the life and work of a woman active in her field today providing readers with insights into the personal and professional paths that led to their careers in science The companion Web site [www.iwaswondering.org](http://www.iwaswondering.org) offers another way to meet these inspiring women scientists The fun interactive site builds on the content of the books and includes games comic strips videos activities and a timeline of women in science

**Beyond Jupiter The Story of Planetary Astronomer Heidi Hammel** Fred Bortz ISBN 0 309 09552 2 paperback 2005 List Price 9 95 Heidi Hammel is a planetary astronomer a scientist who uses the world s most powerful telescopes to learn about planets The giant planets Neptune and Uranus are her specialties She was on the team that first spotted Neptune s Great Dark Spot a raging storm as big as Earth Heidi also led a team of astronomers tracking the Great Comet Crash a spectacular event in which a fragmented comet pounded Jupiter for an entire week There s no telling what Heidi will find when she peers into a telescope That s what makes her work exciting

**Bone Detective The Story of Forensic Anthropologist Diane France** Lorraine Jean Hopping Winner of the NSTA CBC award for Outstanding Science Trade Book for Children 2005 ISBN 0 309 09550 6 paperback 2005 List Price 9 95 Diane France loves bones Every skeleton she meets whispers secrets about the life and death of its owner Diane can hear those secrets because she s a forensic anthropologist a bone detective She has the science skills and know how to examine bones for clues to a mystery Who was this person and how did he or she die Her work helps law enforcement agencies solve crimes and identify victims of mass disasters

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**Gene Hunter The Story of Neuropsychologist Nancy Wexler** Adele Glimm ISBN 0 309 09558 1 paperback 2005 List Price 9 95 Nancy Wexler is a hunter Her quarry is the gene responsible for a fatal inherited sickness called Huntington s disease Finding this gene is a vital step toward preventing or curing Huntington s and thus saving lives Nancy s work takes her all over the world specifically to small villages in Venezuela where the mysterious gene affects more people than anywhere else on the globe Her hunt is a breathtaking race against time not only for others but maybe for herself as well Nancy the daughter of a Huntington s patient is at risk for this

disease Gorilla Mountain The Story of Wildlife Biologist Amy Vedder Rene Ebersole ISBN 0 309 09551 4 paperback 2005 List Price 9 95 Amy Vedder is a wildlife biologist a scientist who studies animals and their behavior She uses her knowledge to save animals whose lives and habitats are threatened Amy once lived in a remote part of central Africa where she helped rescue Rwanda s mountain gorillas from extinction Today Amy travels the world from her home base at New York s Bronx Zoo to the far reaches of Mongolia in Asia Everywhere she goes she teaches people how to appreciate and protect the precious wildlife that surrounds them Nature s Machines The Story of Biomechanist Mimi Koehl Deborah Parks ISBN 0 309 09559 X paperback 2005 List Price 9 95 Mimi Koehl is a biomechanist a scientist who uses engineering and physics to study the designs of living things that fly swim drift and crawl She loves solving riddles about how creatures from feathered dinosaurs to flying frogs live and move To uncover answers Mimi has attached leashes to microscopic animals and created ingenious models using raspberry gelatin and even Silly Putty Her research helps us better understand the mechanics of the plants and animals around us People Person The Story of Sociologist Marta Tienda Diane O Connell ISBN 0 309 09557 3 paperback 2005 List Price 9 95 Marta Tienda is a sociologist a scientist who studies human society Numbers are the tools she uses to uncover fascinating information about people and their behavior As the daughter of an illegal Mexican immigrant Marta understands the pain of growing up poor When her family had to pick crops to earn money Marta saw firsthand the tough conditions that migrant workers had to endure She vowed to use her creativity strong spirit and positive attitude to empower those who are less fortunate Today Marta s expertise is helping government leaders create equal opportunities for millions of people Robo World The Story of Robot Designer Cynthia Breazeal Jordan D Brown ISBN 0 309 09556 5 paperback 2005 List Price 9 95 Cynthia Breazeal is a roboticist a scientist who designs builds and experiments with robots Armed with electronic gadgets software programs and her endless imagination she creates lifelike machines that can respond to the world around them Why create robots like these Cynthia can picture a future where sociable robots exist to benefit people She works hard every day to turn that dream into a reality Space Rocks The Story of Planetary Geologist Adriana Ocampo Lorraine Jean Hopping ISBN 0 309 09555 7 paperback 2005 List Price 9 95 Planetary geologist Adriana Ocampo s imagination and can do attitude have led her to a life of science adventures She helped find the missing Crater of Doom a hole blasted out of the Earth by a killer space rock 65 million years ago when the dinosaurs died out Now she s searching the world for the material that came from that crater Between rock digs she explores other planets through the electronic eyes of NASA s robotic spacecraft Strong Force The Story of Physicist Shirley Ann Jackson Diane O Connell ISBN 0 309 09553 0 paperback 2006 List Price 9 95 Shirley Ann Jackson sees the unseen She is an expert in the invisible particles that make up everything in the universe including you Shirley Ann Jackson is a theoretical physicist a scientist who studies the subatomic world using only paper pencils computers and the most important tool of all her imagination Her passion for science blossomed during her childhood with bumblebee experiments and go cart races But it s her talent for math and her drive to

succeed that have taken her career in amazing directions Shirley uses her knowledge of electrons neutrinos and other particles of matter to better the lives of others from solving important technology problems to teaching college physics to making nuclear power plants safer A born leader Shirley has always seized opportunities and broken down racial barriers not only for herself but for others Strong Force is the compelling story of an African American trailblazer and her science Compelling and captivating this true story of adventure traces the life of a an African American Trailblazer and her science Compelling and captivating this true story of adventure traces the life of a young bee collector who lived her dream of becoming a world renowned physicist

## **Natures Machines The Story Of Biomechanist Mimi Koehl** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Natures Machines The Story Of Biomechanist Mimi Koehl**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Natures Machines The Story Of Biomechanist Mimi Koehl Introduction**

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