

## The Tunguska Event Mystery

During the early morning of June 30, 1908, a powerful explosion is reported in a remote location near the Tunguska River in Siberia, Russia. Miles away, windows break, people are knocked off their feet, and for weeks, skies are aglow. It comes to be known as the Tunguska Event, and many wonder whether the blast is related to a volcano, meteorite, or comet—or even from a secret experiment gone awry. Unfortunately, none of the theories is unanimously accepted. In the city of Bern, a scientist begins investigating the glowing mystery. He begins inquiring about the strange light in the skies over Europe and western Russia, but finds himself left with more questions than answers. As theories circulate that the explosion was most likely caused from a meteorite, the scientist lets his great mind run wild—a decision that brings him to an exciting epiphany that changes everything and reveals his identity to the world. *Symbiosis 1908* is the intriguing story of what really could have happened on June 30, 1908, with subtle and unforeseen consequences for humanity.

Scientific breakthroughs are often regarded with suspicion, especially those that diverge substantially from established theories. New ideas are tested by scientists around the world to ensure that they hold up to scrutiny. This book takes a look at the instances when, despite these precautions, the scientific community got it wrong. The book includes the most infamous cases of fraud and famous mistakes that initially had scientists fooled.

An amazing compendium of the weird and the wonderful. The range of entries is extraordinary, from the bizarre to the horrific, and from the spooky to the just plain confounding.

Readers can join the author, who was invited by the Russian Academy of Sciences to take part

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in its annual Tunguska Expedition to investigate the largest meteorite impact in recorded history and who travelled the world in search of other meteorite impact sites, on a fascinating adventure to the most significant meteor sites of the untamed and desolate Russian interior. Marco Altamirano critiques the modern concept of nature to chart a new trajectory for the philosophy of nature. He reveals the modern origins of the epistemological configuration of nature, where a subject confronts an object in space (and at time  $t$ ), and wonders about her mode of access to that object. After critiquing the spatial orientation of this concept of nature, Altamirano shows that a new concept of time is necessary to reinstall the subject within its concrete ecology. Altamirano goes on to deploy conceptual resources excavated from Deleuze, Guattari, Foucault and Leroi-Gourhan to show how technology, which bypasses the nature-artifice distinction, is an essential dimension of the philosophy of nature. Ultimately, this book draws the profile of a concept of nature based on time and technology that escapes the nature-artifice distinction that has mired the philosophy of nature for so long.

On 30 June 1908 a mysterious fireball exploded in the Siberian sky and flattened 2,000 square kilometres of the remote Tunguska forest. As no crater and no material from outer space were ever found, a meteorite could not have caused the Tunguska explosion. So what did? This 'grand dame of science mysteries' soon turns 100 but continues to seduce scientists and charlatans alike, all hoping to explain what caused the explosion. The scientists' suspects include a comet, an asteroid, a mini black hole, a rock of antimatter, a mirror matter asteroid, and a methane gas blast from below. X-files-type explanations include an alien spacecraft, a laser beam fired by extraterrestrials in an attempt to communicate with the earthlings, and an early experiment in nuclear physics which got out of hand. Numerous websites, conspiracy

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theories and sensational TV documentaries on the Fireball abound. In a fast-moving and non-technical narrative *The Tunguska Fireball* discusses all theories and then analyses the evidence to point an accusing finger at a prime suspect.

The instant #1 New York Times and USA Today best seller by Karen Kilgariff and Georgia Hardstark, the voices behind the hit podcast *My Favorite Murder!* Sharing never-before-heard stories ranging from their struggles with depression, eating disorders, and addiction, Karen and Georgia irreverently recount their biggest mistakes and deepest fears, reflecting on the formative life events that shaped them into two of the most followed voices in the nation. In *Stay Sexy & Don't Get Murdered*, Karen and Georgia focus on the importance of self-advocating and valuing personal safety over being 'nice' or 'helpful.' They delve into their own pasts, true crime stories, and beyond to discuss meaningful cultural and societal issues with fierce empathy and unapologetic frankness. "In many respects, *Stay Sexy & Don't Get Murdered* distills the *My Favorite Murder* podcast into its most essential elements: Georgia and Karen. They lay themselves bare on the page, in all of their neuroses, triumphs, failures, and struggles. From eating disorders to substance abuse and kleptomania to the wonders of therapy, Kilgariff and Hardstark recount their lives with honesty, humor, and compassion, offering their best unqualified life-advice along the way." —Entertainment Weekly "Like the podcast, the book offers funny, feminist advice for survival—both in the sense of not getting killed and just, like, getting a job and working through your personal shit so you can pay your bills and have friends." —Rolling Stone At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

This popular science book shares the fascination of the Tungus Event, a major mystery

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of the 20th century, in a factual and informed way. It provides "on-the-ground" descriptions of the site and explains the findings and the puzzlement of international scientists who have investigated it over the decades. After a brief and readable overview of comets, meteors, the sun and the solar system, the author ponders the range of possible explanations for the "great Siberian meteorite." The research is up to date, factual and scientific. While making no absurd claims to solving the puzzle, the author studies some intriguing clues in NASA's orbit diagrams for Comet Encke, and he is bold in discussing the possible causes of what was the greatest natural explosion in recorded history. As he points out, [Hypotheses] include rogue asteroids, mini black holes and even alien intervention....These explanations are not entirely equal to the facts. In the unique case of the Tunguska event, there was wholesale destruction to the mighty taiga woodlands but none of the debris that one would expect should exist from the body itself. Evidence like a strewn field of meteorite debris or meteoric dust on the trees and ground were never found, nor were any craters, in the area beneath the site of the fireball nor anywhere along the path it took. There are no craters because the Tunguska Cosmic Body (TCB) did not hit the ground. Atmospheric anomalies prior to the dramatic appearance of the fiery body puzzlingly occurred for several days, adding to the enigma. There are just a handful of English-language books on this subject. The most recent, *The Tunguska Mystery*, by the Russian Rubstov (Astronomers Universe, Springer Science 2009) is authoritative but highly technical and hard going for the

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general reader. Mr. Engledew instead tells the story in a balanced and engaging style. A memoir and a history, *Grampa's Left Arm* tells the story of Jakob Tirjan and Annie Kaufold, immigrants who settled in southeastern Pennsylvania in the early 1900's. Their village on the Austro-Hungarian eastern frontier faded into history when the province of Galicia came under Polish rule after WWI. The Author's curiosity about the origins of his name led him to explore Eastern Europe's troubled twentieth century history and the societal transformations which shaped his political perspective of the United States. Ethnic clashes, the Red Scare, the KKK, fair wages and strikes, even the Business Plot were all heated topics around the dining table. These arguments planted the seeds of curiosity about the origin of his name. No one in his family knew for sure if Grampa Tirjan was really Austrian, as he claimed, or exactly where he had come from. But they all agreed that greedy captains of industry and politicians had their own interests at heart and working men and women had to look out for themselves. Jim Tirjan's post-WW II all-American boyhood echoed many of the major events of the century: wars, the Depression, Communist spies, the isolation of rural life, lives painfully disrupted in modern industrial society and our fascination with and dependence on the automobile. Grampa Tirjan labored at Baldwin Locomotive Works while Grandma Annie ran a boarding house. Jim's mother bought a new 1931 Plymouth for \$530 with housekeeping wages. Jim picked string beans with prisoners and earned a master's degree. His story is told with humor and compassion and a great appreciation for the

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forces of history we ignore at our peril. Was Grampa Tirjan really an Austrian? Indeed and then some.

In her own time, she was recognized as a woman of unparalleled power. Beautiful and intelligent, she was portrayed as alternately a ruthless murderer and helpless victim, the most loving mother and the most powerful woman of the Roman empire, using sex, motherhood, manipulation, and violence to get her way, and single-minded in her pursuit of power for herself and her son, Nero. This book follows Agrippina as a daughter, born in Cologne, to the expected heir to Augustus's throne; as a sister to Caligula who raped his sisters and showered them with honors until they attempted rebellion against him and were exiled; as a seductive niece and then wife to Claudius who gave her access to near unlimited power; and then as a mother to Nero—who adored her until he had her assassinated. Through senatorial political intrigue, assassination attempts, and exile to a small island, to the heights of imperial power, thrones, and golden cloaks and games and adoration, Agrippina scaled the absolute limits of female power in Rome. Her biography is also the story of the first Roman imperial family—the Julio-Claudians—and of the glory and corruption of the empire itself. Are you ready to learn something new? The 2nd volume in the Knowledge Stew Guide series continues the quest to find the most interesting facts in the world. Take a journey through topics that range from science, history, and geography to food, entertainment, and business and learn the facts behind the facts. Discover things you might not have

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known about the moon, or why we're taller in the morning and shorter at night. Find out about a strange amusement park, a secret vault at Mt. Rushmore, or the world's most expensive coffee. These things, plus plenty more, are waiting for your brain to take them in. Just don't forget your spoon. For even more facts, check out Volume 1 of Knowledge Stew: The Guide to the Most Interesting Facts in the World.

Explore the universe and immerse yourself in the story of our solar system, planet, and life through meteorites. "Meteorite is a treasure"--Wall Street Journal Meteorites have long been seen as portents of fate and messages from the gods, their fiery remains inspiring worship and giving rise to legends that have persisted for millennia. But beyond the lore, meteorites tell an even greater story: that of our solar system. In Meteorite, geologist Tim Gregory shows that beneath the charred crusts of these celestial stones lies a staggering diversity of rock types. Their unique constituents, vibrant colors, and pungent smells contain thrilling tales of interstellar clouds, condensing stardust, and the fiery collisions of entire worlds. Gregory explores the world of meteorites to uncover new insights into what our solar system was like before our sun became a star, into the forging of our planet, and into the emergence of life on it. Humans have long looked to the skies for answers to big questions. Meteorite reveals how science is finally arriving at those answers.

Humans receive the vast majority of sensory perception through the eyes and ears. This non-technical book examines the everyday physics behind hearing and vision to

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help readers understand more about themselves and their physical environment. It begins with

In a revolutionary new theory, Dr. Robert Foot of the University of Melbourne argues that meteorites composed of mirror matter could impact with the Earth without leaving any ordinary fragments. Indeed, the theory seems to provide a simple explanation for the puzzling Tunguska event--the blast which destroyed a huge area of Siberian forest in 1908. While scientists have attributed this explosion to an ordinary meteorite, no traces of such an object have ever been found. Moreover, there are frequent smaller such events, occurring on a yearly basis, which are even more puzzling. Foot's new book lays clear the scientific case for mirror matter. It describes the fascinating evidence for its existence including, astronomical observations suggesting that most of our galaxy is made from a new form of matter--dark matter. It explains puzzling Jupiter sized planets only a few million miles from their host star, and the mysterious slowing down of spacecraft in our solar system. Remarkably, it is also possible that Pluto might even be a mirror world, which would explain various anomalous features of its orbit. Perhaps the most important consequence of all this--if true--is the possibility of actually extracting the mirror matter from the Tunguska impact site and other such sites on earth. Invisible asteroids and other cosmic bodies made of a new form of matter may pose a threat to Earth, agrees a noted Australian physicist. But the mirror matter idea has not attracted a huge following among physicists. In a recent UPI article, Howard



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Georgi of Harvard University says, "Foot's ideas have not attracted a huge following in the community that cares about these things, perhaps because the problems they solve, while interesting, are not the most critical puzzles that we are wrestling with." Nevertheless, mirror matter, if it exists, would be a completely new type of material with a potentially huge commercial value. Its scientific value would be of no less importance. FROM THE BACK COVER Nearly 50 years ago it was discovered that the fundamental particles, such as the electron and proton, have 'left-handed' interactions; they do not respect mirror symmetry. This experimental fact motivates the idea that a set of 'mirror particles' exist. The left-handedness of the ordinary particles can then be balanced by the right-handedness of the mirror particles. In this way mirror reflection symmetry can exist but requires something profoundly new. It requires the existence of a completely new form of matter called 'mirror matter'. Remarkably the mirror matter theory is capable of simply explaining a large number of contemporary puzzles in astrophysics and particle physics. The evidence ranges from observations suggesting that most of the matter in the Universe is invisible, to unexpected properties of ghostly particles called 'neutrinos'. This book explains this fascinating theory and its evidence at a level accessible to the non-specialist.

In this original and thought-provoking book, philosopher Michael Hampe sets out to help us understand happiness. The right and proper path to a happy life is a topic that has been debated for millennia. There are many theories, from those of ancient

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philosophy to those of modern neuroscience, but can any one of them ultimately tell us how the objective of a perfectly fulfilled life might be achieved? By telling the story of two friends—the unhappy philosopher Stanley Low and the happy gardener Gabriel Kolk—alongside a presentation of four essays that examine prominent and very plausible theories of happiness, Michael Hampe illustrates that there is no easy answer to our search for unadulterated bliss. This is an erudite and illuminating investigation into one of mankind's most elusive quests, one that allows us to reconsider what it means to be happy.

A New York Times Notable Book of the Year, a Washington Post Best Book of the Year Spanning the era between the Chicago World's Fair of 1893 and the years just after World War I, and constantly moving between locations across the globe (and to a few places not strictly speaking on the map at all), *Against the Day* unfolds with a phantasmagoria of characters that includes anarchists, balloonists, gamblers, drug enthusiasts, mathematicians, mad scientists, shamans, spies, and hired guns. As an era of uncertainty comes crashing down around their ears and an unpredictable future commences, these folks are mostly just trying to pursue their lives. Sometimes they manage to catch up; sometimes it's their lives that pursue them.

This “accessible and always entertaining” (Booklist) combination of history, pop science, and in-depth reporting offers a fascinating account of the asteroids that hit Earth long ago and those streaming toward us now, as well as how prepared we are

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against asteroid-caused catastrophe. One of these days, warns Gordon Dillow, the Earth will be hit by a comet or asteroid of potentially catastrophic size. The only question is when. In the meantime, we need to get much better at finding objects hurtling our way, and if they're large enough to penetrate the atmosphere without burning up, figure out what to do about them. We owe many of science's most important discoveries to the famed Meteor Crater, a mile-wide dimple on the Colorado Plateau created by an asteroid hit 50,000 years ago. In his masterfully researched *Fire in the Sky*, Dillow unpacks what the Crater has to tell us. Prior to the early 1900s, the world believed that all craters—on the Earth and Moon—were formed by volcanic activity. Not so. The revelation that Meteor Crater and others like it were formed by impacts with space objects has led to a now accepted theory about what killed off the dinosaurs, and it has opened up a new field of asteroid observation that is brimming with urgency. Dillow looks at great asteroid hits of the past and modern-day asteroid hunters and defense planning experts, including America's first Planetary Defense Officer. Satellite sensors confirm that a Hiroshima-scale blast occurs in the atmosphere every year, and a smaller, one-kiloton blast every month. While Dillow makes clear that the objects above can be deadly, he consistently inspires awe with his descriptions of their size, makeup, and origins. Both a riveting work of popular science and a warning to not take for granted the space objects hurtling overhead, *Fire in the Sky* is, ultimately, a testament to our universe's celestial wonders.

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As end-of-the-world scenarios go, an apocalyptic collision with an asteroid or comet is the new kid on the block, gaining respectability only in the last decade of the 20th century with the realisation that the dinosaurs had been wiped out by just such an impact. Now the science community is making up for lost time, with worldwide efforts to track the thousands of potentially hazardous near-Earth objects, and plans for high-tech hardware that could deflect an incoming object from a collision course – a procedure depicted, with little regard for scientific accuracy, in several Hollywood movies.

Astrophysicist and science writer Andrew May disentangles fact from fiction in this fast-moving and entertaining account, covering the nature and history of comets and asteroids, the reason why some orbits are more hazardous than others, the devastating local and global effects that an impact event would produce, and – more optimistically – the way future space missions could avert a catastrophe.

The Tunguska Mystery Springer Science & Business Media

Describes the weather conditions space travelers might expect throughout the solar system, including on the Sun, on each of the planets, on Saturn's moon Titan, and on the dwarf planet Pluto.

The Complete Star Atlas: A Practical Guide to Viewing the Night Sky is the all-in-one guide to the stars. It is a must-have book for anyone who wants to learn the constellations, find the brightest stars, and view the best deep-sky objects. Perfect for all stargazers! This 160-page book from Michael E. Bakich, retired Astronomy

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magazine Senior Editor, introduces readers, from novice to experts, to observing the night sky with accurate, easy-to ready star maps optimized for use with red flashlights. Maps are accompanied by informative articles and full-color photographs to show everything you can see in the night sky with the naked eye or with a small telescope. "Singularity" is a swift, gripping novel with a goose-pimple mix of scary science and near-future action. An excellent debut from Bill DeSmedt - and I'll be looking forward to his next one " - GREG BEAR, "New York Times" bestselling author "One of the best debuts of the year " - Barnes & Noble's Explorations "DeSmedt veers an action-packed thriller into perilous realms of black hole physics. The combination of adrenaline and intellect sizzles." - DAVID BRIN, "New York" Times bestselling author ""Singularity" juggles Clancy, Crichton and The Da Vinci Code. An innovative concept for an end-of-the-world thriller, with convincing research and locomotive pacing." - KEVIN J. ANDERSON, "New York Times" bestselling author Synopsis: "June 30th, 1908" - In the remote Tunguska region of Siberia, the most violent cosmic collision in recorded history flattened ancient forests over an area half the size of Rhode Island. Yet after a hundred years of international scientific research the cause of this impact remains a mystery. A MAVERICK ASTROPHYSICIST Jack Adler thinks he's fingered the culprit: a submicroscopic black hole, smaller than an atom, heavier than a mountain, older than the stars. What's more, that fantastic object is still down there, deep inside the Earth, burrowing through the mantle in an ever-decaying orbit that will end only when it has

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devoured the entire planet. A ROOKIE SECRET AGENT Marianna Bonaventure is tracking three missing scientists suspected of involvement in weapons of mass destruction research. The trail leads to Rusalka, the luxurious floating corporate headquarters of billionaire Russian industrialist Arkady Grishin. Determined to prove herself, Marianna creates an elaborate ruse in order to infiltrate the megayacht - a dangerous gambit that requires the coerced cooperation of a rather special civilian ... AN UNCANNY CONSULTANT Jonathan Knox is one of the country's most sought-after analysts; his knack for intuiting hidden relationships among seemingly disparate events serves his Fortune-50 clients well. But when Marianna compels the reluctant Knox to join her undercover mission, he must grapple with puzzles of a whole different order of magnitude. Against violent and cunning opposition, the three of them unearth a scheme to capture the submicroscopic black hole that caused the Tunguska Event and use its awesome power to transform the world - or end it altogether. Bill DeSmedt's debut is a tour-de-force of breakneck plotting, complex characters, and cutting-edge science. In the tradition of Michael Crichton and Greg Bear, "Singularity" weaves a richly detailed and intelligent tale, meticulously researched and elegantly told.

An asteroid transformed Mars from a lush planet with rivers and oceans into a bleak and icy hell. Is Earth condemned to the same fate, or can we protect ourselves and our planet from extinction? In his most riveting and revealing book yet, Graham Hancock examines the evidence that the barren Red Planet was once home to a lush

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environment of flowing rivers, lakes, and oceans. Could Mars have sustained life and civilization? Megaliths found on the parched shores of Cydonia, a former Martian ocean, mirror the geometrical conventions of the pyramids at Egypt's Giza necropolis. Especially startling is a Sphinx-like structure depicting a face with distinguishable diadem, teeth, mouth and an Egyptian-style headdress. Might there be a connection between the structures of Egypt and those of Mars? Why does NASA continue to dismiss these remarkable anomalies as "a trick of light"? Hancock points to the intriguing possibility that ancient Martian civilization is communicating with us through the remarkable structures it left behind. In exploring the possible traces left by the Martian civilization and the cosmic cataclysm that may have ended it, *The Mars Mystery* is both an illumination of our ancient past and a warning--that we still have time to heed--about our ultimate fate.

Nikola Tesla was a major contributor to the electrical revolution that transformed daily life at the turn of the twentieth century. His inventions, patents, and theoretical work formed the basis of modern AC electricity, and contributed to the development of radio and television. Like his competitor Thomas Edison, Tesla was one of America's first celebrity scientists, enjoying the company of New York high society and dazzling the likes of Mark Twain with his electrical demonstrations. An astute self-promoter and gifted showman, he cultivated a public image of the eccentric genius. Even at the end of his life when he was living in poverty, Tesla still attracted reporters to his annual

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birthday interview, regaling them with claims that he had invented a particle-beam weapon capable of bringing down enemy aircraft. Plenty of biographies glamorize Tesla and his eccentricities, but until now none has carefully examined what, how, and why he invented. In this groundbreaking book, W. Bernard Carlson demystifies the legendary inventor, placing him within the cultural and technological context of his time, and focusing on his inventions themselves as well as the creation and maintenance of his celebrity. Drawing on original documents from Tesla's private and public life, Carlson shows how he was an "idealist" inventor who sought the perfect experimental realization of a great idea or principle, and who skillfully sold his inventions to the public through mythmaking and illusion. This major biography sheds new light on Tesla's visionary approach to invention and the business strategies behind his most important technological breakthroughs.

Just after 7 AM on June 30th 1908 a massive air blast occurred over Tunguska in Siberia - the Tunguska event - caused by a meteorite or comet fragment. The blast released the same amount of energy as 185 Hiroshima nuclear bombs. The object is thought to have been around 120 feet in diameter. It will happen again, it's just a question of where and when... Robert Spire, environmental lawyer, newly recruited to the UK's GLENCOM - Global Environmental Command - Unit is propelled into a roller coaster adventure through London, America and the Bahamas as he searches for the cause of some mysterious whale deaths. As the clues unfold, nothing can prepare him



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or the world, for the cataclysm that is about to unfold. Roberts Spire's greatest adventure may be the world's last... MYSTERIOUS WHALE DEATHS... When the World's largest ever creature - a blue whale - dies in front of Robert Spire on his local Welsh beach, the UK's Department of the Environment and local population are ill prepared. When a second whale washes up dead on Myrtle Beach on the opposite side of the Atlantic, the scientific community starts asking questions. A QUEST FOR METEORITE FRAGMENTS... Environmental lawyer Robert Spire; newly recruited to the UK's Global Environmental Command Unit - GLENCOM, flies over to South Carolina to investigate. Whilst there, he teams up with marine biologist Dr Sally Rivea, also assigned to the case. Meanwhile, ex-marine Travis Dexter is on the run in Nevada after he discovers the body of his employer - philanthropist Julian Smithies - murdered in his home. The only object missing; a recently discovered, rare and valuable meteorite. A FUTURE GLOBAL CATAclysm... On the island of Exuma In the Bahamas, four sport divers make a startling discovery at the bottom of Mystery Cave blue hole. Sixty miles offshore in the Caribbean Sea, drilling on the Proteus oil rig turns to disaster as the drill penetrates something hard on the ocean floor. Dr Rivea, at a loss to explain the high levels of the mineral olivine discovered in the whale's tissue samples, accompanies Spire to the Caribbean in search of answers, but what they discover doesn't bear thinking about... "Si Rosser's new novel IMPACT POINT is an outstandingly good and enjoyable read. It welds mystery and adventure into a very well-

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written thriller. I recommend it 100%" - Author, TV presenter and Priest Lionel Fanthorpe

The purpose of the book is a dual one: to detail the nature and results of Tunguska investigations in the former USSR and present-day CIS, and to destroy two long-standing myths still held in the West. The first concerns alleged “final solutions” that have ostensibly been found in Russia or elsewhere. The second concerns the mistaken belief that there has been little or no progress in understanding the nature of the Tunguska phenomenon. All this is treated by the author in a scholarly and responsible manner. Although the book does present certain unusual findings of Russian and Ukrainian scholars, it is important to stress that this is not a sensational book; it is, rather, a serious exposition of the results of rational investigations into a difficult scientific problem. We are demonstrating the true complexity of the problem that is now entering its second century of existence. Simple meteoritic models cannot explain all the characteristics of this complicated event, and therefore certain so-called “unconventional hypotheses” about the nature of the Tunguska explosion are to be considered as well.

What happened to the Tunguska forest? Scientists have been searching for answers since it happened over 100 years ago! Could the answers lay in the paranormal? There was a massive explosion on the 30th June 1908. Flattening 2,000 square kilometres of Siberian forest, the exact cause of the incredible blast is still unknown. Some have

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suggested that the event resulted from a meteor slamming into the Earth's surface. But no impact crater has ever been found. Other people have suggested that the meteor imploded in the sky above the forest. To this day, it is still the largest recorded impact event to strike the Earth. To this day, the explosion is still something of a mystery. Thousands of scientific papers have attempted to get to the bottom of exactly what happened that day. With a force comparable to a nuclear blast, the destructive nature of the event is astounding. On the day, 80 million trees were knocked down, and the sound was heard across the continent. In the days afterwards, the night skies were lit up with strange lights. It was just the start of the strange series of events that would add a paranormal, perhaps even extra-terrestrial dimension to the cataclysmic event. Explosions such as these have the power to end all life on the planet. There's little that can be done when giant meteors rain down from above. The Tunguska Event demonstrates just how powerful such events can be but also shows us what might happen if we survive. Aside from the existential threat, the fallout from the blast has left a lasting impact not just on mainstream science, but on those who dig deeper below the surface. In this book, we will examine the explosion itself and the aftereffects that have defied explanation. Trying to figure out what caused the Tunguska Event is one thing, attempting to understand how this explosion affected us as a planet is another matter entirely. Could it be that the answers lay elsewhere... Scroll back up and grab your copy today!

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Discusses the Tunguska meteorite, the disappearance of the crew of the Mary Celeste, UFOs and alien abductions, Stonehenge, Atlantis, Kaspar Hauser, the Bermuda Triangle, the treasure of Oak Island, King Arthur, spontaneous human combustion, and crop circles

Leading specialists in various disciplines were first invited to a multidisciplinary workshop funded by ICSU on the topic to gain a better appreciation and perspective on the subject of comet/asteroid impacts as viewed by different disciplines. This volume provides a necessary link between various disciplines and comet/asteroid impacts.

\*Includes pictures \*Includes accounts of the event by eyewitnesses and scientists studying it \*Includes a bibliography for further reading "On 30 June 1908, a powerful blast ripped open the sky near the Podkamennaya Tunguska River in Russia and flattened more than 2,000 square kilometers of forest. Eyewitnesses described a large object tearing through the atmosphere and exploding before reaching the ground, sending a wave of intense heat racing across the countryside. At an estimated 3 to 5 megatons of TNT equivalent, it was the biggest impact event in recorded history." - Mark Pelow, author of "Rock samples suggest meteor caused Tunguska blast" When the atomic bombs were used against Hiroshima and Nagasaki in August 1945, they ushered in a new era of power so destructive that nuclear weapons have not been used in any combat since then. The pictures of the devastated cities demonstrated the sheer strength of such weapons, and the impact was alarming enough to lead to efforts not

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only to control the proliferation of such weapons but to denuclearize altogether. It was hard for people to comprehend the power behind nuclear weapons in 1945, but that was due in great measure to the fact that most people were unfamiliar with the Tunguska event, which took place over 35 years earlier in a sparsely populated region of Siberia. On June 30, 1908, an explosion with an epicenter near the Tunguska River flattened an area of about 2,000 square miles, destroying tens of millions of trees and killing countless numbers of wildlife. Miraculously, there were no recorded human casualties as a result of the since named Tunguska event, which generated the energy equivalent of 1,000 of the atomic bombs dropped on Hiroshima. The shockwave alone would have measured 5.0 on the Richter scale. It goes without saying that had the Tunguska event happened in a major metropolitan area, it would've been one of the biggest catastrophes in history, but due to the isolated area and the turbulent affairs in Russia during the World Wars and the Bolshevik Revolution, the event was mostly ignored during the early 20th century, and it is still often overlooked today, even as scientists continue to study it in an attempt to explain what happened. Although conspiracy theories have been proffered (as with other mysterious events), it is widely believed today that the explosion was caused by an asteroid or a comet, but people still continue to debate certain aspects of the blast, and Tunguska is constantly cited as a reason it is necessary to identify and monitor objects in space near Earth. The Tunguska Event chronicles the history and mystery behind the massive explosion,

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including eyewitness accounts and theories over what caused it. Along with pictures and a bibliography, you will learn about the Tunguska event like never before, in no time at all.

Fifty years ago, no one could explain mountains. Arguments about their origin were spirited, to say the least. Progressive scientists were ridiculed for their ideas. Most geologists thought the Earth was shrinking. Contracting like a hot ball of iron, shrinking and exposing ridges that became mountains. Others were quite sure the planet was expanding. Growth widened sea basins and raised mountains. There was yet another idea, the theory that the world's crust was broken into big plates that jostled around, drifting until they collided and jarred mountains into existence. That idea was invariably dismissed as pseudo-science. Or "utter damned rot" as one prominent scientist said. But the doubtful theory of plate tectonics prevailed. Mountains, earthquakes, ancient ice ages, even veins of gold and fields of oil are now seen as the offspring of moving tectonic plates. Just half a century ago, most geologists sternly rejected the idea of drifting continents. But a few intrepid champions of plate tectonics dared to differ. The Mountain Mystery tells their story.

Hurling through the atmosphere, in a blaze of light and reverberating percussions, the arrival of a meteorite on Earth is a magical, rare, and precious sight. These characteristics have accordingly ensured a long, yet often controversial history. For all this, meteorites are cosmic messengers. They tell us about the entire history of the

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solar system, their story carrying us from the very earliest moments, when solid material first began to form in the solar nebula. Indeed, meteorites played a key role in the origins of Earth's oceans and the genesis of life. Meteorites additionally tell us about the origin and evolution of the asteroids, and they tell us about impacts upon the Moon as well as the volcanic history of planet Mars. Much is known about the structure and chemistry of meteorites, but for all this, they still harbor many scientific mysteries that have yet to be resolved.

On June 30, 1908, a mysterious explosion erupted in the skies over a vast woodland area of Siberia. Known as the Tunguska Event, it has been a source of wild conjecture over the past century, attributed to causes ranging from meteors to a small black hole to antimatter. In this imaginative book, Michael Hampe sets four fictional men based on real-life scholars—a physicist (Günter Hasinger and Steven Weinberg), a philosopher (Paul Feyerabend), a biologist (Adolf Portmann), and a mathematician (Alfred North Whitehead)—adrift on the open ocean, in a dense fog, to discuss what they think happened. The result is a playful and highly illuminating exploration of the definition of nature, mankind's role within it, and what its end might be. *Tunguska, Or the End of Nature* uses its four-man setup to tackle some of today's burning issues—such as climate change, environmental destruction, and resource management—from a diverse range of perspectives. With a kind of foreboding, it asks what the world was like, and will be like, without us, whether we are negligible and the universe random, whether

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nature can truly be explained, whether it is good or evil, or whether nature is simply a thought we think. This is a profoundly unique work, a thrillingly interdisciplinary piece of scholarly literature that probes the mysteries of nature and humans alike.

At 7.14 a.m on 30 June 1908 a huge fireball exploded in the Siberian sky. A thousand times the force of the Hiroshima bomb, it flattened an area of remote Tunguska forest bigger than Greater London, forming a mushroom cloud that almost reached into space. What was it? A century on, and no one knows for sure. Suspects range from comets or mini black holes into the realms of science fiction and conspiracy, a laser beam fired by extra-terrestrials or an early nuclear experiment. This is an exhilarating ride around one of science's greatest mysteries....

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