



SCIENCE CHANNEL JULY 2010 HIGHLIGHTS

*All times ET/PT

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The marking "(wt)" designates a working title and may be subject to change.

**Denotes programs with artwork available for download at
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SPECIAL PROGRAMMING

L.D.R.S.

World Premiere

Sunday, July 5 at 9 PM

[TV-PG]

Once a year the most fearless, hardcore of all amateur rocket builders from every corner of the country gather at the premiere, high-power rocketry event in the country – Large Dangerous Rocket Ships (L.D.R.S.). For five days they launch more than 2,000 of the biggest cutting-edge homemade and hand-designed rockets on Earth. Propelling tens of thousands of feet in the air in mere seconds, these rockets travel into the sky at mind-blowing speeds and so high that the FAA has to shut down airspace over the event. All year long these rocket enthusiasts strategize, plan, tinker, and toy with science and engineering to produce some of the most insanely high-powered rockets anyone has ever seen.

THROUGH THE WORMHOLE WITH MORGAN FREEMAN

World Premiere

Eight-Part Series Airs Wednesdays at 10 PM

[TV-G]

****Artwork Available**

Exclusively, with Academy Award®-winning actor Morgan Freeman, Science Channel is introducing exciting, mind-blowing new ideas about who we are, where we come from and what lies beyond Earth in this provocative all-new series. From the latest work at NASA to the newest theories of academics and researchers, the series explores how astrobiology, string theory, quantum mechanics and astrophysics are pushing the boundaries of how we understand the universe and our place in it.

<p>Wednesday, July 7 10 PM World Premiere [TV-G]</p>	<p><i>How Did We Get Here?</i> Everywhere we look... in the most hospitable of environments and in the most extreme... we find life. On Earth, life exists everywhere. Yet we have only ever found life on our planet. How did the stuff of stars come together to create life as we know it? What do we really mean by "life"? And will unlocking this mystery help us find life elsewhere?</p>
<p>Wednesday, July 14 10 PM World Premiere [TV-G]</p>	<p><i>Are We Alone?</i> Aliens almost certainly do exist. So why haven't we met them yet. It turns out we're only just developing instruments powerful enough to scan for them, and science sophisticated enough to know where to look. As a result, the race is on to find the first intelligent aliens. But what would they look like, and how would they interact with us if we met?</p>
<p>Wednesday, July 21 10 PM World Premiere [TV-G]</p>	<p><i>What are We Really Made of?</i> Our understanding of the universe and the nature of reality itself is on the verge of a seismic shift. The goal of the Large Hadron Collider at CERN is nothing less than recreating the first instants of creation, when the universe was unimaginably hot and long-extinct forms of matter sizzled and cooled into stars, planets, and ultimately, humans. What we find could validate our long-held theories about how the world works and what we are made of. Or, all of our notions about the essence of what is real will fall apart.</p>
<p>Wednesday, July 28 10 PM World Premiere [TV-G]</p>	<p><i>Beyond The Darkness?</i> Thirty years ago, scientists first realized that some unknown dark substance was affecting the way galaxies moved. Today, they think there must be five times as much dark matter as regular matter out there. But they have no idea what it is—only that it's not made of atoms, or any other matter we are familiar with. And dark matter is not the only strange substance in the universe— newly discovered force, called dark energy, seems to be pushing apart the very fabric of the cosmos.</p>

WHAT ON EARTH?: OCEANS – Part One

World Premiere, Tuesday, July 6 at 10 PM

WHAT ON EARTH?: OCEANS – Part Two

World Premiere, Tuesday, July 13 at 10 PM

[TV-G]

Science Channel transports viewers on a journey to uncover new information about the awe-inspiring complexity, beauty and power of Earth's oceans. This two-part special explores how the oceans hold the very key to all life within a vast, interconnected ecosystem. From the diversity and significance of microscopic plankton to the sleek power of the Ocean's top predators, **OCEANS** joins expeditions of discovery that take viewers to tropical coasts, to the shadowy depths of the sea, and to meet complex and mysterious marine life.

POWERING THE FUTRE

Network Premiere

Monday, July 19 and Tuesday, July 20

[TV-G]

****Artwork Available**

As the crisis in the Gulf deepens, the ongoing search for viable alternate energy sources is even more urgent. But, navigating the complex web of options can be both complicated and confusing. Discovery Channel and Science Channel take an in-depth look at the most important challenge facing the world today: the future of energy use. This four-hour special series guides viewers to a greater understanding of the fundamental impact of energy on our lives. Hosted by Dr. M.A. Sanjayan, lead scientist at The Nature Conservancy, the special closely examines where our energy will come from, how we can create a clean, limitless, secure supply of energy -- and how it will be delivered to our homes, businesses and schools in the next 50 years.

<p>Monday, July 19 9 PM Network Premiere [TV-G]</p>	<p><i>The Energy Revolution</i> Sanjayan explores the beginnings of a shift in energy use that will change the world. Whether for national security, the economy, or the health of our planet, there are as many drivers for change as there are technologies vying for a top spot. The hope is for a silver bullet to solve the problem all at once; this episode looks at innovative technologies that could allow us to break our dependence on fossil fuels.</p>
<p>Monday, July 19 10 PM Network Premiere [TV-G]</p>	<p><i>The Energy Planet</i> Starting from an offshore oil platform in the Gulf of Mexico, Sanjayan looks at how the abundance of the planet's energy fuels every aspect of life on Earth. From wind, water, the sun, volcanoes and hurricanes, to the smallest cells to the tallest trees, Earth has the natural energy to power the planet but mankind is not using it. What can humans learn from the creation of the natural world that will help create energy?</p>
<p>Tuesday, July 20 9 PM Network Premiere [TV-G]</p>	<p><i>Striking a Balance</i> We are bombarded daily with conflicting messages about energy from sources with vastly different agendas and motives. This episode filters out politics and special interests by looking at numbers: How many people will be on the planet by 2050 and how much energy will we need? What happens if we grow</p>

	and consume at our current rate? This episode helps viewers grasp how much energy we consume and how much we'll need in the future.
Tuesday, July 20 10 PM Network Premiere [TV-G]	<i>Leading the Charge</i> Unlikely characters and companies are leading the charge in an energy sea change. The U.S. Navy, China, the Empire State Building, or your next-door neighbor – when it comes to energy, these unlikely forces are slashing carbon footprints and propelling the new economy. But it's happening around the world faster than in the United States. From highly efficient wind turbines to cutting-edge solar cells, the U.S. has an unprecedented track record for discovering the technologies to break our fossil fuel addiction, but is not developing and deploying those on American soil.

ONGOING SERIES

BUILD IT BIGGER

Series Airs Thursdays at 9 PM

[TV-G]

****Artwork Available**

Back for a fourth season, host Danny Forster traverses the globe examining jaw-dropping and life-altering feats of engineering in the Science Channel fan-favorite series **BUILD IT BIGGER**. Forster, a Harvard trained professional architect, brings viewers inside the planet's most astounding and innovative engineering projects. From the largest cantilever on earth hanging 650 feet above Singapore to rerouting 16 miles of river to construct the world's most powerful hydroelectric plant outside Rio de Janeiro to New Orleans's new, two-mile storm surge barrier, each project not only changes the city's infrastructure dramatically but also improves life for the city's inhabitants.

Thursday, July 1 10 PM World Premiere [TV-G]	<i>Port of Rotterdam</i> The Dutch Port of Rotterdam is the biggest in the Western Hemisphere. But with 90-percent of today's products shipped by container it's straining to meet demand. The port must expand quickly and with nowhere else to build, Danny Forster is going behind-the-scenes as the Dutch are mobilizing the biggest dredging fleet in history to turn eight square miles of North Sea into a mega-port that will triple container capacity by 2013.
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HOW IT'S MADE

Series Airs Fridays at 9 PM

[TV-G]

From holograms and fiber optics to chocolate and hockey sticks, viewers will learn how many of the everyday objects that we seldom stop to think about were created. In each episode of this series, viewers follow the objects from its parts to a finished object and see the factories that produce the products.

HOW DO THEY DO IT?

Series Airs Fridays at 10 PM

[TV-G]

Ever wonder how that GPS System you got from your wife this holiday season actually works? Or, how engineers fit all that horse power in the Ferrari you wish you had gotten with the GPS? Science Channel's popular series **HOW DO THEY DO IT?** is providing answers to these questions and more about Ferraris, GPS systems, mega freeways, champagne, jumbo jets, gravity suits, LED televisions, electricity and other popular everyday or exotic items.

<p>Friday, July 2 10 PM U.S. Premiere [TV-G]</p>	<p><i>Tales from the Black Stuff, Silk and In the Can</i> How do they make the classic Irish stout? How do silkworms make gun powder bags & cloths? How do they can soup?</p>
<p>Friday, July 9 10:30 PM U.S. Premiere [TV-G]</p>	<p><i>Fire Extinguishers and Cruise Liners</i> How do phosphates put out fires? How do they refuel and resupply a cruise liner?</p>
<p>Friday, July 16 10 PM U.S. Premiere [TV-G]</p>	<p><i>Aircraft Tires, Six Shooters and Fever Pitch</i> How do airplane tires get their grip? How do they fire the fastest gun in the West? How do grounds crews lay artificial turf?</p>
<p>Friday, July 23 10 PM U.S. Premiere [TV-G]</p>	<p><i>Soft as Sponge and The Knowledge</i> How do they dive for sponges? How do cabbies know their way around sprawling metropolises?</p>
<p>Friday, July 30 10 PM U.S. Premiere [TV-G]</p>	<p><i>Money Movers, Catch of the Day and Amazing Grace</i> How do they move cash safely and securely? How do they land big game fish? How do bagpipes make music?</p>

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