

# SCINEMA

## INTERNATIONAL SCIENCE FILM FESTIVAL 2019

### SECONDARY SCHOOL PROGRAM

RUN TIME 3 hours 7 minutes

**WHY IS BLUE SO RARE IN NATURE? | IT'S OKAY TO BE SMART** (United States)  
8:26 minutes

**Directed by** Joe Nicolosi  
**Produced by** Jordan Husmann, Stephanie Noone, Amanda Fox  
**Written by** Joe Hanson, Ph.D

You might have heard that there's no such thing as blue in nature. Well, that's not really true - there are blue rocks, blue sky, and blue water, but blue animals are few and far between. In this video, we'll look at butterflies to help us learn how living things appear blue, and why this beautiful hue is so rare in nature.

**SPACE TO EXPLORE** 13:58 minutes

Natalie Panek, an aerospace engineer, pilot, and avid explorer, has spent her life focused on her biggest dream - to be the first to set foot on another planet. On an outdoor adventure to the Mars-like terrain of Moab, Utah, she searches to reconcile life's stumbles, redirections, and challenges in the pursuit of space travel as she designs the next Mars rover. In the face of sky-high arches and pinnacles, breathtaking views, and a canopy of stars, it's easy to believe the sky has no limits.

**JEREMY THE LEFTY SNAIL AND OTHER ASYMMETRICAL ANIMALS** (United Kingdom)  
15 minutes  
Festival Entry

**Produced by** Dr Robert P Cameron and John Andrew Cameron

This is the fascinating story of Jeremy, one in a million snail whose shell coiled to the left rather than to the right.

**WILD MEDICINE - ANIMALS' SUPERPOWERS** (Germany) 52:27 minutes

**Directed and written by** Heiko De Groot  
**Produced by** Doclights GmbH

Animals have superpowers that we humans can only dream of. Some re-grow their limbs after they have lost them, others can go into hibernation for months without losing muscle, how do they do this? Their skills could help humans against Alzheimer's, heart attack and osteoporosis, but these superpowers are still a mystery. In this documentary, scientists visit eight research projects in Europe and America, uncovering how animals can help us to save human lives and highlighting the importance of biodiversity.

**GOOD IN THE MACHINE** (United Kingdom)  
14:41 minutes

**Directed by** Colin Ramsay, James Uren  
**Produced by** Colin Ramsay  
**Written by** Colin Ramsay, James Uren, Beth Singler

Good in the Machine asks how can we make "good" AI, what does it mean for a machine to be ethical, and who or what is the agent of the machine? Third in a quartet of short documentary films, in partnership with Cambridge University and international AI experts, *Good in the Machine* boldly questions the origins of our own morality and the interplay between artificial agency and our own moral compass.

**SUSTAINABLE NATION** (Israel) 60 minutes  
English, Hebrew, Other (subtitles)

**Directed by** Micah Smith  
**Produced by** Raphael Shore, Rebecca Shore  
**Written by** Micah Smith, Rebecca Shore, Fernanda Rossi, Baruch Goldberg

Sustainable Nation follows three innovators who are taking valuable lessons learned from Israel's water shortage to bring sustainable water solutions to an increasingly thirsty planet. This film highlights the relationship between food, energy and water, and how solving these enormous challenges can help free the world, from life-threatening poverty, illness and lack of opportunity.

**KESSLER SYNDROME: WHAT HAPPENS WHEN SATELLITES COLLIDE?** (Canada)  
13:31 minutes

**Directed and written by** Asher Isbrucker

Of all the man-made satellites in Low Earth Orbit, 95% are space junk - rocket thrusters, derelict satellites, and most of all, fragments of debris from collisions and explosions. All this debris poses a potential threat to the future of space travel if we don't find a way to clean it up before it's too late. Kessler Syndrome, the threat of cascading orbital debris fallout, an environmental crisis that's almost completely invisible to us, but which may carry dire consequences for our infrastructure and the future of spaceflight if left unchecked.

**SMART SLIME?** (United Kingdom) 10 minutes  
Award For Scientific Merit

**Directed by** Juliette Martineau

It's neither plant, animal or fungus, but a giant single cell that crawls around eating dead matter. Beautiful and mesmerizing time lapse videography, Smart Slime? introduces us to the quirky work of two high profile slime researchers.

**Jury comment:** *Exceptional technical detail and a great way to explain the network of a cell.*

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