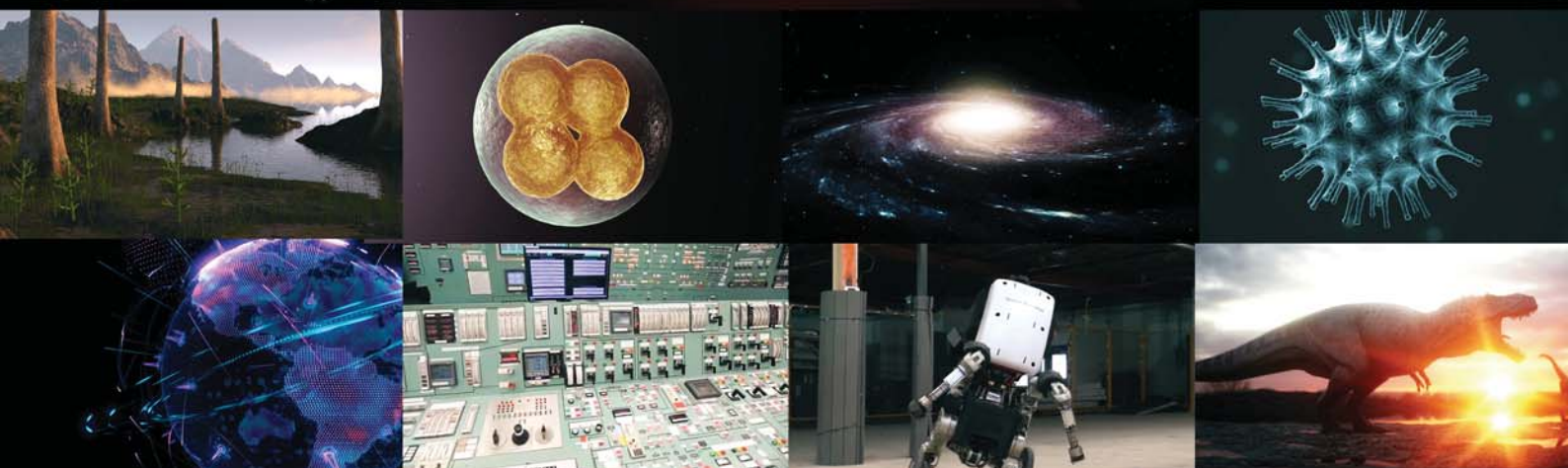


UNEARTII



Take an in-depth journey into the worlds of science, space and technology, unearthing new information about discoveries from our past, to visions of the future.

We explore the finite to the infinite, searching for new worlds and rediscovering the old ones.

8x 60 min

4K

UNEARTH

LIFE

Beyond

Earth

Life Beyond Earth looks at the possibility of life evolving in the oceans of distant worlds including places within our own solar system. What kind of microbial life could exist? Would this life resemble anything like DNA or carbon based lifeforms?

The question is no longer *if*, but *When*?



With interviews from exobiologists and experts in astrophysics, we will develop an insight into these fascinating questions. Would life mimic our own or something entirely alien?

With 3D animation and visualisations, we will explore the alien environments, the microbes and viruses that might exist; events that shape evolutionary processes over time to more evolved multi cell creatures and what would be required for the emergence of intelligence?

With the number of planets now being observed, why hasn't the Search for Extra-Terrestrial Intelligence, located any radio or other signal sources or is mankind truly alone?

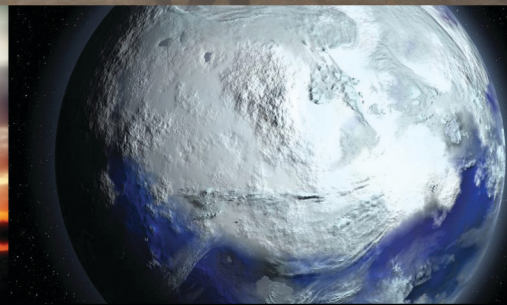
All these and other questions will be asked and the answers speculated upon, in Life Beyond Earth.

UNEARTH

The Next Great
EXTINCTION
Event

Extinction: a planet-wide and rapid reduction of the bio-diversity of life on earth and in its oceans.

**There have been five in our planet's history...
Are we about to experience the 6th?**



Has the industrialization of the planet by humans and the release of carbon and other pollutants into the atmosphere, brought us to the tipping point of another great event or is this an unavoidable planetary phenomenon intrinsic to our planet's DNA?

With interviews from experts in their fields, we endeavour to find out how fragile this planet is and what the coming decades look like as we encroach on the Next Great Extinction Event.

UNEARTH *Amber*

A paleontologist's window
into the past discovering
100 million year old treasures.



With the latest techniques of modern science
new discoveries are being made now, expanding
our knowledge of millennia long gone.

With interviews from paleontologists and technicians;
how they reveal ecosystems of early animals and plants
from 230 million years ago to modern times,
through the unique 3-D preservation
potential of fossil tree resin or amber.

UNEARTH

A.I.

Artificial Intelligence:
Creating the code for consciousness.

**The evolution of thinking machines
and how they are changing our lives.**



With interviews from scientists and engineers, programmers and futurists; dispelling the fear of homicidal robots. Turning algorithms into useful tools of reasoning and understanding to improve and conserve our future now.

UNEARTH Fusion

HARNESSING THE POWER OF THE STARS

**Building the ultimate
energy source for the planet**



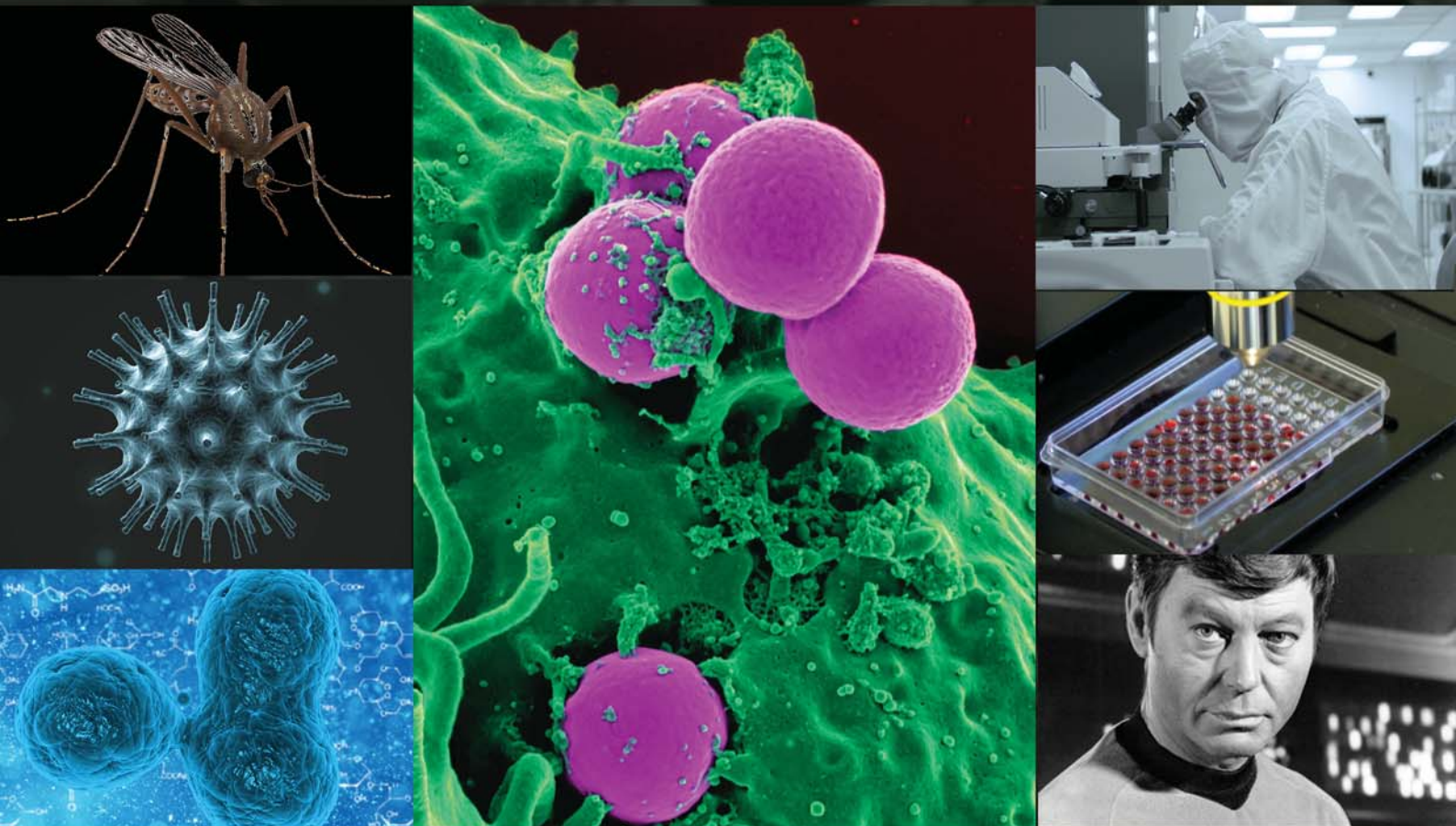
We take a brief tour of the science and engineering behind the concept of fusion power and then catch up with the Multi National efforts underway to build the first proof of concept test reactor in France that may lead to abundant, low cost, clean energy for the entire planet.

UNEARTII


germ warfare

The battle against the superbugs

How science is fighting the rapidly emerging threat of antibiotic resistant superbugs.



Biospectroscopy one of the weapons in the arsenal at Monash University; researching and trialing methods to identify and battle antibiotic resistant sepsis and malaria with technology akin to Dr McCoy's "Tricorder".



UNEARTH ICE DRAGONS OF ANTARCTICA

Antarctica; the 7th continent home to penguins and ice. Once mighty forests grew and great dinosaurs roamed the wilds.



Learn of the recent finds revealing new and unique dinosaur species, and some of the old favourites.

A continent shrouded in ice and snow slowly giving up it's secrets locked in the ground.

UNEARTH NUCLEAR 2.0

Is it time to rethink nuclear power as part of the renewable energy mix in combating global climate change?

Looking at the facts and feasibility of next generation nuclear power for electricity and hydrogen production plus its contribution to mitigating global climate change.

Fossil fuels; coal, gas and oil are altering the planet at unprecedented speeds. Renewables: wind, solar, wave biomass and geo thermal all have their part to play However only Nuclear technology has the capability for base load power to shift the world from coal and oil to a zero carbon and hydrogen economy.

With the success of the anti nuclear movement and several accidents, the nuclear power industry has a bad rap. However not all is what it seems.

