

STARMUS

TRIBUTE TO STEPHEN HAWKING
BEYOND THE HORIZON

June 27 - July 2, 2016
Tenerife, Canary Islands, Spain

PROGRAM



STARMUS FESTIVAL III

Beyond the Horizon
Tribute to Stephen Hawking
June 27-July 2, 2016

STARMUS 2016 VENUE

Piramide de Arona

The Arona Pyramid is one of the largest auditoriums in Tenerife, with seating for 1600. Located inside the Mare Nostrum tourist complex, it has hosted some of the largest and most spectacular events ever held on the islands.



PROGRAM

Monday, June 27th

Session Chair: Jim Al-Khalili

15:00 Opening Ceremony

15:30 David Gross (Nobel Laureate)
The Great Challenges For Physics

15:50 Brian Green
String Theory and the Nature of Reality

16:10 Robert Wilson (Nobel Laureate)
Discovering the Big Bang Radiation

16:30 Alfred McEwen
Searching for life on Mars and Europa

16:50 Brian Cox
Communicating Science in the 21st century

17:10 Special guest: Anthony McCarten

17:15 COFFEE BREAK

18:00 Barry Barish
Einstein, Black Holes and a Cosmic Chirp

18:20 Robert J. Sawyer
Predicting -- and Preventing -- The Future: Science Fiction, Our Sneak Peek at Possible Tomorrows

18:40 Peter Schwartz
Scenarios for the future of Artificial Intelligence: Will the dream become a nightmare?

19:00 Joel Parker

Pluto, Comets, and the Kuiper Belt Connection: The Discoveries and Legacies of the New Horizons and Rosetta Missions

19:20 Steve Balbus

Why did fish leave the sea?

19:40 Eric Betzig (Nobel Laureate)

All Things Great and Small: The Role of Telescopes and Microscopes in Understanding Our Universe and Ourselves

20:00 End of Session**21:30 WELCOME PARTY**

Tuesday, June 28th

Session Chair: Jill Tarter**15:00 Brian Schmidt (Nobel Laureate)**

Dark Dark Universe

15:20 Roger Penrose

Before the Beginning and Beyond Eternity: a New Perspective on Cosmology

15:50 Chris Rapley

Climate Change; What Future will Create?

16:10 Discussion between Jill Tarter and Neil deGrasse Tyson

Intelligent Life in the Universe

16:40 Eugene Kaspersky

Dark ages of Cyber Security

17:00 Special Performance: - Secret Equation that Explains Everything by David Zambuka**17:15 COFFEE BREAK**

- 18:00 Informal Symposium - *The future of space exploration by space explorers*** by Alexei Leonov, Rusty Schweickart, Claude Nicollier, Sergey Volkov, Michael Lopez Alegria, Garrett Reisman, Roman Romanenko
- 19:00 Edvard Moser and May Britt Moser (Nobel Laureates)**
The brain's map of local space and its memory system
- 19:20 Francois Englert (Nobel Laureate)**
On the origin of mass: The history and scope of a discovery
- 19:40 Carolyn Porco**
Cassini at Saturn: The Journey and the Legacy
- 20:00 End of Session**
- 21:30 STAR PARTY with Brian Eno**
Anathema (Unplugged) with Special Guests

Wednesday, June 29th

- 15:00 Stephen Hawking Medal Ceremony**
Joined by Stephen Hawking, Brian May, Alexei Leonov and Garik Israelian
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Session Chair: Brian Cox

- 15:15 Stephen Hawking**
A Brief History of Mine
- 15:45 Brian Eno**
At the Crossroads of Art and Science
- 16:15 Joseph Stiglitz (Nobel Laureate)**
Growing inequality: Laws of Nature or Laws of Men?
- 16:45 Martin Rees**
From Mars to the Multiverse – the Post-Human Future

17:15 COFFEE BREAK

18:00 Special Performance : MC Hawking

18:20 Elizabeth Blackburn (Nobel Laureate)
Adventures at the Ends – of Chromosomes

18:50 Rusty Schweickart
Reflections on 15 Years of Planetary Defense

19:10 Adam Riess (Nobel Laureate)
Exploding Stars and The Accelerating Universe

19:30 Discussion between **Richard Dawkins and Steve Balbus** - *A Biologist and an Astrophysicist in Conversation about Evolution*

19:50 Danny Hillis
The Age of Entanglement

20:10 The 3D Universe Introduced by **Brian May**

20:15 End of Session

21:30 GALA DINNER at Hotel Vincci la Plantación del Sur

Thursday, June 30th

Live Transmission from La Palma

15:30 GTC Round Table: 108´



Friday, July 1st

SONIC UNIVERSE CONCERT

16:00 Sarah Brightman & Tenerife Symphony Orchestra

17:00 COFFEE BREAK

18:00 *The Warped Side of the Universe*

Hans Zimmer Composer and Performer

Paul Franklin Visual Effects: Science and Art

Kip Thorne Black Holes

Guest Artists: *Brian May*

19:30 BREAK

21:00 Chris Hadfield *Around the World in 92 Minutes*

Chris Hadfield & Rick Wakeman *Space Oddity* (David Bowie)

Chris Hadfield & Rick Wakeman *Starman* (David Bowie)

Rick Wakeman *Life on Mars* (David Bowie)

Rick Wakeman & Guest Musician STARMUS

21:45 Closing Ceremony

22:00 ANATHEMA

23:00 End of the concert