

Programme of the festival screenings and the award evening

December 1st, festival screenings and talks

11:00 – *Era uma vez... A Vida* (50') @ Cinemateca Júnior | Salão Foz

12:15 – Cinemateca Screening (under confirmation the final program) (60') @ Cinemateca Júnior | Salão Foz

13:30 – *Life on Us* (52') @ Cinemateca Júnior | Salão Foz

14:30 – *The End* from the series *The Beginning and the End of the Universe* (79') @ Cinemateca Júnior | Salão Foz

16:15 – *The C-Word* (91') @ Cinemateca Júnior | Salão Foz

18:00 – Shorts 1 (47') @ Cinemateca Júnior | Salão Foz

- *Getting Ready for the Pluto Flyby* from the series *BBC Newsnight*
- *Detecting Gravitational Waves*
- *Asteroid Impact Mission*
- *Handshake with an Astronaut*
- *Esocast 76 – A Polarised View of Stellar Magnetism* from the series *Esocast*

19:00 – *Is Binge Drinking Really that Bad?* (60') @ Cinemateca Júnior | Salão Foz

20:15 – *Venus Twilight Experiment* (31') @ Cinemateca Júnior | Salão Foz

20:45 – Opening Cocktail @ Cinemateca Júnior | Atrium

21:30 – Opening Ceremony (90') @ Cinemateca Júnior | Salão Foz

- *Dimitri: the Child Who Wanted to Walk at All Costs* from the series *Grey Matter*
- *Water* from the series *10 Things to Know About...*

December 2nd

11:00 – Cinemateca Screening (under confirmation the final program) (60') @ Cinemateca Júnior | Salão Foz

13:00 – *Chernobyl 30 Years After – The Suppressed Disaster* (47') @ Cinemateca Júnior | Salão Foz

14:00 – *Lenguru, The Lost World* (87') @ Cinemateca Júnior | Salão Foz

15:45 – *River's Edge: Part 1 & 2 from the series Silent Witness* (120') @ Cinemateca Júnior | Salão Foz

18:00 – *Brain Power – The Key to Consciousness, A Journey Into the Stuff of Thoughts* (58') @ Cinemateca Júnior | Salão Foz

19:00 – Talk @ Palácio da Foz

20:45 – *The Himalayas, The Abode of Snow from the series Planet Ice* (51') @ Cinemateca Júnior | Salão Foz

22:00 – *Gay or Straight, is it a choice?* (52') @ Cinemateca Júnior | Salão Foz

December 3rd

12:15 – *Bodytech from the series 10 Things to Know About... + Fat is bad for your Health. Or is it? from the series Grey Matter* (51') @ Cinemateca Júnior | Salão Foz

13:30 – *Era uma vez... A Vida* (50') @ Cinemateca Júnior | Salão Foz

15:00 – Cinemateca Screening (under confirmation the final program) (60') @ Cinemateca Júnior | Salão Foz

16:15 – *The Chateau of Chambord* (52') @ Cinemateca Júnior | Salão Foz

17:30 – *The Prodigal Son: from the series The Specialists* (44') @ Cinemateca Júnior | Salão Foz

18:30 – *Britain's Nuclear Secrets* (79') @ Cinemateca Júnior | Salão Foz

20:00 – Shorts 2 (38') @ Cinemateca Júnior | Salão Foz

– *The Ocean Sampling Day 2014 – A Global Scientific Effort To Study Our Ocean*

– *Textiles Against Pollution*

– *Nanomedicine from the series One Minute of Biomedicine*

– *Tissue Engineering from the series One Minute of Biomedicine*

– *From Star trek to Shining Light: Introducing Professor Barnet*

– *Fado And Ear Folds from the series This Is Mathematics*

– *Microfluidics and Microreactors*

20:45 – *The First Eight Weeks from the series Countdown to Life* (60') @ Cinemateca Júnior | Salão Foz

22:00 – *David Attenborough's Light on Earth* (52') @ Cinemateca Júnior | Salão Foz

December 4th Awards Evening

18:30 – Closing Cocktail @ Pavilhão do Conhecimento – Centro Ciência Viva | Atrium

19:30 – Award Ceremony @ Pavilhão do Conhecimento – Centro Ciência Viva | Auditorium

20:15 – Keynote: **Professor Mark Ferguson** @ Pavilhão do Conhecimento – Centro Ciência Viva | Auditorium

Title of keynote: “**Alligators , Sex and Scars – unexpected discoveries in biomedical research and their commercial applications**”

Summary

Professor Mark Ferguson will describe how a research programme investigating the developmental basis for normal and cleft palate formation lead to research on alligators and crocodiles. Alligators and crocodiles develop in an egg and have a roof of their mouth like humans. Alligator eggs incubated at 30 degrees centigrade develop into 100% females and those at 33 degrees centigrade into 100% males. This phenomenon of temperature dependent sex determination is widespread amongst reptiles and has major implications for conservation, farming, evolutionary theories of dinosaur extinction and manipulating the sex of chickens. If you operate on an early alligator embryo it heals perfectly with no scar whereas operations or accidents to adults result in scarring. Scarring is a significant human problem, for example, from burn injuries to children. Understanding the cellular and molecular differences between scar free and scar forming healing has allowed the development of potential pharmaceuticals to reduce human scarring.

Finally, the pace of scientific discovery and its applications are ever increasing in all fields – life sciences, ICT, Energy etc. This makes it vitally important to engage society in such advances and to stimulate informed discussion about, for example, future technology regulation. Film makers play an important role in engaging the public about the many important facets of scientific advances.