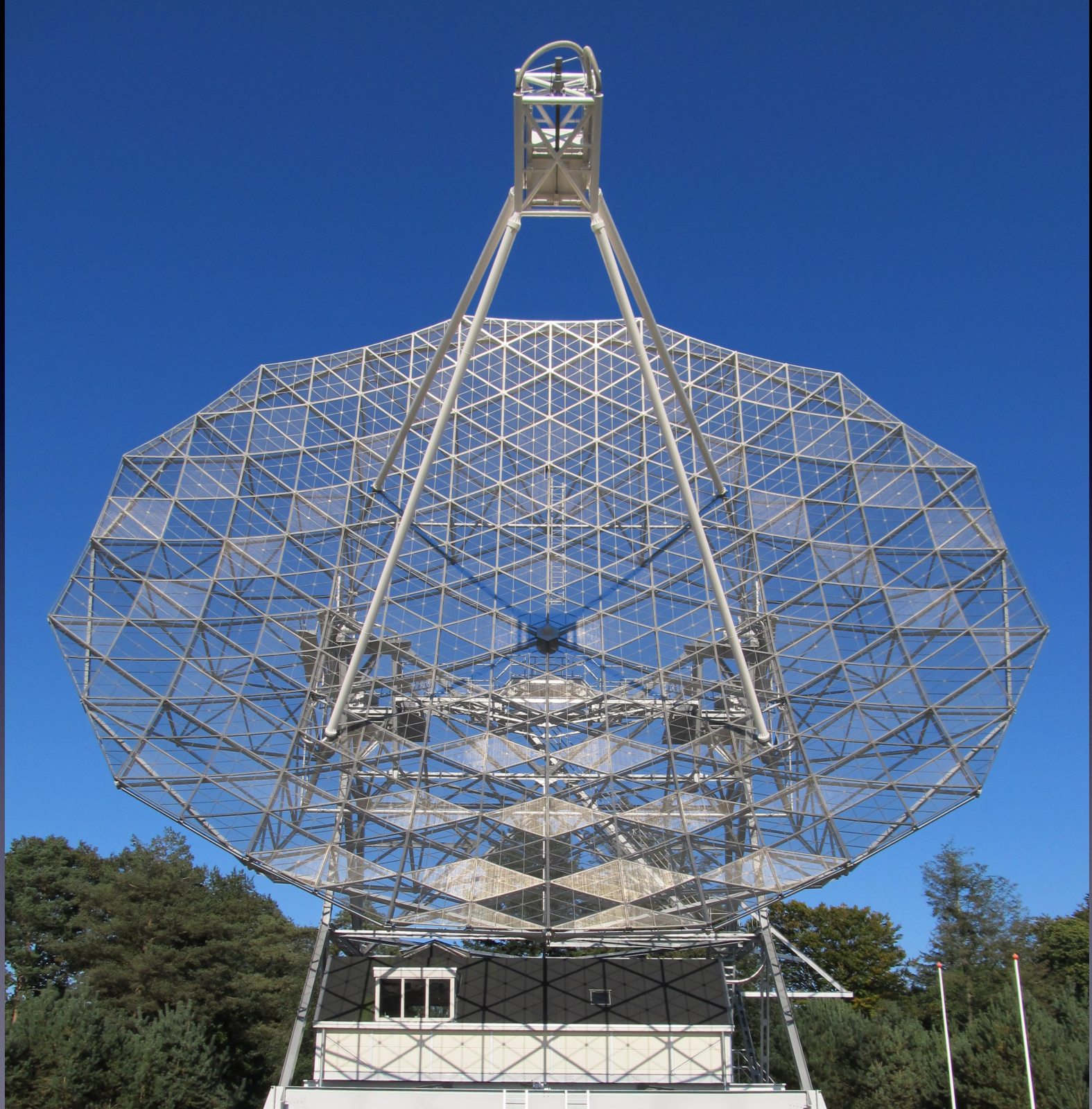


Daniela de Paulis

COGITO

University of Amsterdam  
The Netherlands







PI9CAM



Cor PEoSHF

Harry PE1CHQ

Theo PA3DDS

Jan PA3FXB

Eene PA3CEG

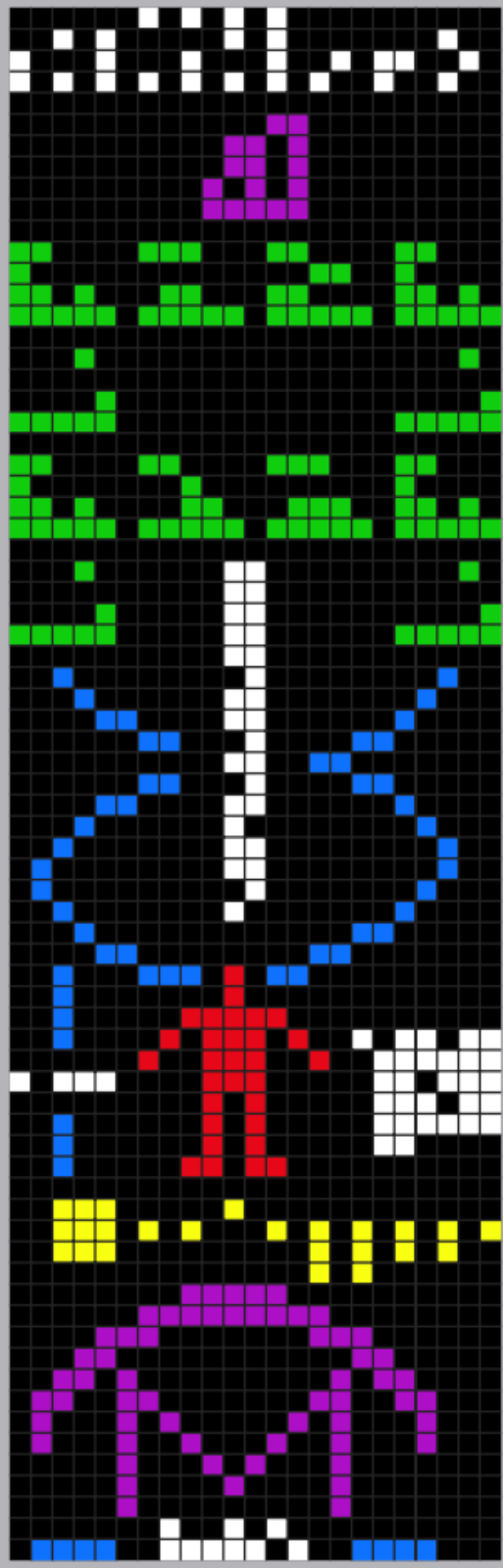


Dubito Ergo Cogito, Cogito Ergo Sum

(I doubt therefore I think, I think therefore I am)

René Descartes (1596-1650)







The numbers one (1) to ten (10) (white)

The atomic numbers of the elements hydrogen, carbon, nitrogen, oxygen, and phosphorus, which make up deoxyribonucleic acid (DNA) (purple)

The formulas for the sugars and bases in the nucleotides of DNA (green)

The number of nucleotides in DNA, and a graphic of the double helix structure of DNA (white & blue)

A graphic figure of a human, the dimension (physical height) of an average man, and the human population of Earth (red, blue/white, & white respectively)

A graphic of the Solar System indicating which of the planets the message is coming from (yellow)

A graphic of the Arecibo radio telescope and the dimension (the physical diameter) of the transmitting antenna dish (purple, white, & blue)





THE  
SOUNDS  
OF  
EARTH

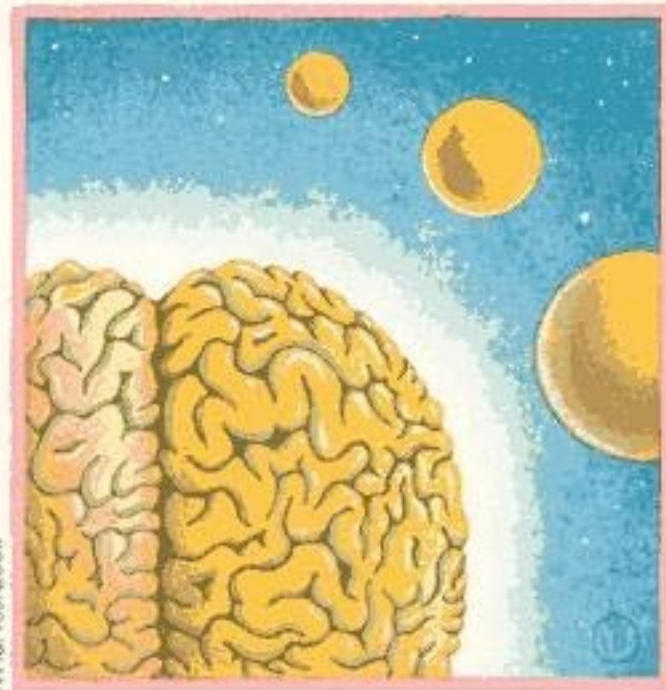
UNITED STATES OF AMERICA  
PLANET EARTH



S T A N I S L A W

LEM

SOLARIS



A Harvest Book

"For those with a taste for thoughtful fantasy"  
— Publishers Weekly



The novel centres upon the themes of the nature of human memory, experience and the ultimate inadequacy of communication between human and non-human species. The novel chronicles the ultimate futility of attempted communications with the extraterrestrial life on a far-distant planet. In probing and examining the oceanic surface of the planet Solaris from a hovering research station, the human scientists are, in turn, being studied by the sentient planet itself, which examines the thoughts of the human beings who are analyzing it. Solaris has the ability to manifest their secret, guilty concerns in human form, for each scientist to personally confront. Solaris is a philosophic exploration of human anthropomorphic limitations





1977

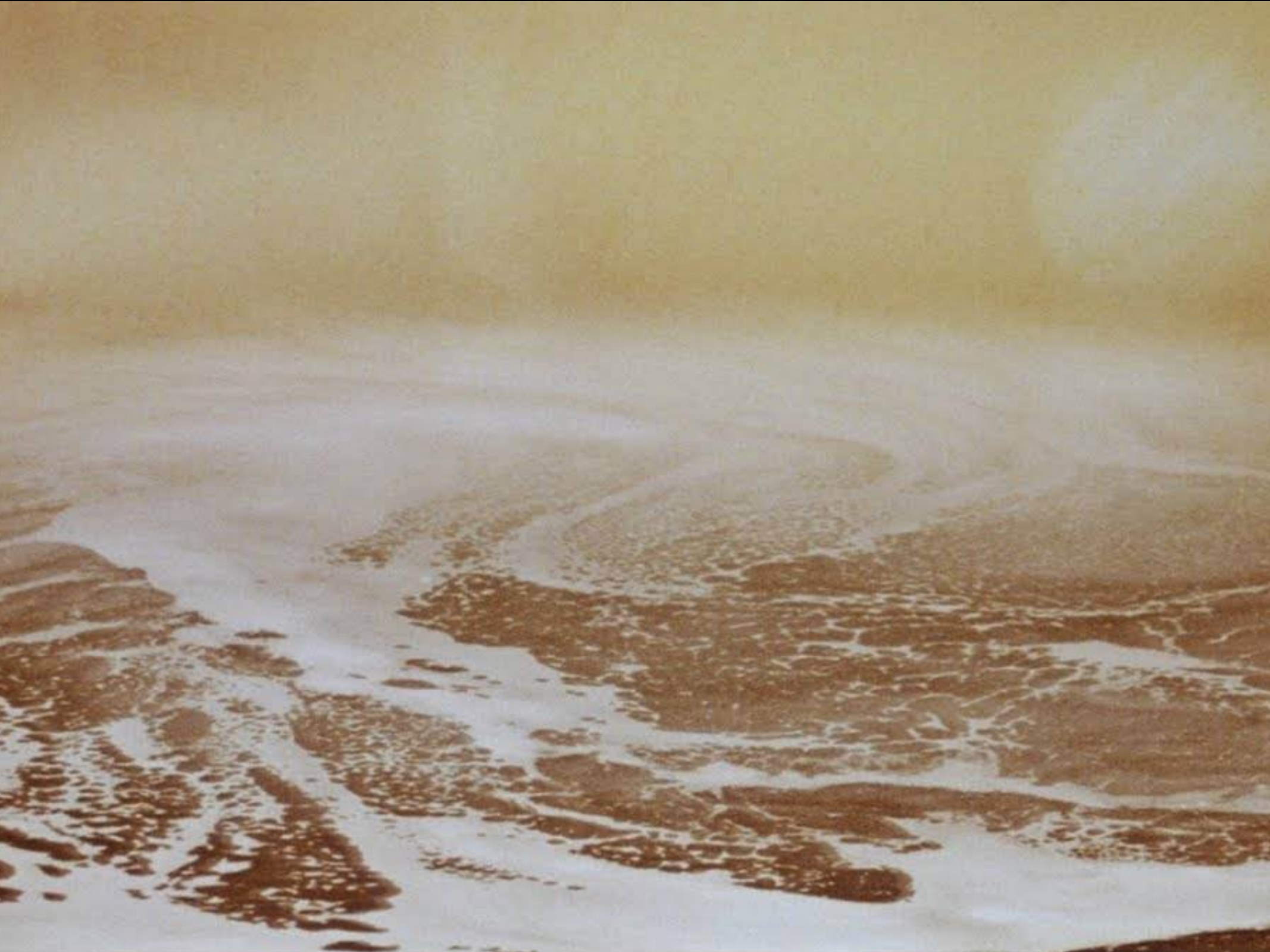
THE CRITERION COLLECTION

ANDREI TARKOVSKY'S

# SOLARIS









In the film *Solaris*, Andrei Tarkovski, turns the emphasis on the psychological conflict of the cosmonaut who loses his identity and sense of belonging while struggling to let go of his memories of his past life on Earth. The film becomes a journey into the arduous search of the (human) self, ultimately highlighting the difficult, if not impossible, path to self-knowledge and human communication.



















# EEG brainwaves



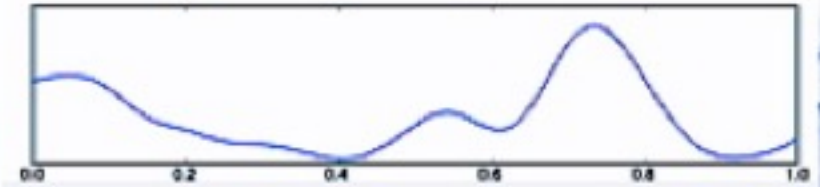
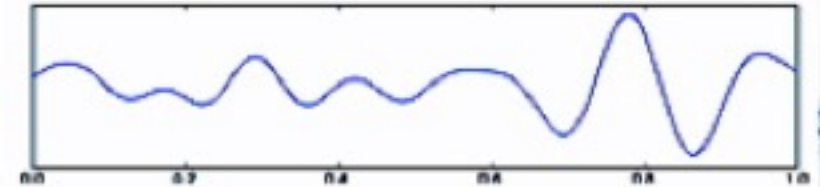
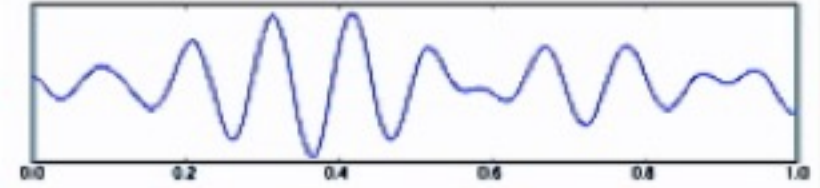
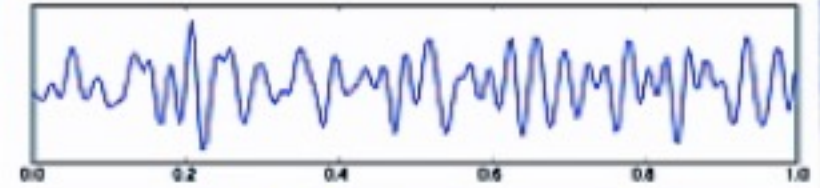
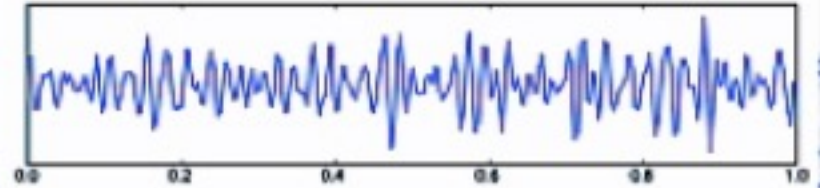
**Gamma**  
Problem solving,  
concentration

**Beta**  
Busy, active mind

**Alpha**  
Reflective, restful

**Theta**  
Drowsiness

**Delta**  
Sleep, dreaming







The **Overview  
Effect**

Space Exploration and  
Human Evolution  
Third Edition

Frank White



Ned Allen  
*Editor-in-Chief*



Isn't it sufficient to try to understand ourselves from within  
- which is hard enough? Yet the ambition appears to be  
irresistible - as if we cannot legitimately proceed in life just  
from the point of view that we naturally occupy in the  
world, but must encompass ourselves in a larger world view.  
And to succeed, that larger world view must encompass  
itself'. (Thomas Nagel, 'Mind and Cosmos', 2012)







*“The stream of knowledge is heading toward a non-mechanical reality; the universe begins to look more like a great thought than like a great machine. Mind no longer appears to be an accidental intruder into the realm of matter, we ought rather hail it as the creator and governor of the realm of matter.” (Sir James Hopwood Jeans, “Physics and Philosophy”; 1943)*



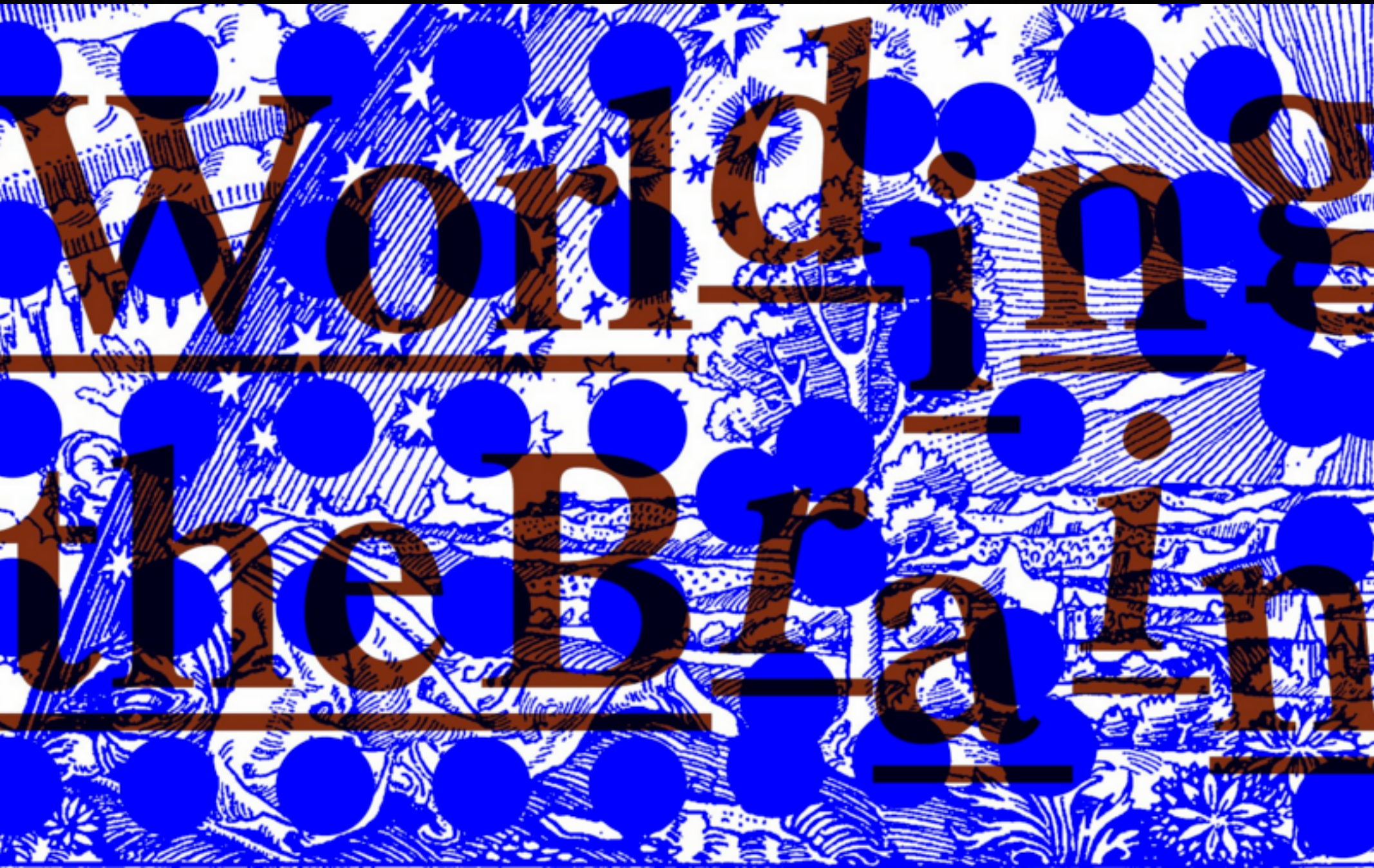
Orchestrated Objective Reduction, conceived by Dr. Stuart Hameroff and Sir Roger Penrose, unlike other theories that consider consciousness as generated solely by complex interaction among brain neurons, suggests that consciousness additionally requires some type of quantum physical process intrinsic to the universe.

According to Dr Hameroff and Sir Penrose 'The recent discovery of quantum vibrations in "microtubules" inside brain neurons corroborates this theory', suggesting that 'EEG rhythms also derive from deeper level microtubule vibrations' (Hameroff S, Penrose R. Consciousness in the Universe. A Review of the 'Orch OR' Theory. Physics Life Review 2014).



Contemporary neuroscientists, physicists and philosophers continue debating over the nature of consciousness, however the question of what consciousness is and how does the brain ultimately produce the coherent experience of the self and of reality remains unanswered. Finding an answer to the 'Hard Problem' would result in a cognitive shift which could radically transform the way we live and evolve. When considering the evolution of an extraterrestrial intelligence, this major cognitive hurdle should be pondered in order to speculate on the possible extraterrestrial communication paths. What if an advanced civilization had already found an answer to the 'Hard Problem', mastering the knowledge of the mind and moving beyond the simplistic, mathematical notion of intelligence?









# CONTACT

CULTURES OF THE IMAGINATION

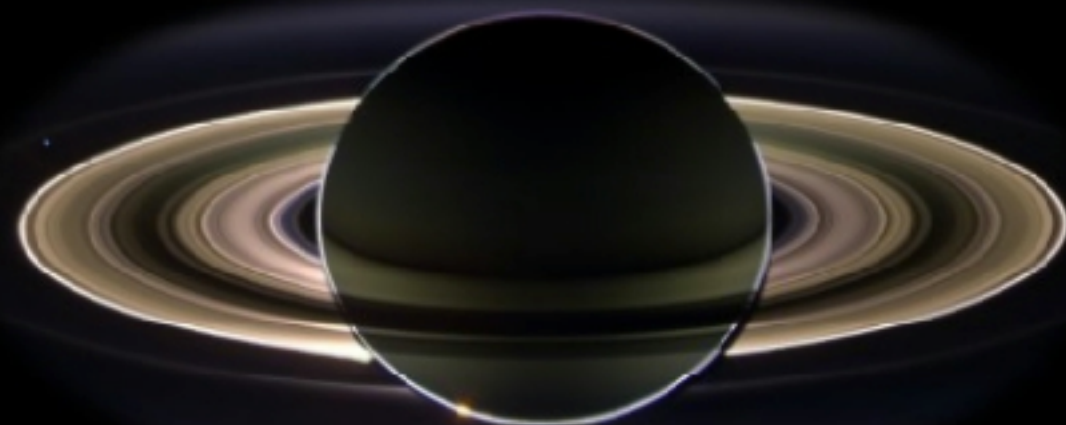
## CONTACT 2016

Will be held  
01-03 April 2016

At the Domain Hotel  
in Sunnyvale, CA

### Venue Information

Participants to date  
include Rick Sternbach,  
Larry Niven,  
Andrew Weir,  
Seth Shostak and  
Kim Stanley Robinson.



With giant Saturn hanging in the blackness and sheltering Cassini from the Sun's blinding glare, the spacecraft viewed the rings as never before, revealing previously unknown faint rings and even glimpsing its home world - Courtesy NASA

CONTACT welcomes all professionals, students and enthusiasts. Come and be part of our next gathering in an informal and synervistic atmosphere with plenty of opportunities for interaction.



**AFO**

academia film olomouc

51. MEZINÁRODNÍ FESTIVAL POPULÁRNĚ-VĚDECKÝCH FILMŮ

51<sup>st</sup> INTERNATIONAL FESTIVAL OF SCIENCE DOCUMENTARY FILMS



EN CZ

**19-24 / 4**  
**2016**





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Promoting open, rigorous discussion of all phenomena related to conscious experience.





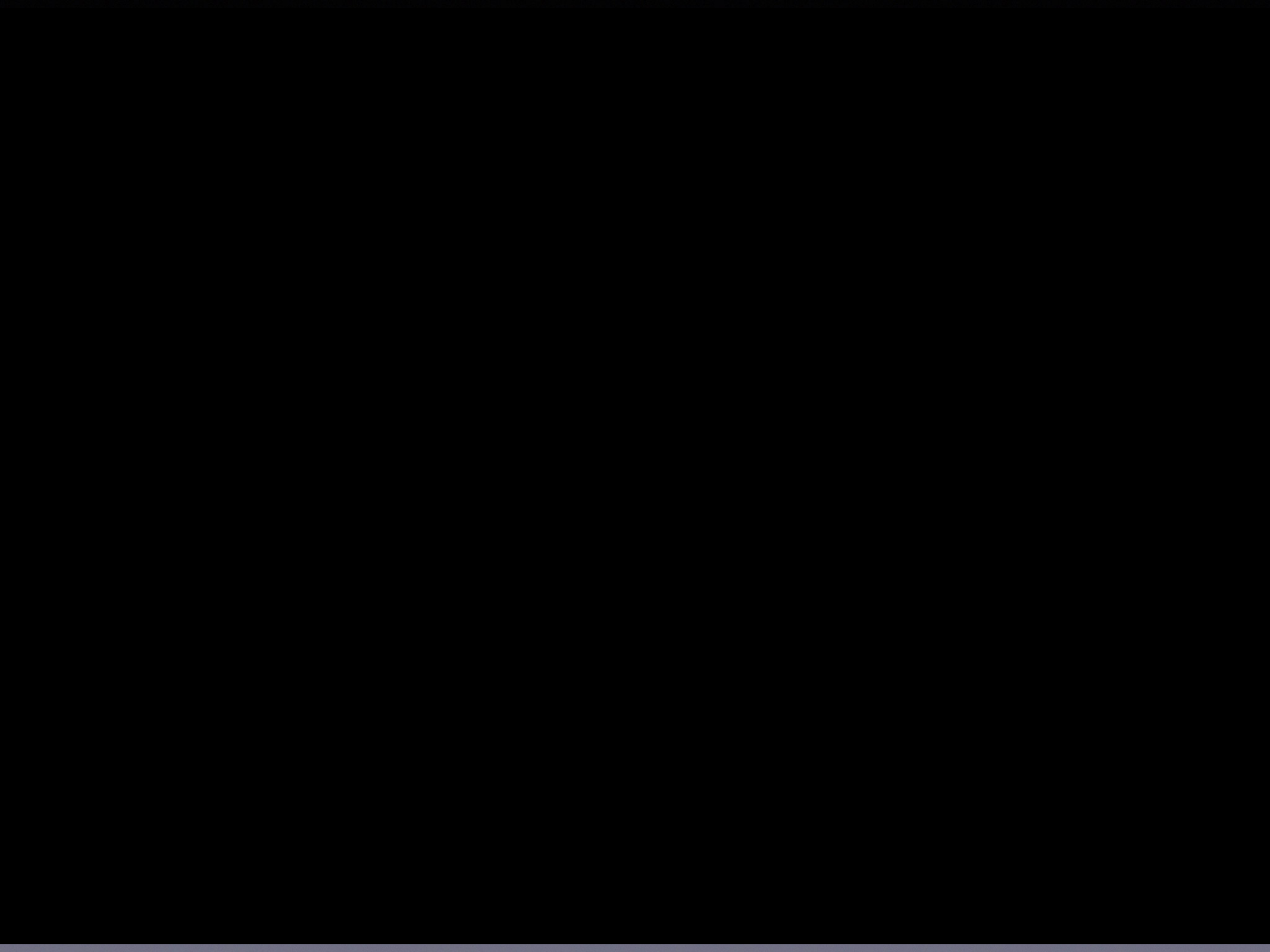
NATIONAL SPACE SOCIETY'S 35TH ANNUAL  
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SAN JUAN, PUERTO RICO, MAY 18-22, 2016



SPACE BEYOND BORDERS







thank you