

LAST CALL FOR
TITAN



52' & 90'

HD

The thirst for the unknown is strong in all of us - we dream with Avatar and the mapping of the Earth, the Moon and Mars has brought us to the next level. We scrutinize exoplanets in search of new habitable zones.

This film focuses on one of the last uncharted planet of our solar system, the sixth and largest moon of Saturn: Titan. Using the data collected by the Cassini-Huygens mission since 2004, we will take viewers on an immersive space expedition as we orbit and approach Titan's surface to discover the landscape of this secretive planet. Ten times further away than the Sun from the Earth, this star offers oddly enough similar features to our planet : mountains, hills, lakes, rain ... but with a completely different atmosphere. Could it eventually become an habitable territory for humanity ? If so at what cost ? As the Cassini Huygens Mission reaches its final stage in 2017 after It's launch 20 years ago, let's get started with this Virtual journey to the outer Solar System...

Thanks to this unique data processing capacity, unparalleled 3D Vizualisations techniques and elaborate graphic animation Titan's landscape will be revealed in the most spectacular and acurate way. It is the first time Titan's surface and landscape is mapped out with such accuracy and made visible with such clarity to a TV audience. We will use the full resources of fiction, including live-action filming and green-screen, to bring this journey to life.



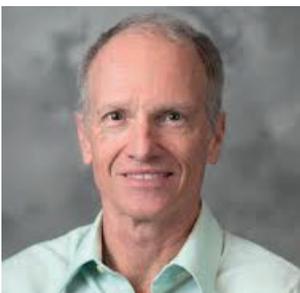
SCIENTIFIC TEAM



***Athena Coustenis** is director of Research 1st class with the National Centre for Scientific Research (CNRS) of France, working at Paris Observatory in Meudon. Her specialty is Planetology (exploration and study of the Solar System from ground-based and space observations). Her research is devoted to the investigation of planetary atmospheres and surfaces, with emphasis on icy moons like Titan and Enceladus, Saturn's satellites, and Jupiter's Ganymede and Europa, objects with high astrobiological potential. She also works on the characterisation of exoplanetary atmospheres. In the recent years she has been leading efforts towards the definition of future space missions. She is also participating in the advisory structure of European and US space agencies and boards.



***Dr Charles Elachi** has been during 15 years the Director of the Jet Propulsion Laboratory and Vice President of the California Institute of Technology. Elachi was Principal Investigator on numerous research and development studies and flight projects sponsored by the National Aeronautics and Space Administration. He was Principal Investigator for the Shuttle Imaging Radar series (SIR-A in 1981, SIR-B in 1984 and SIR-C in 1994), was a Co-Investigator on the Magellan imaging radar, and is presently the Team Leader of the Cassini Titan Radar experiment and a co-investigator on the Rosetta Comet Nucleus Sounder Experiment. In his 45 year career at JPL, Dr. Elachi played the lead role in developing the field of spaceborne imaging radar from a small research area to a major field of scientific research and application. As a result, JPL and NASA became the world leaders in the field of spaceborne imaging radars, and over the last decade, developed Seasat, SIR-A, SIR-B, SIR-C, Magellan, SRTM and the Cassini Radar. He received numerous national and international awards for his leadership in this field.



***Stephen D. Wall** is a Principal Engineer at the Jet Propulsion Laboratory, California Institute of Technology, where he manages programs for the Strategic System Technologies Program Office. Steve has participated in seven major space missions in design teams, science teams, operations teams, and management. Current research interests include advanced system design, concurrent engineering, and other rapid design methods. He holds a Masters in Optical Engineering from the University of Rochester and a BS in Physics from North Carolina State University. For his past work Steve has published over 85 papers in the scientific and technical literature and in the popular press and has been awarded the NASA Exceptional Achievement Medal, the Exceptional Service Medal, and six NASA Group Achievement Awards.

MORE ABOUT THE PRODUCTION PARTNERS

A coproduction AGAT for France 5, in association with Optis/Genesis, Et Alors

*AGAT FILMS & CIE EX NIHILO

Blanche Guichou is one of the leading producer of scientific documentary in France, with numerous industry awards and rating success for flagship programs such as Something about Species, The tomb of Genghis Khan, the secret revealed. The company houses a collective of six producers, scouting the best artistic talents and meaningful stories.

For this film we have unprecedented access to the scientific community working at ESA and NASA and various reasearch institutes. The partnership with Optis & Genesis is a Premiere around a TV project. We will relive the journey - as though we were on the spacecraft - facing the challenges, solving the problems. A tremendous amount of science will be learned along the way, including chemistry, physics, and fundamental STEM problem solving. If we made it to Titan - how do we deal with slightly less gravity? How to accelerate to over 54 000 km/h? What are «tholins», the name given to the mysterious organic compounds detected - and can we build them ourselves?

*For the first time on TV, **OPTIS, and GENESIS** will combine their expertise in Light and 3D Audio simulation to further the scientific quest of the film and provide unprecedented data processing capacities and visualization techniques of the data collected by Huygens in 2005 to bring TITAN to life. OPTIS unique capacity to process the meg-data recorded by the Cassini probe is a technological feat and ensures the highest Production value and scientific accuracy.

*ET ALORS

The animation specialist « Et Alors » will transform these visualizations into cinematic images: the viewer will be part of an immersive journey into the world of TITAN as never seen before!

(Ref. *Mongolia's frozen sarcophagus* Arte/TV5 – 2015 / *The World according to Christopher Columbus* 2012 - ARTE)

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