

C'Nano 2020

The Nanoscience Meeting

TOULOUSE

Centre des congrès Pierre Baudis

December, 8, 9 and 10



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Dr. CNRS – Pr. École polytechnique

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biography

Jean-Marc CHOMAZ is an artist-physicist, researcher at the CNRS, co-holder of the Arts & Sciences Chair at the École polytechnique, ÉnsAD-PSL and the Carasso Foundation. He co-founded the hydrodynamics laboratory, the Labex LaSIPS and La Diagonale Paris Saclay. CNRS Silver Medal 2007, Prix Ampère 2012, his research focuses on soap films, instability, geophysical fluids, biomechanics, arts & sciences. Artist, he created the installations Time traces, Terra Bulla, Une solution au problème de raréfaction du Temps-Bogota 2019, with the Duo HeHe, Fleur de Lys, Planète Laboratoire, Absynth, 2018, with A. Tondeur, Lost in Fathoms, 2014, with A Rodado, Basic Transmutation 2016, with E Domnitch & D Gelfand, Luminiferous drift, EP=EPR, 2017. With L Karst and F-E Chanfrault, he founded Labofactory with the works Infraespace, Fluxus, Wave, Exoplanet, 2080, Infinite, Redshift, Soundstream, Blackout, Soleil irrésolu, Sky presented in Amsterdam, Moscow, Paris, Boston, Berlin, Bogota, Atlanta 2019.

THE ROLE OF THE SENSITIVE WORLD IN SCIENTIFIC CONSTRUCTION

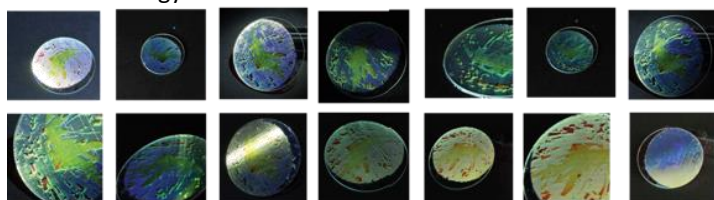
Abstract

Since its creation in 1990, the Laboratoire d'Hydrodynamique has been involved in arts, science and citizen projects, in collaboration with artists from all disciplines: theater, circus, design, music... This activity has led to the creation of the Arts & Science Chair of the École Polytechnique, the École des Arts Décoratifs - PSL and the Daniel and Nina Carasso Foundation. The works proposed to the public are artistic constructions realized on the basis of scientific concepts by involving scientists from all fields, not to demonstrate, but to make sense. They present a human and sensitive dimension of physics, which allows transgressions, metaphors, counter-sense and winks. The spectator then finds himself in a universe where he can invent his own path, and feel the emotion of science.

This approach aims to change the expert's speech and posture. It opens up other paths not limited to proof, which leave room for intimate conviction and intuition, questioning myths and scientific beliefs. Its importance is decisive for the major issues facing society, such as the climate, living organisms and new technologies, which are far too complex for science to answer alone. Art then becomes a means of redefining our concerns and reformulating the questions posed by science. It shifts our gaze, without confusion with proof, and without prescription.

This research approach affirms that innovation in science is an act of creation and imagination, which is an act in the sensitive space before it can be put to the test of reason. Sharing the imaginary of science allows scientific knowledge to be debated and entered into the narrative. The construction of this complex system of representations is essential for science to be efficient and for a thoughtful and desirable future to emerge from the shared narrative.

The presentation will be based on a broad panorama of works from the fields of environment, biology and nanotechnology.



Keywords: arts & sciences