

## Music composition on seismic noises on Mars, InSight: a new challenge of PhiloGaïa Orchestra

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"We love our planet! It lives, it sings!" We have started our PhiloGaïa Orchestra project towards spontaneous musical creations on geoscientific images and videos (cf. Fuji & Meschede 2017). The basic idea is that the scientific products are beautiful per se. Successively supported by IPGP communication team and by Festival des Idées run by USPC university consortium, we have been able to perform our own music pieces that mix the geoscience and classical music. One remarkable concert took place in UNESCO Paris, for the 100<sup>th</sup> anniversary of the International Union of Geodesy and Geophysics (July 29<sup>th</sup>, 2019) of my piece "Peter and the Earth" (Pierre et la Terre). Involved in the NASA-InSight project, we have been working on the seismic signals from Mars and we have been interested in seismic noises (acceleration) that have eigenfrequency of B and F# (if we accelerate them by a power of 2!). Here we present our new piece "Symphonic poem SEIS, InSight No.1" that starts from the first movement "pictures of dream" accompanied by images drawn by students and researchers in IPGP, followed by "poems that vibrate, Pauline and Thomas" with a narration of two poems written by Thomas Ferrand and Pauline Bonnet. We then integrate the famous "seismic noise on Mars" in the third movement. This year the project will be supported by the department of Ariège, France to attract the rural audience. We think this will be an avenue to invite the public to immerse in a world of pure science, without any specific knowledge.

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