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# LANDSCAPE ARCHITECTURE DESIGN LAB RE-THINKING CITIES UNDERGROUND

OPEN REGISTRATIONS - ONLINE PROJECT COURSES ABOUT THE LANDSCAPE ARCHITECTURE



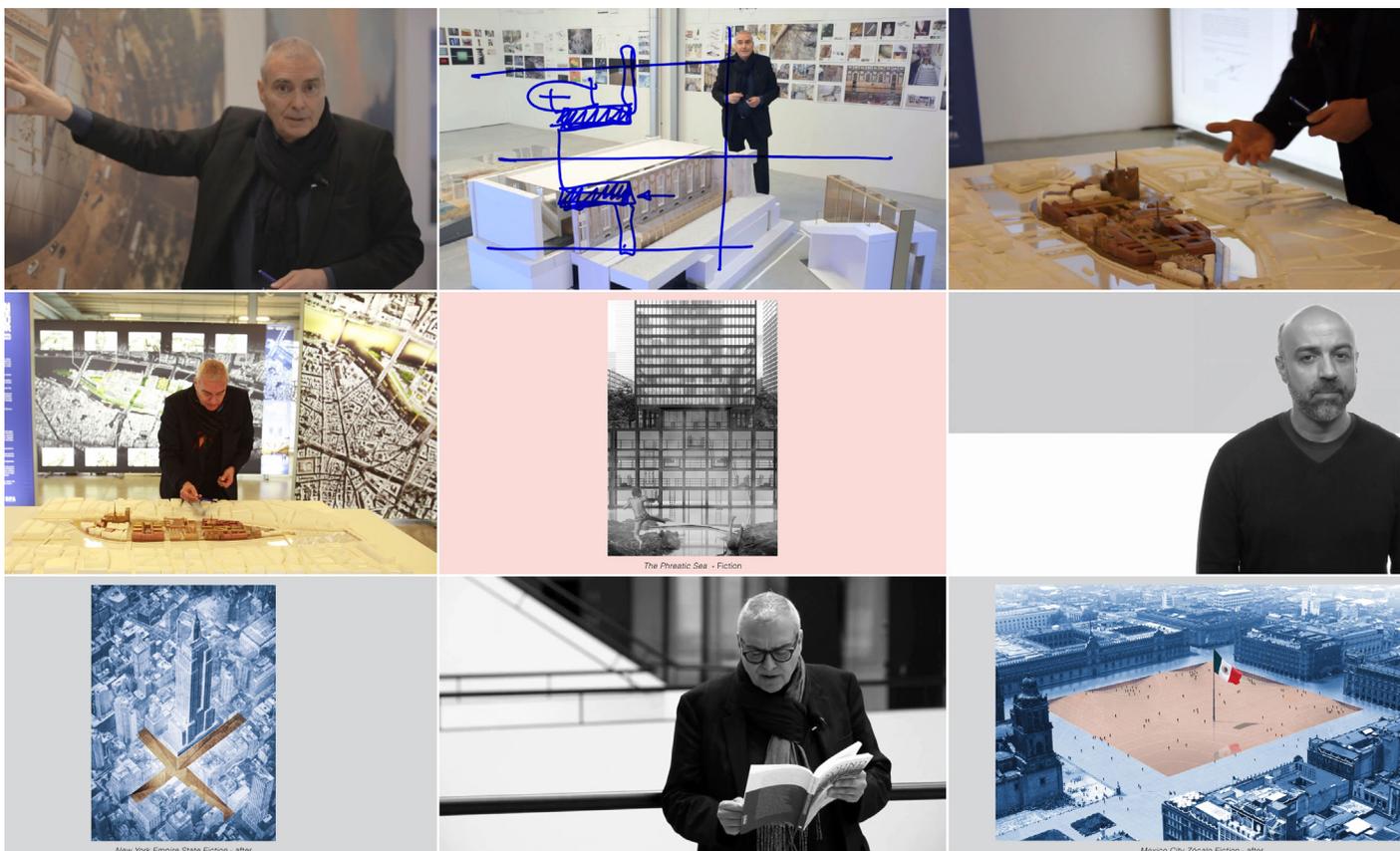
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# ONLINE PROJECT COURSE OF THE ARCHITECTURE- edX "GROUNDSCAPE ARCHITECTURE DESIGN LAB, RE-THINKING CITIES UNDER-

**The Ecole Polytechnique Fédérale de Lausanne and Dominique Perrault** present a MOOC (massive open online course) about the Groundscape architecture. This architecture project course is intended not only for architects, urban planners, landscapers, students, but also for anyone interested in one way or another in the development of cities and the territory. Free, this course will be available on registration from October 15, 2018, then every year in two annual sessions, on the edX teaching platform. It will include six weeks of theoretical and practical instruction.



## **A course about the Groundscape architecture**

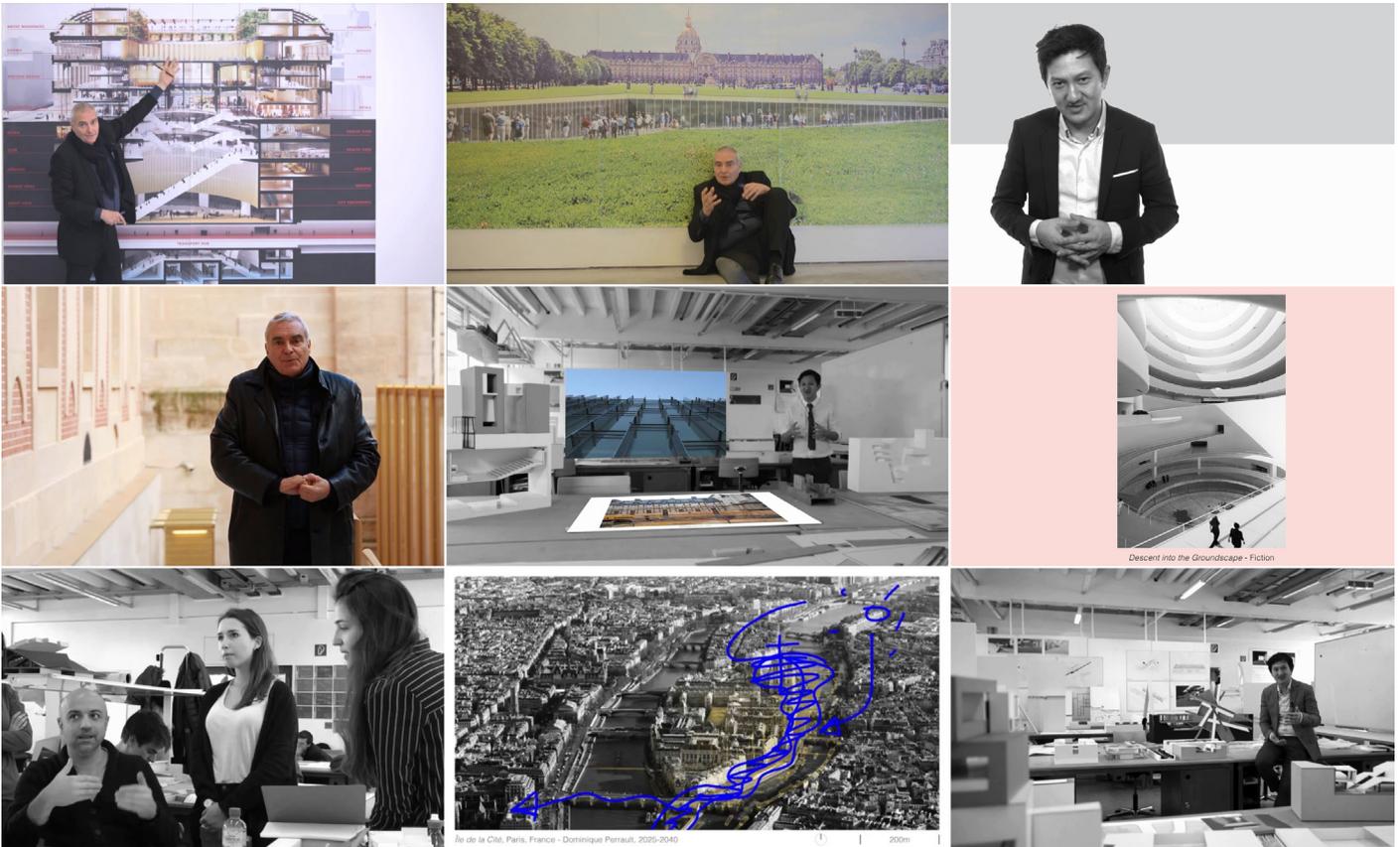
A new field of research for architects, designers and urban planners, this unique form of architecture explores the spatial potentialities located beneath the surface of our cities. It offers a different way of exploring the soil by providing a resilient, responsible, aesthetic and sustainable response to the many current urban challenges. The reflections and experiments related to this new field of study have been conducted for several years in the SubLab, an academic think tank and multidisciplinary research platform founded in 2013 by Dominique Perrault at the Ecole Polytechnique Fédérale de Lausanne (EPFL). Along with SubLab teachers Richard Nguyen, Ignacio Ferrer Rizzo and Juan Fernandez Andrino, Dominique Perrault is offering for the first time an online course, which will allow each student to acquire the fundamental skills necessary to design a project about the underground architecture.

It will offer a discovery of the underground territory, in order to reverse the negative perception associated with it. It will also make viewers more familiar with urban strategies, design tools and basic construction processes necessary for the creation of underground spaces.

# OPEN REGISTRATIONS

Beginning of the course 10/15/2018

**Structured around a series of 5 episodes divided into different moduls**, this MOOC offers a set of theoretical courses, illustrated with several hundred built or fictional references. It will also include lectures and tours of underground architectures built such as The Bibliothèque nationale de France in Paris, the campus of the Ewha Campus center in Seoul, or the Velodrome and the Olympic swimming pool in Berlin. Finally, it will offers practical workshops, through the Underground Design Studio, in which students will develop their personal experience of a Groundscape architecture.



## •Episode 1: The manifesto of the landscape

An introduction to the basic concepts related to soil, such as vacuum, light, geography, landscape, heritage, depth, density, networks, etc.

## •Episode 2: Conquest

Study of the soil as a tool for creating new territories through the disappearance of architecture.

## •Episode 3: Geography

Landscape study as a mixture of landscape and architecture. We will highlight the ability of the underground territory to build complex networks and links.

## •Episode 4: Heritage

Study of Groundscape as an aesthetic and respectful urban solution in heritage-sensitive sites.

## •Episode 5: Laboratory

An invitation to explore new design methods specifically oriented towards underground territories.

## THE TEACHERS

### Prof. Dominique Perrault



Praemium Imperiale award winner (Japan), the French architect and urban planner, Dominique Perrault, is a professor and director of the Underground Architecture Laboratory (SUB) at the Ecole Polytechnique Fédérale de Lausanne in Switzerland. He is also the founder of DPAX, a multidisciplinary research platform exploring architecture from a wider perspective, and DPA Lab, a laboratory of research and innovation developing processes that reinvent the vocabulary of architecture. Along with the Bibliothèque Nationale de France, his main projects to date include the Olympic Velodrome and Swimming Pool in Berlin, the extension of the Court of Justice of the European Union in Luxembourg, the Olympic Tennis Stadium in Madrid, the Ewha Womans University in Seoul and the Fokoku Tower in Osaka. In recent years, Dominique Perrault inaugurated the tallest tower of Austria in Vienna, the DC Tower 1, and led various heritage rehabilitation projects, including the new public entry pavilion for the Château de Versailles and the repurposing of La Poste du Louvre in Paris. Current studies and urban research projects include the Olympic Village – Paris 2024 and the “Mission Ile de la Cité,” an urban study commissioned by the president of the French Republic that reflects upon the future of the thriving, historical center of Paris from now until 2040.

More info : [www.d-p-a.fr](http://www.d-p-a.fr) [www.dpa-x.com](http://www.dpa-x.com)



### Juan Fernández Andrino

Teacher of SubLab, Laboratory of underground architecture of EPFL. Architect graduated from ETSAM, Madrid Technical University of Architecture. He is also a graduate of the Mackintosh School of Art. His professional career began in Seville with the architect Guillermi Vazquez Consuegra (1997-1999). Since 2001, he collaborates with Dominique Perrault in Paris as head of project development in Spain. Since 2005, he is director of DPA Spain in Madrid. Among the projects carried out within the agency are the Olympic Tennis Center in Madrid, the Melia Tower in Barcelona, the Arganzuela Footbridge in Madrid and the Leon Convention and Exhibition Center.

### Ignacio Ferrer Rizzo

Architect graduated from ETSAM, Technical University of Architecture Madrid, he also attended EPFL as a student during an exchange program. Ignacio Ferrer Rizzo has been a collaborator since 2014 in Dominique Perrault's Geneva office. As a professor-researcher, in 2016 he joined the SubLab, Laboratory of Underground Architecture at EPFL.

### Richard Nguyen

Architect graduated from the Paris Malaquais School of Architecture, after studying at the University of Sydney. During his twelve years of collaboration with Dominique Perrault agency, he has directed numerous projects, including the French Ministry of Defense, the Paris Ile de la Cité mission and the Longchamp racecourse in Paris. His academic career began alongside Sir Peter Cook, founder of Archigram at the Ecole Spéciale d'Architecture in Paris. He has also been a professor at the School of Industrial Design in Paris. Since 2014, he teaches architecture design studio at EPFL, as part of the underground architecture laboratory SubLab, and received in 2016 the Gold Polysphere Prize, which rewards the best EPFL professor.



## THE SUBLAB - Laboratory of underground architecture

Founded by Dominique Perrault in 2013 at the Ecole Polytechnique Fédérale de Lausanne (EPFL), the SubLab is a group of academic reflexion and a platform research multidisciplinary dedicated to the investigation of the underside of our cities.

The SubLab explores an architecture that penetrates the territory, which calls into question visibility, demonstrativity or salience in favor of a more telluric architecture. Geography, the specificities of the territories, their topography, the remarkable or non-existent elements that compose them, are explored as the material of architecture.

Today, basements host above all technical and logistical architecture, buried to be concealed. The Sub Lab wants to overcome this underexploitation and the unflattering terminology associated with it. While environmental issues and the urban question require architects to expand their fields of research, it is a question of finding new ways of occupying the territory in depth.

More informations on: <http://sub.epfl.ch>



**EPFLX**, online course of the Federal Institute of Technology Lausanne. Many free and open-access courses are now offered by EPFL via the edX platform, on a wide variety of topics, and students can choose to receive a verified certificate for a small fee. The main campus of EPFL brings together 12.600 students, professors, researchers and collaborators in a dynamic learning and research environment.

Over the last decade, EPFL has reached the top of the European scientific and technological institutions: it is ranked #1 in Europe in the field of engineering by the Times Higher Education (publications and citations); Leiden Rankings and Academic Ranking of World Universities.

More informations on: <https://www.edx.org/school/epflx>



**edX** is a non-profit online learning platform, founded by the Massachusetts Institute of Technology (MIT) and Harvard University in May 2012. It hosts and provides free online courses, or MOOC (massive open online course) at university level, all over the world. She also conducts research on e-learning.

In 2014, approximately 50 schools, associations and international organizations, including the University of Berkeley, Oxford University, The Sorbonne in Paris and McGill University in Montreal, offer or plan to offer courses on edX. As of July 2014, edX had more than 2.5 million users following more than 200 online courses.

More informations on: <https://www.edx.org>

**ONLINE REGISTRATION ON WWW.EDX.ORG**