



DISCOVER INNOVATION AND
ENGINEERING IN FRANCE

**EPF VIRTUAL
TECH CAMP**

JULY 6-10

**SPEAKERS
PRESENTATION**

PHD DELPHINE MOREY

Staff member of the French as a Foreign Language department of EPF and partner school ESTP Paris

D. Morey is a longtime staff member of the French as a Foreign Language department of EPF and partner school ESTP. Her teaching approach gives great importance to French culture, cross-cultural issues and takes into account the specific topics of foreign students as they come to France and study there.

She has been teaching in universities both in France and abroad but also Paris' Alliance Française, Cours de Civilisation française de la Sorbonne and for more than a decade in a number of "grandes écoles" (Ecole polytechnique, Ecole des Ponts ParisTech, ENSTA Paris,...).

She has a Master's Degree in French as Foreign Language (Université Sorbonne Nouvelle - Paris 3).

Subject: French as a Foreign Language: Discover France, its language and its culture

Monday, July 6, 2020



PHD FRANÇOIS NICOLLE

Assistant professor at ICD School in management sciences

François Nicolle is a researcher in management sciences. After graduating from business school, he worked for several years in a digital communications agency. Specialized in influence strategies, François holds a PhD in strategic management.

Marketing has considerably evolved in recent years. With the development of digital world and social networks, many tools are now available for managers to reach new customers and maximize turnover. Thanks to this “data revolution”, marketing is reinventing itself and requires new skills. However, these innovations pose some risks to society.

Subject: How to influence clients through digital marketing ?

Monday, July 6, 2020



PHD JULIEN GARDAN

Assitant professor, Head of Additive Manufacturing,
Responsible for MSc ICE, Innovative
and Entrepreneurship background

PhD Julien Gardan is Assitant professor, Head of Additive Manufacturing, Responsible for MSc ICE, Innovative and Entrepreneurship background.

Additive Manufacturing gathers a number of technologies and methodology that is growing up for decades in order to develop innovative products in different industrial sectors. EPF and its partners set up new solutions in research and education to accompany the evolution of future engineers.

Subject: Innovation at EPF : becoming a creative engineer

Discovering the Msc Innovation Creativity and entrepreneurship.

Knowing the FabAdd academy activities

Tuesday, July 7, 2020



DIANA GRIFFOULIERES

Pedagogical innovation staff member
at the EPF Engineering School

Diana Griffoulieres. She is a Master's degree in Education Sciences in 2009 and PhD Candidate in eLearning at eLearn Center - Universitat Oberta de Catalunya (Spain).

With over 16 years of experience in the digital learning field, she works on blended and e-learning projects related to teaching innovation at the EPF Graduate School of engineering. Her experience in Digital Learning includes managing transversal projects to support the faculty in deployment of educational technology and open and distance learning.

Subject: Reinventing teaching and learning:

Tuesday, July 7, 2020



PHD IRINA ANELOK

Pedagogical innovation staff member
at the EPF Engineering School

Irina Anelok obtained a PhD in French Literature in 2013 and a Master's degree in Instructional Design in 2019. She has an extensive experience of working as French Teacher for foreigners (14 years of teaching in France and abroad).

Passionate about active learning pedagogy and educational technologies, she helps teachers to create effective, engaging, and innovative instruction.

Subject: Reinventing teaching and learning:

Tuesday, July 7, 2020



PHD ABDELATIF MERABTINE

Current function: Assistant Professor at EPF Ecole d'Ingénieur-e-s

Title of the Platform:

Bi-climatic test Cell (BBC+)

Summary: The experimental facility BBC+ is a full-scale test cell that is designed with

a dual purpose allowing both the study of the characterization of the building envelope materials and the thermal comfort assessment.

Short Biography: Is an Assistant Professor at EPF graduate school of engineering. He conducts research on heat and mass transfer for different scales with an application in buildings and thermal systems for improving the energy efficiency of new and retrofitted buildings.

Subject: Innovative Technological platforms for comfort in buildings & presentation of student projects in Sustainable Architecture

Wednesday, July 8, 2020



PHD OMAR SAIFOUNI

Lecturer at EPF & Manager of the
Major « Engineering & Sustainable Architecture »

- Civil engineer & PhD in solid mechanics (2014)
- Lecturer at “French institute of advanced mechanics” (2014-2016)
- Lecturer at “Higher Institute of Automobile and Transport” (2016-2017)

Subject: Major Engineering & Sustainable Architecture

Thursday, July 9, 2020

Presentation of the Major « Engineering & Sustainable Architecture »:

In 4th and 5th year students choose major (master cycle). Those who plan to make a career in the city and building sector.

I will present the competences targeted in this major in one hand the architectural design, the users comfort (thermal, acoustic, etc.), the structural stability and on the other hand the digital, the connectivity and regulations applied to buildings and cities. I will also talk about real student semester projects in which they applied the skills taught into practice.



PHD OLIVIER HORNER

Head of Research at the EPF Engineering School

“Agrégé” of Chemistry of the Ecole Normale Supérieure de Cachan (1993), PhD in Inorganic Chemistry at the University of Paris-Sud and CEA / Saclay on artificial photosynthesis (1998). Postdoctoral fellow at Stanford University (1998-1999). Assisant Professor in bioinorganic chemistry at CEA / Grenoble Joseph Fourier University for five years.

Accreditation to supervise research (HDR) (2005). Research Engineer for eight years at EDF R&D in the field of corrosion and as a project manager in the fields of environmental chemistry and microbiology. CR1 Researcher at CNRS in the field of functionalized nanoparticles (2007).

Olivier Horner performs his research in the laboratory LISE (UMR CNRS 8235) at Sorbonne University (Paris, France) in the field of water treatment, scaling, corrosion and biofilms.

Subject: Innovative platforms for Research and Technology : EPF's Tech and Energy Lab

Wednesday, July 9, 2020



BETTY BONNARDEL- AZZARELLI

CEO AB5 Consulting and EPF alumni

Betty is CEO of AB5 Consulting, an award-winning consulting company based in London, UK, specialised in high technological sectors, including telecommunications, IoT, satellite & space, transport and nuclear. An award-winning engineer, Betty works with the industry, regulators and UN Agencies, in due diligence, regulatory and licensing, market access, system assessment, business development and stakeholders' management. She holds two Masters' in Science in aeronautical and space engineering, a diploma in international nuclear law and a MBA. Betty is a certified project manager; she is president of the UK Chapter of the Space and Satellite Professionals International (SSPI). Betty seats on the University of West London engineering and ICT schools' industry committees. Betty is also engaged in society; she is a school governor and chair of the resource committee (£11M budget) at a prominent High School and participates regularly to school fairs and events to promote engineering with boys and girls. Betty is a member of WomenVai.

**Subject: Women in engineering:
overcoming stereotypes
Gender and
Artificial Intelligence : Is AI gender-
biased ? Women and Entrepreneurship**

Thursday, July 9, 2020



PHD LILIANE DORVEAUX

Deputy Director at EPF School of Engineering, Montpellier Campus

Dr Liliane Dorveaux, Deputy Director at EPF School of Engineering, Montpellier Campus, Vice President Enterprises and Industry INWES 2017-2020, Regional Head of “Elles Bougent” French organization, co-founder of WOMENVAI.

Phd in Applied Mathematics, University Pierre et Marie Curie, Paris, France.

Started as Researcher at Flinders Medical Center, Adelaide, Australia, in an applied cardiology research unit under the direction of Professor Andrew Tonkin (Dpt of Epidemiology and Preventive Monash University, Melbourne). Later as lecturer at UCO Bretagne, head of the Department of Mathematics of the Bretagne Nord campus.

Then Director of Mathematics department at UCO Bretagne Nord, she has been in charge of teacher training program in Mathematics.

She has been always involved to promote STEM to young ladies, to break stereotypes and to open mind to diversity and gender code into professional area. Involved into ethical perspectives in sciences, she initiated last a working group on AI composed by students, companies, academics and organization.

Subject: Women in engineering: overcoming stereotypes Gender and Artificial Intelligence : Is AI gender-biased ? Women and Entrepreneurship

Thursday, July 9, 2020



YVETTE RAMOS

Expert in Strategic planning to the WMO , founder-president womenvai international NGO Geneva,

With a background in Engineering and twenty five years professional experience, starting with a position of Project Manager in the Industry (Schlumberger, Ascom) to Expert in Strategic planning and Change Management, including capacity development for telecom companies and hydromet services at international level, she has developed extensive experience on managing teams and projects abroad.

She holds the position of Expert at the specialized United Nations Agency the ITU, the International Telecom Union, Development Bureau, and the World Meteorological organization, both with HQ in Geneva, Switzerland.

She has recently accepted the challenging position of Project Manager (2018-2021) for the System Integrator of the AIRBM-2 World Bank project for the modernization of the Department of Meteorology and Hydrology of Myanmar.

First woman president of the +100 years aged Swiss Engineering Geneva chapter (2011-...) and founder and president of WOMENVAI, an international NGO a platform for innovative projects in Environment and High-Tech - led by women - supported by women AND men.

**Subject: Women in engineering: overcoming stereotypes
Gender and Artificial Intelligence : Is AI gender-biased ?
Women and Entrepreneurship**

Thursday, July 9, 2020



LÉOPOLD KRITLY

PhD student at the EPF Engineering School

Léopold KRITLY studied acoustics and vibrations at ENSIM, an engineering school located in Le Mans (France), where he graduated in 2018. From that moment, he is doing a Ph.D. thesis at the Faculty of Architecture of KU Leuven (Belgium), in collaboration with EPF (France), an engineering school, on the topic “Human echolocation inside buildings”. His research expertise mainly relies on psychoacoustics, room acoustics and listening test programming. Jointly to his doctorate, he is also teaching a wide range of topics to engineering students, from acoustics to mechatronics prototyping.

Subject: Innovative platforms for Research and Technology : EPF's Tech and Energy Lab

This presentation will aim at introducing the audience to an acoustically based technic allowing blind people to sense their surroundings by themselves. This localisation method called echolocation, its principal working mechanism and an example of a recent investigation performed on the topic will be presented. The study case will be related to the distinction of wall textures by echolocation and its performance enhancement by artificial modification of the wall signature. The challenge of learning echolocation will be discussed to explain the needs for pedagogic tools to spread this powerful orientation method to a wider audience

Wednesday, July 9, 2020



PHD MARIO VERUETE

Teaching manager of the Data Engineering Major at the EPF

Mario Veruete is an applied mathematician who works in the field of machine learning and mathematical modeling of biological processes such as tumor growth, epidemiology of infectious diseases and evolution. Additionally, Dr Veruete has a large experience in computational aspects of mathematics and its applications to real world situations.

Computational thinking builds on the power and limits of computing processes, whether they are executed by a human or by a machine. Computational methods and models give us the courage to solve problems and design systems that none of us would be capable of tackling alone. Computational thinking confronts the riddle of machine intelligence: What can humans do better than computers? and What can computers do better than humans? Most fundamentally it addresses the question: What is computable? Today, we know only parts of the answers to such questions.

Subject: Computational Thinking for engineers

Computational thinking builds on the power and limits of computing processes, whether they are executed by a human or by a machine.

Friday, July 10, 2020



PHD MAXIME BOURGAIN

Associate professor at the EPF Engineering School

Maxime Bourgain is an associate professor at the EPF Engineering School. He graduated from the ENS Paris Saclay School and holds a research master's degree from the ENSAM Paris in biomedical engineering. He wrote his thesis on biomechanics and health engineering. His research domains of interest are sport and rehabilitation biomechanics. He is currently the head of the Engineering and Health Major programme of the EPF Engineering School and carries out his research at the Institut de Biomécanique Humaine Georges Charpak. In research his field of interest are in movement analysis and musculoskeletal modelling, applied for sport biomechanics and handicap studies. Maxime Borugain is currently collaborating with French hospitals, national federations and laboratories (CERAH, IBHGC), but also international laboratories such as in Colombia.

Subject: Engineering and Sports

In the module, I will present a biomechanics analysis workflow to better understand sport performance, with an application to golf. I will present a state of the art of the golf biomechanics scientific literature. Then I will present the experimental, modelling and analysis we performed the better understand the biomechanical performance.

Thus, this will permit to have an introduction to modalities used in research for biomechanically analyse movement.

Friday, July 10, 2020



JEAN-MICHEL NICOLLE

Director General at EPF Engineering School
Vice-President of CDEFI
Vice-President of UGEI & N + I Network

After a master's degree in economics, Jean-Michel NICOLLE graduated from the IAE (Institute of Business Administration) in Paris in 1977, obtained a DEA in management from the University of Paris 1 in 1978 and began a doctoral training. In 1982, he graduated in economics and management. In 1985, he obtained a diploma in public accounting. Jean-Michel Nicolle has been at the head of EPF, a graduate school of engineering, since January 2008. He has also been vice-president of the Cdefi (Conference of Directors of French Engineering Schools) since September 2018.

Subject: Opening session: EPF : a unique learning experience in France - a model of diversity

Monday, July 6, 2020



FRANÇOIS STEPHAN

Director of the Montpellier campus at EPF Engineering School

General engineer, François STEPHAN graduated from the central school of Lyon, promotion 1986. After obtaining a specialized master's degree in aeronautics from ENSAE in 1987, he acquired a doctorate in mechanics from ONERA (French Center for Aerospace Research) in 1992. Backed by professional experience in an engineering school, François STEPHAN held the position of Director of Studies for 8 years in a Parisian engineering school. It was in 2011 that he became school director with the responsibility of developing a new EPF campus in Montpellier. Passionate about innovative pedagogies, he is currently responsible for the Pedagogical and Digital Innovations (IPN) unit of the EPF, while continuing to manage the Montpellier campus.

Subject: Reinvention teaching and learning : EPF's new approaches

Tuesday, July 7, 2020



DANA OPRISAN

Doctor of Medicine (M.D.) and Architect

Dana OPRISAN is Doctor of Medicine (M.D.) and Architect. She obtained her medical degree from Carol Davila University of Medicine and Pharmacy (1999, Bucharest, Romania) and Bachelor's Degree in Interior Architecture from Ion Mincu University of Architecture and Urbanism (2009, Bucharest, Romania). She then obtained a Master's degree Master of Science in Sustainable Design (Environmental Design/Architecture) from the Catholic University of America (2016) and a Certificate of Healthcare Facilities Planning and Design from Cornell University (2017). She LEED and Evidence-Based Design certified, she lectures and works as a researcher and consultant for the Biophilic Practice Group, Capital Nature, Washington DC. Since 2018, she is an Adjunct Professor at Marymount University (Arlington VA). Her research activities are focused on the impact of the built environment on human health and well-being and on translating the findings into innovative, human-centered, and environmentally responsible design solutions.

Subject: Becoming an international student in France at EPF

Wednesday, July 8, 2020



AGNÈS AUCLAIR

Dir of Corporate relations and employability at EPF Engineering School

Engineer in Feminine Polytechnic School and specialized in Electronic and Telecommunications

Master in Microelectronic EPF / Texas A&M university

Master in Multimedia / ESIEE

Professional Experience

16 years of management, business development, operational and technical experience in the high-tech fields and energy services

6 years as a manager in consulting companies in telecommunication, networks, Internet fields and new technologies.

8 years in microelectronics field, in both technical management and technical presales for U.S company in silicon valley

Subject: Getting a job in France and Europe : How EPF prepares its graduates for internships and recruitment

Wednesday, July 8, 2020



VINCENT BASECQ

assistant professor/researcher at EPF Engineering School

Vincent Basecq, Engineer, PhD in civil engineering at the University of La Rochelle. Assistant professor in Thermodynamics and energetic. Researcher since 10 years in the field on Solar Wall, Phase change material, thermal shield, thermal comfort for garment, in cabin and in building. Laboratory: in the past CNRS PROMES, CNRS LaSIE.

Currently Vincent Basecq performs his research in the laboratory of Grespy Reims, and EPF R&D.

Subject: The topics of the presentation is the thermal comfort, the way to evaluate it. Thermal comfort depends on a lot of parameters such as:

- **environmental parameters such as Humidity, temperature, wind velocity...**
- **thermophysiology: how the body is heating/cooling himself: shivering, sweating..., and how he exchanges heat with environment.**
- **psychological aspect,**
- **other parameters garment, positioning, architecture, etc...**

The study of thermal comfort need a multidisciplinary approach with survey, physics measurement, simulation, and comfort and sensibility index, to quantify it.

Finally the presentation focus on the specific tools we have in EPF, to study thermal comfort: the thermal manikin Newton.

Thursday, July 9, 2020

