

**Séance d'information sur le doctorat - 16 novembre 2017**  
**Liste des posters**

<b>N°</b>	<b>Responsable</b>	<b>Titre du poster</b>	<b>Mots Clés</b>
1	ARCHAMBEAU Pierre	Systematic flood modelling to support flood-proof urban design	Flood - Inundation - Urban - Flood-proof
2	ATTIA Shady	Zero energy lightweight construction for urban densification: A methodology to determine urban densification potential through roof stacking	Decision support - Workflow - Urban Sprawl - Lightweight construction - Mapping
3	BRULS Olivier	Multibody and mechatronic systems	Numerical modelling, Robotics, Biomechanics, Deployable structures, Control
4	COOLS Mario	Transport and mobility	Transport - Mobilité/mobility - Véhicules autonomes/autonomous vehicles - Mobilité intelligente/Smart mobility
5	DEWALS Benjamin	Fluvial dike breaching due to overtopping: how different is it from dam breaching ?	Experimental modelling - Sediment transport - Flood risk - Resilience - Laser profilometry
6	DONNET Benoit	TreeNET: a subnet-based discovery tool	Topology discovery - Alias resolution - Traceroute - TreeNET
7	DUCHENE Laurent	Modeling Material Mechanical Behavior at Various Length Scales	Mechanical behavior - Numerical modeling - Finite Element Method - Multi-scale analysis - Fatigue
8	DUYSINX Pierre	Structural Optimization and Automotive of the Future	Structural Optimization - Automotive Engineering - Additive Manufacturing - Automotive propulsion systems - Lightweight design
9	ELSEN Catherine	LUCID (Smart Cities)	Smart city - Méthodes participatives - Co-design
10	EMBRECHTS Jean-Jacques	Audio and acoustic engineering	Audio engineering - Applied acoustics - Room acoustics - Noise engineering - Microphones array
11	ERPICUM Sébastien	HECE - Experimental study of flowing nappe oscillations / HECE - Etude expérimentale de l'oscillation des nappes minces d'écoulement	Hydraulic constructions/Constructions hydrauliques - Civil engineering/Génie civil - Spillway/Déversoir
12	GERIS Liesbet	Biomechanics and computational tissue engineering	Tissue engineering - Modeling - Biomechanics
13	GEUZAINÉ Christophe	Applied and Computational Electromagnetics (ACE)	Electromagnétisme - Mathématiques appliquées - Calcul scientifique - Simulation numérique - Laboratoire de mesure
14	GILET Tristan	Microfluidics Lab	Microsystems - Fluid dynamics - Surface tension

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15	GOLINVAL Jean-Claude	Vibrations et Identification des Structures	Structural Dynamics - Mechanical Vibrations - Modal Testing - Mechanical system Identification
16	HABRAKEN Anne Marie	Process simulations	Procéde de mise à forme - Modélisation éléments finis - Métaux - 3D Printing - Incremental Sheet Forming
17	JOB Nathalie	Department of Chemical Engineering - NCE - Electrochemical engineering	Fuel cells - Batteries - Supercapacitors - Electrochemical engineering
18	KERSCHEN Gaëtan	Space Structures and Systems Laboratory	Aerospace structures - Vibrations - Orbits - Nanosatellites
19	LAMBERT Stéphanie	Synthesis of tailored materials by the sol-gel process	Sol-gel - Catalysis - Nanomaterials - Environment - Engineering
20	LÉONARD Angélique	Ph.D. Opportunities in the PEPs Group: Products, Environment, and Processes	Process - Environnement - Products
21	LÉONARD Grégoire	Sustainable Process Intensification for Carbon and Energy Systems	Energy Transition - CO2 capture - CO2 re-use - Energy storage
22	LOUPPE Gilles	Automating Science with Artificial Intelligence	Artificial intelligence - Machine learning - Physical sciences
23	MERTENS Anne	Metallic Materials Science Unit (MMS)	Macro-properties - Microstructural characterisation - Optimisation of processing parameters - Additive manufacturing - Materials
24	NOELS Ludovic	Computational & Multiscale Mechanics of Materials	Computational Mechanics - Multiscale - Engineered materials
25	PFENNIG Andreas	Next Generation Processes: Separation and Purification for Efficient Circular Economy	Bio-based processes - Waste2value - Exergetic evaluation
26	PHILLIPS Christophe	Biomedical Engineer Research In Neuro-Science	Neuro-imaging - Image processing - Neuro-science - Electro-physiology - Brain modelling
27	PIROTTON Michel	1D shallow Water model for industrial practice Application to the river Romanche	Rivers - Numerical modelling - Management - Hydroelectricity
28	PONTHOT Jean-Philippe	Mécanique numérique	Simulation des procédés de mise en forme, y compris l'additive manufacturing - Crash et impact - Méthodes particulières (PFEM, SPH...) - Interactions fluides-structures et algorithmes de couplage de codes - Biomécanique

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29	REITER Sigrid	LEMA	Energie - Confort thermique - Analyse en cycle de vie
30	RUFFONI Davide	Bio-inspired materials: learning from nature and applying the lesson	Bio-inspired materials - Biological materials - Biomechanics - 3D printing
31	TERRAPON Vincent	Multiphysics and Turbulent Flow Computation (MTFC)	Simulations - Computational Fluid Dynamics (CFD) - Turbulence - Fluid mechanics
32	TOYE Dominique	Génie des réacteurs chimiques	Réacteurs et bioréacteurs - Techniques de visualisation avancées - Caractérisation des écoulements - Biotechnologie - Intensification des procédés
33	VAN CUTSEM Thierry	Dynamic Modelling of Active Distribution Networks	Electric power systems - Active distribution networks - Inverter-based generation - Uncertain dynamic systems - Reduced-order model identification
34	VAN DER BEMDEN Philippe	Electrical Measurements and instrumentation laboratory	Electrical measurements, Instrumentation, Materials, Superconductors
35	VAN DER HEYDEN Benoit	Electronics	Superconductors - Semiconductors - Electromagnetism