



11-12 September 2014, Neuchâtel (Switzerland)

# Biomimetics: Inspiration for the engineer

Thursday, 11<sup>th</sup> September, 2014

8h45	Coffee and welcome
9h00	<b>Introduction</b> : <u>Pierre-André Farine</u> , EPFL, Co-responsible of the Collegium SMYLE
9h10 –9h45	<b>Biomimicry: a tool or a philosophy?</b> <u>Gauthier Chapelle</u> , Biomimicry Europa, <a href="http://www.biomimicry.eu">www.biomimicry.eu</a>
9h45 –10h20	<b>Challenges when transferring skills from humans to robots</b> <u>Aude Billard</u> , EPFL, <a href="http://lasa.epfl.ch">http://lasa.epfl.ch</a>
10h20 –10h50	Coffee break
10h50 –11h25	<b>Locomotion control in natural and artificial systems</b> <u>Auke Jan Ijspeert</u> , EPFL, <a href="http://biorob.epfl.ch">http://biorob.epfl.ch</a>
11h25 –12h00	<b>Biomimetic robots and visual sensors account for insect's behaviors</b> <u>Franck Ruffier</u> , Institut des Sciences du Mouvement, <a href="http://www.ism.univmed.fr">www.ism.univmed.fr</a>
12h00	Lunch
14h00 –14h35	<b>Biomimetic in Photonic</b> <u>Serge Berthier</u> , Institut des nanosciences de Paris, <a href="http://www.insp.upmc.fr">www.insp.upmc.fr</a>
14h35 –15h10	<b>Seeing chips</b> <u>Tobi Delbrück</u> , Institute of Neuroinformatics, <a href="http://www.ini.uzh.ch">www.ini.uzh.ch</a>
15h10 –15h45	<b>Challenges for Laser machining in Osteotomy</b> <u>Alfredo Bruno</u> , Advanced Osteotomy Tools - AOT AG, <a href="http://www.aot-swiss.com">www.aot-swiss.com</a>
15h45 –16h15	Coffee break
16h15- 17h45	<b>Short oral presentations and poster session 1<sup>st</sup> group</b>
19h15	Cocktail



## Friday, 12<sup>th</sup> September, 2014

8h45	Coffee and welcome
9h00 –9h35	<b>Ethical issues in professional engineering practise: an overall approach</b> <u>Patrick Simonnin</u> , Département d’Ethique, UC de Lille, <a href="http://www.univ-catholille.fr">www.univ-catholille.fr</a>
9h35 –10h10	<b>Is green agriculture possible? Recent progress and challenges of agriculture robots</b> <u>Steve Tanner</u> , ecoRobotix Ltd, <a href="http://www.ecorobotix.com">www.ecorobotix.com</a>
10h10 –10h35	Coffee break
10h35 –11h10	<b>Engineering ethics</b> <u>Eric Favre</u> , Laboratoire Réactions et Génie des Procédés, <a href="http://lrgp.univ-lorraine.fr">http://lrgp.univ-lorraine.fr</a>
11h10 –12h10	<b><u>Short oral presentations and poster session 2<sup>nd</sup> group</u></b>
12h15	Lunch
13h45 –14h20	<b>Ethic of research in robotic</b> <u>Raja Chatila</u> , Allistène et UPMC-CNRS, <a href="http://www.isir.upmc.fr">www.isir.upmc.fr</a> et <a href="http://www.allistene.fr">www.allistene.fr</a>
14h20 –14h55	<b>Le projet biomobile : vers une mobilité "zéro" fossile ?</b> <u>Michel Perraudin</u> , Biomobile, <a href="http://www.biomobile.ch">www.biomobile.ch</a>
15h00 –16h00	<b><u>Short oral presentations and poster session 3<sup>rd</sup> group</u></b>
16h00	Coffee break and end