**Cutting-Edge Solutions for Medical Technology**

**Sim4Life User Workshop 2018**

Wednesday, June 20, 18:30 – 20:45  
Room Les Loges / Mercure Paris Vaugirard Porte de Versailles, Paris

**Agenda**

18:30 – 18:35  Welcome  
*Michael Oberle, ZMT Zurich MedTech AG, Switzerland*

18:35 – 18:55  MRI RF Coil Simulation: Industry Perspective at Philips-Invivo  
*Keynote Speaker: Scott King, Philips Healthcare, USA*

18:55 – 19:10  *In Silico* Assessment in MRI: Applications, Challenges and Needs  
*Desmond Yeo, GE Global Research, USA*

19:10 – 19:25  Update on MRI Safety Standards  
*Michael Steckner, Canon Medical Research, USA*

19:25 – 19:45  Break

19:45 – 20:00  Next Level of Virtual Population: Functionalized Anatomical Models for *in silico* MRI  
*Bryn Lloyd, IT’IS Foundation, Switzerland*

20:00 – 20:15  RF & Gradient MRI Safety Evaluation of AIMG  
*Louai Al-Dayeh, Boston Scientific Neuromodulation, USA*

20:15 – 20:35  Synergistic Framework for Comprehensive *in silico* Trials  
*Earl Zastrow, IT’IS Foundation, Switzerland*

20:35 – 20:45  Sim4Life Roadmap: Selected Features of Upcoming Releases  
*Erdem Oflı, ZMT Zurich MedTech AG, Switzerland*

To register, please send an email to sim4l-sales@zurichmedtech.com

**Directions to the User Workshop**

Mercure Paris Vaugirard Porte de Versailles  
69 boulevard Victor  
Paris  
Room: Les Loges

The hotel is within 10 minutes walking distance from the main venue.
V4.0 Release Highlights

**Sim4Life Optimizer**
The new Sim4Life Optimizer provides the most effective solution for optimization of virtual prototypes of real-world devices or medical treatments, as well as safety evaluations. It is the first tool of its kind, enabling visualization of multi-parameter / multi-goal optimization results in real-time.

**Sim4Life NEURO**
Sim4Life NEURO provides the fastest and most versatile way for neuronal dynamics simulation, a prerequisite for any reliable simulations incorporating complex neuro-functionalized anatomical human models. Realistic investigations of neuro-stimulation by multiple, complex electric fields generated by x/y/z magnetic resonance imaging (MRI) gradient coils are possible for the first time.

**Virtual Population V3.x**
Sim4Life now permits the use of Boolean operations with complex surface-based anatomical models, such as the ViP v3.x. This solution enables to adapt and modify different organs for application and device-specific simulations, while preserving the integrity of the surrounding tissues/anatomy. The availability of tissue elemental composition properties permits the use of ViP v3.x models for ionizing radiation studies.

**MRixVIP and IMAnalytics**
MRixVIP contains precomputed standard libraries of radiofrequency (RF)-induced electromagnetic field distributions inside the human body, resulting from exposure to a representative set of RF birdcage coils used in MRI scanners for 1.5T and 3T. The integration of the libraries with the IMAnalytics enables users to scale-up Tier 2 and 3 evaluations of implants according to ISO/TS 10974 without loss of full data traceability. Device evaluation in hours instead of months!

Those are just some of the many new features that will be available in the Sim4Life V4.0 release! To learn more, visit our website www.zurichmedtech.com or come visit us at booth 433 at ISMRM 2018.