

Cutting-Edge Solutions for Medical Technology

Sim4Life User Workshop 2018

Visit us at
ISMIRM 2018
Booth No. 433

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 AIMD
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 Ofli, ZMT Zurich MedTech AG, Switzerland

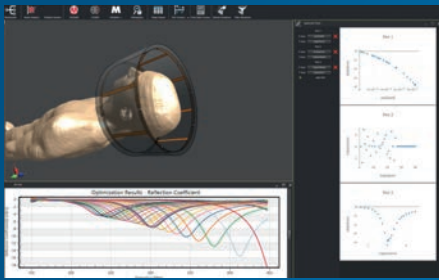
To register, please send an email to s4l-sales@zurichmedtech.com

Directions to the User Workshop

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

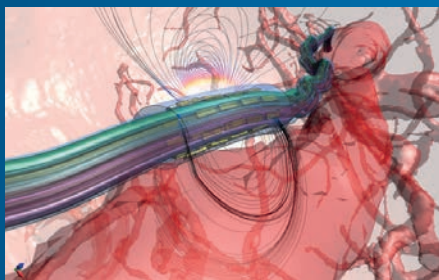
The hotel is within 10 minutes walking distance from the main venue.





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.



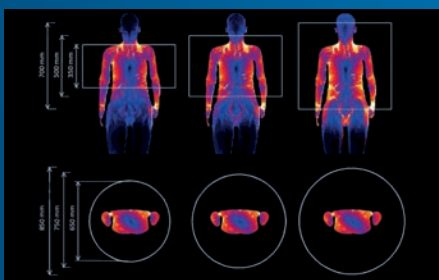
Sim4Life NEURO

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**.