

INTERNATIONAL MICROFLUIDICS CONGRESS

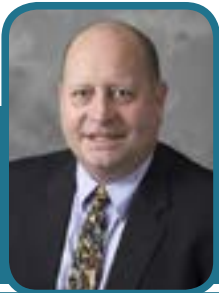
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International Conference on

ADDICTION RESEARCH AND THERAPY

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San Diego, USA



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Surface evolver modeling of capillary micro-channels

This workshop seeks to help researchers overcome the most common obstacle for new users of Surface Evolver. That is, new users easily download and install the code, run the demos, but then are unable to efficiently move into performing original capillary fluids modelling efforts in their own geometries. Practical advice in the basics of defining geometries, wetted surface energies, mesh management, evolving towards a solution, and assessing convergence

are taught. Examples in capillary microchannels are used throughout to provide attendees the examples meaningful to their field of research. Attendees are encouraged to download and install the free Surface Evolver code from its creator's web site and run the cube and mound demos before the workshop. Lessons and examples from microchannels porous media, and fundamental fluid phenomena are used.

Biography

Steven H Collicott is in his 28th year as a Professor in the School of Aeronautics and Astronautics at Purdue University and is now also the Associate Head for Engagement. His research focuses on capillary fluid physics in spaceflight and on Earth. He consulted on the design of the successful Vane-Gap payloads in the International Space Station, has flown nearly 40 parabolic flight experiments and 10 commercial sub-orbital rocket experiments. He chairs the Sub-Orbital Advisory Group of the Commercial Spaceflight Federation and serves on the Science and Technology Advisory Panel for CASIS.

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