

Der Lehrstuhl für Strömungsmechanik und Strömungstechnik veranstaltet

am Montag, 06. Juli, um 15:00 Uhr s.t. ein

Gastseminar im Raum G03-214.

(Zusätzlich via Zoom unter <https://ovgu.zoom-x.de/j/61227632087> , Kenncode: fluids)

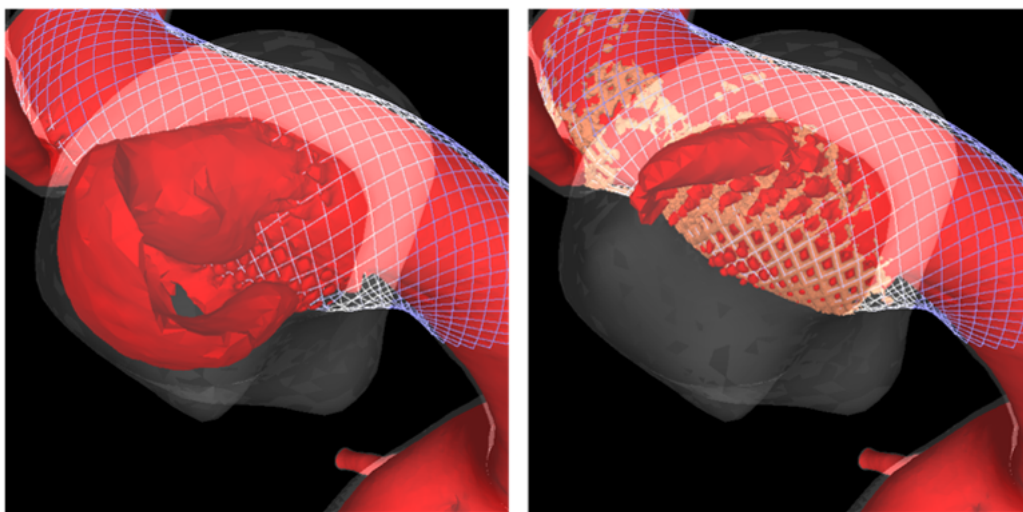
Modeling Fibrin Deposition on Flow Diverters

Prof. Juan R. Cebal

Departments of Bioengineering and Mechanical Engineering

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Guided by in vitro experiments, we developed a numerical model of fibrin production and accumulation on flow diverting devices used for aneurysm treatment and studied its interaction with the post-implantation hemodynamics to better understand the mechanisms of aneurysm occlusion or continued patency.



Guest Speaker: Prof. Juan R. Cebal

Dr. Juan R. Cebal is a Professor with the Departments of Bioengineering and Mechanical Engineering of the College of Engineering and Computing at George Mason University. He finished his undergraduate studies in Physics at the University of Buenos Aires, Argentina in 1991 and received his PhD in Computational Sciences and Informatics from George Mason University in 1996. Dr. Cebal conducts research on image-based patient-specific computational fluid dynamics modeling of cerebral blood flow and aneurysms in close collaboration with clinicians and medical researchers from several institutions. He is also a member of the Center for Computational Fluid Dynamics of the College of Sciences at GMU. He has co-authored over 170 journal papers, 10 book chapters, and over 230 conference papers. His current h-index is 67. He is a fellow of the American Institute of Medical and Biological Engineering (AIMBE). His research has been funded by the National Institutes of Health, the American Heart Association, the Whitaker Foundation as well as industrial partners such as Philips Healthcare and Boston Scientific. He teaches courses in Fluid Mechanics, Biomechanics and Transport, and Multi-Scale Modeling in Biomedicine.