Conrad M. Zapanta

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B.S. Mechanical Engineering (Option in Biomedical Engineering), Carnegie Mellon University, 1991
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Dr. Zapanta's primary teaching responsibility is to develop laboratory classes for undergraduates in the Department of Biomedical Engineering. Additional teaching interests include medical device design education, biomedical engineering design, and professional issues in biomedical engineering. Dr. Zapanta's responsibilities as Associate Department head include coordination of undergraduate curriculum, undergraduate student advising, and class scheduling.

Dr. Zapanta's research interests are in developing medical devices to treat cardiovascular disease, focusing on the areas of cardiac assist devices and prosthetic heart valves.

Dr. Zapanta is an active member in the American Society for Artificial Internal Organs, American Society of Mechanical Engineers, and the American Society for Engineering Education. He is a reviewer for several biomedical engineering journals. Dr. Zapanta also serves as a reviewer for the National Institute of Health (NIH), Cardiovascular Sciences Small Business Special Emphasis Panel.

Publications

1. Jahanmir S, Hunsberger AZ, Heshmat H, Tomaszewski MJ, Walton JF, Weiss WJ, Lukic B, Pae WE, Zapanta CM, Khalapyan TZ. Performance characterization of a rotary centrifugal left ventricular assist device with magnetic suspension. *Artificial Organs*. 32(5):366-375, 2008.
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10. Yamanaka H, Rosenberg G, Weiss WJ, Snyder AJ, Zapanta CM, Siedlecki CA. Multiscale analysis of surface thrombosis *in vivo* in a left ventricular assist system. *ASAIO Journal*, 51(5), 567-577, 2005.
11. Zapanta CM. Effects of atrial arrhythmias on the *in vitro* performance of a monoleaflet heart valve. *Artificial Organs*, 29(8), 636-641, 2005.
12. Zapanta CM, Snyder AJ, Weiss WJ, Cleary TJ, Reibson JD, Rawhouser MA, Lewis JP, Pierce WS, Rosenberg G. Durability testing of a completely implantable electric total artificial heart. *ASAIO Journal*, 51(3), 214-223, 2005.
13. Ündar A, Zapanta CM, Reibson JD, Souba M, Lukic B, Weiss WJ, Snyder AJ, Kunselman AR, Pierce WS, Rosenberg G, Myers JL. Precise quantification of pressure-flow waveforms of a pulsatile VAD during chronic support. *ASAIO Journal*, 51(1), 56-59, 2005.
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