

Neural Prosthesis Seminar

**“Neuromorphic Design & Neural
Prostheses for Restoring
Sensorimotor Function”**

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Biomedical Research Building • BRB 105
Case Western Reserve University



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Abstract:

Engineering techniques can play a role in understanding biological systems, mimicking biological processes, and intervening to restore function after trauma. Computational models allow us to investigate the underlying mechanisms for neural control as well as the adaptive or maladaptive biological processes. Such models can be used to design neuromorphic technology that mimics biological systems. Neural prostheses, incorporating neuromorphic approaches into system design can be used to interact with the nervous system. This talk will present some of our work in using neural models, designing neuromorphic systems and developing neural prostheses, as well as provide an overview of an on-going project that is developing and implementing a novel neural prosthesis directed at improving the functionality of artificial limbs by providing sensory feedback to the user.

For more information, please contact Cathy Naples at (216) 707-6490.

Live stream video link for each lecture at www.FEScenter.org/Seminar