



5th Minnesota Neuromodulation Symposium April 13 - 14, 2017 Minneapolis, USA

Symposium Chair

Bin He

McKnight University Professor
Director, Institute for
Engineering in Medicine
University of Minnesota

International Program Committee

Ted Berger

Marom Bikson

Chad Bouton

Ed Boyden

Lei Ding

Dominique Durand

Mark George

Warren Grill

David Jiles

Nick Langhals

Chin-Teng Lin

Alvaro Pascual-Leone

Nigel Lovell

Cameron McIntyre

David J. Mogul

Michael Nitsche

Hunter Peckham

Jose Principe

Nitish Thakor

Garrett Stanley

Shanbao Tong

John B. Troy

Philip Troyk

Shoogo Ueno

Greg Worrell

Abstract Submission Deadline:

January 9, 2017

Travel Award Deadline:

January 9, 2017

Early Registration Deadline:

March 1, 2017

Neuromodulation is a rapidly-growing field, encompassing a wide spectrum of implantable and non-invasive technology-based approaches for the treatment of neurological and psychiatric disorders. Advancing the field of neuromodulation represents challenges in developing engineering methodologies, understanding mechanisms of neuromodulation at cellular and system levels, clinical translation to treat patients, and shaping the regulatory process for emerging technologies and approaches. The Symposium is aimed at bringing together basic scientists, engineers, clinicians, industrial practitioners and entrepreneurs to discuss challenges and opportunities in neuromodulation, including but not limiting to DBS, TMS, tDCS/tACS, FUS, optogenetics, engineering methods for neuromodulation such as modeling, electrode designs and imaging, as well as neuroscience mechanisms of neuromodulation. The Symposium series has been sponsored by the Institute for Engineering in Medicine, and technically co-sponsored by IEEE EMBS and Medical Alley in the past.

Original contributions in any area of neuromodulation are invited. Authors should submit 1-page abstract by Jan 9, 2017. All submissions will be peer reviewed, and those receiving the highest scores will be selected for the plenary Highlight Talk session. Students/postdocs are eligible for the Poster Competition. Up to 10 Travel Awards will be provided to domestic (\$750) or international (\$1250) students/postdocs.

Website: <http://neuromodulation.umn.edu/>

Plenary Speakers



Mark Hallett, MD

Chief, Human Motor Control Section
National Institute of Neurological Disorders and Stroke (NINDS)
National Institutes of Health (NIH)
President, International Federation of Clinical Neurophysiology



Helen Mayberg, MD

Professor of Psychiatry, Neurology and Radiology
Dorothy Fuqua Chair in Psychiatric Neuroimaging and Therapeutics
Member, National Academy of Medicine
Emory University



Walter Paulus, MD, PhD

Professor of Clinical Neurophysiology
Director of the Department of Clinical Neurophysiology
University Medical Center Gottingen



William Tyler, PhD

Associate Professor
School of Biological and Health Systems Engineering
Arizona State University



Jerrold Vitek, MD, PhD

McKnight Professor and Chair
Department of Neurology
University of Minnesota School of Medicine

