

Date	Speaker	Speaker Affiliation	Speaker title	Talk title	Alumni
9/20/13	Timothy P. Harrigan, PhD	Johns Hopkins Applied Physics Laboratory	Professional Staff	Effect of Skull Flexural Properties on Brain Response During Dynamic Head Loading	
11/1/13	Alex Zhou and Andrzej Przekwas	CFD Research Corp.		Warfighter Biodynamics, Fatigue and Injury Protection: Modeling Perspective	
11/8/13	Anthony W. Wren	Inamori School of Engineering, Alfred University	Assistant Professor of Biomaterials	Biomaterials from Glass!	
11/22/13	A.M. Kuthe	Visvesvaraya National Institute of Technology, Nagpur, India		Rapid Prototyping Assisted Fabrication of the Customized Metatarsophalangeal Joint Implant (SamKu): A Case Report	
12/6/13	Herb B. Sun	Albert Einstein College of Medicine / Montefiore Medical Center	Director of Orthopedic Research	An Integrated and Translational Approach to Orthopaedic Diseases and Cancer	
12/13/13	Sheldon Weinbaum	City College	Emeritus CUNY Distinguished Professor of Biomedical & Mechanical Engineering	New perspectives in vulnerable plaque rupture, the largest cause of cardiovascular death	
2/21/14	Angelica L. Gonzalez-Simon	Yale University	Biomedical Engineering, Program in Vascular Biology and Therapeutics	Modeling Human Microvasculature: Composite Cellular and Matrix Structures Regulate Leukocyte Recruitment	
3/12/14	Hanns Plenk	Medical University of Vienna, Austria	University Professor, Bone & Biomaterials Research Laboratory, Institute for Histology & Embryology	Histomorphologic and Histometric Evaluation of Bone Substitute Materials	
4/4/14	Rhonda D. Prisby	University of Delaware - Newark	Assistant Professor, Department of Kinesiology & Applied Physiology	Bone Circulation, Bone Blood Vessels, and Bone	
5/2/14	Prashant N. Kumar	University of Pittsburgh	Edward R. Weidlein Chair Professor, Swanson School of Engineering and School of Dental Medicine	Nanostructured Materials for Mineralized Tissue Engineering – An Experimental and Theoretical Perspective	
10/17/14	Lynne C. Jones	Johns Hopkins University School of Medicine		Bioengineering and Teamwork: Bone Grafts, Tissue Engineering, and Prosthetic Design	
11/21/14	Clifford Les	College of Veterinary Medicine, Michigan State University		Wolff's Pretty Good Guess: What exactly are the design criteria for bone?	
12/5/14	Ashish Raj	Weill Cornell Medical College	Associate Professor of Computer Science in Radiology and Neuroscience, Co-Director, Image Data Evaluation and Analytics Lab (IDEAL)	Graph Theoretic Models for Exploring Brain Function and Disease	

1/23/15	Matei Ciocarlie	Columbia University	Assistant Professor, Robotic Manipulation and Mobility Lab, Department of Mechanical Engineering	Brain-Machine Interfaces for Robotic Manipulation: Tales from the Machine Side	
3/13/15	John Danias	SUNY Downstate Medical Center	Professor of Ophthalmology and Cell Biology, Co-Director of the Glaucoma Service, Department of Ophthalmology	Development of an artificial trabecular meshwork	
3/20/15	Rupak K. Banerjee	University of Cincinnati	Professor, Departments of Mechanical and Materials Engineering (primary) and Biomedical Engineering (secondary)	Improved Diagnosis of Coronary Artery Disease using combined functional-anatomical endpoints	
3/27/15	Sundeep Mangla	SUNY Downstate Medical Center	Director, Interventional Neuroradiology, Associate Professor of Radiology, Neurosurgery, and Neurology	Acute Stroke Neurointervention-Mechanical Embolectomy, Evolving Standards of Care: Concepts in Imaging and Device Development	
4/10/15	Vladimir Miskovic	SUNY Binghamton University	Assistant Professor, Department of Psychology	Natural Selective Attention in the Human Visual System	
5/29/15	Nancy Pleshko	Temple University	Professor of Bioengineering	Infrared Fiber Optic Probes for Evaluation of Musculoskeletal Tissue Pathology	
6/26/15	Richard Goldman	Parkell, Inc	Vice-President for Clinical Products	Research and Development of Modern Dental Products - from an Idea through the Lab and into the Clinical Market	
10/30/15	Alejandro J. Almarza	University of Pittsburgh	Associate Professor of Oral Biology and Bioengineering	Extracellular Matrix Scaffolds as a Template for Constructive Remodeling in the Temporomandibular Joint	
11/6/15	Kenneth R. Foster	University of Pennsylvania	Department of Bioengineering	Can A Person be Allergic to Electricity?	
11/20/15	Dan Nicolella	Southwest Research Institute	Institute Engineer and Manager, Musculoskeletal Biomechanics Section	A "Big Data" Biomechanical Approach to Understanding Complex Musculoskeletal Diseases	
12/4/15	Sudipta Seal	University of Central Florida	University Distinguished Professor and UCF Pegasus Professor	How one can change a nanoparticle behavior for angiogenesis.	
12/18/15	George J. Augustine	Nanyang Technological University, Singapore	Professor of Neuroscience and Mental Health, Lee Kong Chian School of Medicine	Optogenetic mapping of brain circuitry	

2/19/16	Hannah Dailey	Lehigh University	Assistant Professor, Mechanical Engineering & Mechanics	The Flexible Axial Stimulation (FAST) Intramedullary Nail: Case Study in Evidence-Based Design from Concept to Commercialization	
2/26/16	Daniel S. Oh	Columbia University Medical Center	Assistant Professor, Oral & Maxillofacial Surgery, College of Dental Medicine	Biogenic Microenvironment Scaffold: Bone Regeneration and Beyond	
3/18/16	Ozlem Yasar	New York City College of Technology	Assistant Professor, Mechanical Engineering, Technology & Industrial Design	Design and Fabrication of Nutrient Delivery Networks in Tissue Constructs	
4/22/16	Gilda A. Barabino	The City College of New York	Dean and Berg Professor, The Grove School of Engineering	Cell Biomechanics and Disease	
5/6/16	J. Christopher Fritton	Rutgers University	Assistant Professor, Department of Orthopaedics	Adaptations of Bone Tissue to Drugs	
5/20/16	Loren Latta	Mt. Sinai School of Medicine	Director, Max Biedermann Institute for Biomechanics	Understanding Biomechanical Models	
6/3/16	Mary F. Barbe	Temple University School of Medicine	Professor of Anatomy & Cell Biology	Use of a custom force-lever device and software for an operant rat model of work and use of radio-frequency nerve cuffs to assess efficacy of nerve regrowth in vivo in a surgery model.	
6/10/16	James Kozloski	T.J. Watson Research Center, IBM, Yorktown Heights, NY	Research Staff Member, Master Inventor	Brain Modeling with Multimodal, Multiscale Constraints	
9/16/16	Luis Martin Pendola	NYU College of Dentistry	Postdoctoral Fellow	The Role of Proteins in Biomineralization	*
11/18/16	Bradford Siff	Biowave Corporation (Norwalk, CT)	Founder and CEO	Entrepreneurship: The Development of a Neurostimulation Medical Device Company	
1/13/17	David N. Guilfoyle	Nathan S. Kline Institute for Psychiatric Research	Director, Center for Advanced Brain Imaging, Division of Medical Physics	High Field Magnetic Resonance Imaging and Spectroscopy of Rodent Models of Neuropsychiatric Disorders	
2/17/17	Gregory Konesky	Bovie Medical Corporation	Lead Scientist, J-Plasma Project	Medical applications of Cold Atmospheric Plasma	
3/31/17	Mulugeta Semework Abebe	Columbia University	Department of Neuroscience	Engineering Science: Border-neutral demands of neuroscience research	*
4/7/17	Randall Barbour, John Kral, and Jason Lazar	SUNY Downstate Medical Center	Departments of Pathology, Surgery and Cardiovascular Medicine	Description:fNIRS Imaging: a new disruptive technology born at SUNY Downstate	
5/12/17	Michael Wendler	Friederich-Alexander University, Germany	Professor of Operative Dentistry and Periodontology	Characterization of Residual Stresses in Zirconia Veneered Bilayers for Dental Restorations	

6/2/17	William Lytton	SUNY Downstate Medical Center	Professor, Physiology and Pharmacology, Neurology, Biomedical Engineering	Multiscale modeling for brain disease	
12/8/17	Eric L. Hargreaves	Rutgers University - Robert Wood Johnson Medical School	Clinical DBS Neurophysiologist, Director of the DBS Clinical Research Program	Deep Brain Stimulation (DBS) Basics for Parkinson's Disease, plus a little clinical research on the side...	
9/12/18	John Murray	Yale University School of Medicine	Assistant Professor of Psychiatry, Neuroscience, and Physics	Hierarchical specialization of human cortex	
1/30/19	Samuel Neymotin	Nathan Kline Institute for Psychiatric Research	Research Scientist	Using Biophysical Computational Neural Models to Investigate Neuropsychiatric Disorders	*
2/13/19	Eric L. Hargreaves	Robert Wood Johnson Medical School, Rutgers University	linical DBS Neurophysiologist and Director of the DBS Clinical Research Program, Division of Neurosurgery	Deep Brain Stimulation (DBS) Overview & Research: 1) Predicting Device Duration, 2) Clinical Impact of Interleaving Contact Configuration	
5/16/19	Panayiota Poirazi	Institute of Molecular Biology and Biotechnology (IBB), Foundation of Research and Technology-Hellas (FORTH), Heraklion, Crete, Greece	Computational Neuroscientist	Active dendrites and their role in neuronal and circuit computations	
9/25/19	Raj Vadigepalli	Thomas Jefferson University (Philadelphia)	Professor of Pathology, Cell Biology and Anatomy	Convergence of single cell assays, bioinformatics and simulation to study liver regeneration	
10/16/19	Xianlian Alex Zhou	New Jersey Institute of Technology	Associate Professor, Biomedical Engineering	Neuromusculoskeletal Biomechanics and Its Applications on Assistive Device Design and Rehabilitation	
10/30/19	Gunnar Cedersund	Linkoping University, Sweden	Group Leader, Integrative Systems Biology	Mechanistic modeling of the brain neurovascular coupling: Merging electrophysiology with fMRI	
11/13/19	Nikita Grigoryev	New York University/Tandon School of Engineering	Adjunct Professor, Chemical and Biomolecular Engineering Department	Synthetic Nanofiber-Hydrogel Hybrid 3D Scaffold for Glioblastoma In Vitro Modeling	
1/22/20	David Kaplan	Tufts University	Stern Family Professor in Engineering, Professor and Chair, Department of Biomedical Engineering	Tissue Engineering the Gut and Brain - Advances and Needs	
2/12/20	Salvador Durá-Bernal	SUNY Downstate Medical Center	Research Assistant Professor, Department of Neurology	Data-driven multiscale modeling of cortical circuits	