

International Academy of Medical and Biological Engineering

Affiliated with International Federation for Medical and Biological Engineering

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bout IAMBE	Annual	Symposium of International Academy of Medical and Biological Engineering
ist of Fellows		September 30, 2021
overning Council		
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nual Symposium		
	08:50-09:00	Welcome Remarks
		Bin He, PhD, IAMBE
		Trustee Professor of Biomedical Engineering, Carnegie Mellon University
		Symposium Chair, and 2018-2021 Chair, International Academy of Medical and Biological Engineering
	09:00-10:30	Session I: Medical Imaging and Health Engineering
		Moderator: Zhi-Pei Liang, PhD, IAMBE
		Franklin W. Woeltge Professor of Electrical and Computer Engineering, University of Illinois at Urbana- Champaign
		Chair-Elect, International Academy of Medical and Biological Engineering
	09:00-09:30	Keynote Talk: Using MRI to Assess Neurovascular Health and Disease
		Peter Jezzard, PhD, IAMBE
		Herbert Dunhill Professor of Neuroimaging, University of Oxford
		Editor-in-Chief, Magnetic Resonance in Medicine
	09:30-10:00	Keynote Talk: Cardiovascular Health Engineering: Wearable SUPER-MINDS for Combating CVD and COVID
		Yuan-Ting Zhang, PhD, IAMBE
		Chair Professor of Biomedical Engineering, City University of Hong Kong
		Chairman & Director of Hong Kong Center for Cerebro-cardiovascular Health Engineering
		Editor-in-Chief, IEEE Reviews in Biomedical Engineering
	10:00-10:30	Keynote Talk: Artificial Intelligence and the Future of Radiology
		Daniel Ruchert, PhD, IAMBE, FREng
		Alexander von Humboldt Professor for Artificial Intelligence, Technical University of Munich
		Professor of Visual Information Processing, Imperial College London
	10:30-11:30	IAMBE General Assembly (IAMBE Fellows only by separate Zoom meeting)
	11:30-12:30	Lunch Break
	12:30-13:30	Session II: Biomaterials and Tissue Engineering
		Moderator: Tejal Desai, PhD, IAMBE
		Ernest L. Prien Professor and Chair Department of Bioengineering, University of California at San Francisco
		President, American Institute of Medical and Biological Engineering
	12:30-13:00	Keynote Talk: Addressing Key Biological Barriers for Delivering mRNA, SiRNA and Antitumor Chemotherapeutic Agents in Health Disparities Populations
		Nicholas Peppas, PhD, IAMBE, NAE, NAM

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	Cockrell Family Regents Chair in Engineering, Professor of Biomedical Engineering and Chemical Engineering
	Director, Institute for Biomaterials, Drug Delivery and Regenerative Medicine
	University of Texas at Austin
13:00-13:30	Keynote Talk: Cell-Material Interactions and Women's Health
	Joyce Wong, PhD, IAMBE
	Professor of Biomedical Engineering, Boston University
	President-Elect, American Institute of Medical and Biological Engineering
13:30-14:30	Session III: Neural Engineering
	Moderator: Bin He, PhD, IAMBE
	Trustee Professor of Biomedical Engineering, Carnegie Mellon University
	2018-2021 Chair, International Academy of Medical and Biological Engineering
13:30-14:00	Keynote Talk: Signal Processing Challenges in Inferring Brain States
	Emery Brown, PhD, IAMBE, NAE, NAM, NAS
	Edward Hood Taplin Professor of Medical Engineering and of Computational Neuroscience, MIT
	Warren M. Zapol Professor of Anaesthesia, Harvard Medical School
	Director, Harvard-MIT Health Sciences and Technology Program, MIT
14:00-14:30	Kovnoto Talk: Modeling Brain Dynamics: Whore are we new?
14.00-14.30	Keynote Talk: Modeling Brain Dynamics: Where are we now?
	Jose Principle, PhD, IAMBE
	Distinguished Professor of Electrical and Computer Engineering, University of Florida
14:30-15:30	Session IV: Emerging Frontiers in Biomedical Engineering
	Moderator: Nitish Thakor, PhD, IAMBE
	Professor of Biomedical Engineering, Johns Hopkins University
	Vice President-Elect, IEEE Engineering in Medicine and Biology Society
14:30-15:00	Keynote Talk: Engineering the Artificial Pancreas
11100 10100	Frank Doyle, PhD, IAMBE, NAE, NAM
	John A. Paulson Dean of Engineering and Applied Sciences, Harvard University
15:00-15:30	Keynote Talk: Microbiomedical Implants for Blindness-causing Eye Diseases
	Yu-Chong Tai, PhD, IAMBE, NAE
	Anna L. Rosen Professor of Electrical Engineering and Medical Engineering
	Executive Officer, Department of Medical Engineering
	California Institute of Technology
15:30-15:45	Coffee Break
15:45-16:45	Session V: AI and Biomedical Computation
	Moderator: Metin Akay, PhD, IAMBE
	John S Dunn Endowed Chair Professor and Chair of Department of Biomedical Engineering, University of
	Houston
	2021-2024 Chair, International Academy of Medical and Biological Engineering
	President, IEEE Engineering in Medicine and Biology Society
15:45-16:15	Keynote Talk: AI-Enabled Personalized Computational Cardiology
	Natalia Trayanova, PhD, IAMBE
	Murray B. Sachs Professor of Biomedical Engineering and Medicine
	Director, Alliance for Cardiovascular Diagnostic and Treatment innovation (ADVANCE)
	Johns Hopkins University
16:15-16:45	Keynote Talk: Integrating BHI and AI for Combating Pandemics
	May Wang, PhD, IAMBE

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 Professor of Biomedical Engineering and Georgia Cancer Coalition Distinguished Cancer Scholar Georgia Institute of Technology 16:45-17:00 Concluding Remarks Metin Akay, PhD, IAMBE John S Dunn Endowed Chair Professor and Chair of Department of Biomedical Engineering, University Houston 2021-2024 Chair, International Academy of Medical and Biological Engineering President, IEEE Engineering in Medicine and Biology Society 		IAMBE: News	
16:45-17:00 Concluding Remarks Metin Akay, PhD, IAMBE John S Dunn Endowed Chair Professor and Chair of Department of Biomedical Engineering, University Houston 2021-2024 Chair, International Academy of Medical and Biological Engineering		Professor of Biomedical Engineering and Georgia Cancer Coalition Distinguished Cancer Scholar	
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John S Dunn Endowed Chair Professor and Chair of Department of Biomedical Engineering, University Houston 2021-2024 Chair, International Academy of Medical and Biological Engineering	16:45-17:00	Concluding Remarks	
Houston 2021-2024 Chair, International Academy of Medical and Biological Engineering		Metin Akay, PhD, IAMBE	
		John S Dunn Endowed Chair Professor and Chair of Department of Biomedical Engineering, University of Houston	
President, IEEE Engineering in Medicine and Biology Society		2021-2024 Chair, International Academy of Medical and Biological Engineering	
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