

2024 Neuro Innovate

July 18-19, 2024

Leighton Auditorium

Thursday, July 18, 2024	
7:30 a.m.	<i>Registration and Breakfast</i>
8:00 a.m.	Welcome & Introductions Mohamad Bydon, MD
8:20 a.m.	Pathway to Innovation at Mayo Clinic James A. Rogers, JD
8:40 a.m.	AI and Novel Devices in the Treatment to Epilepsy Gregory A. Worrell, MD, PhD
9:00 a.m.	The Role of AI Imaging Analysis in Neuroscience Bradley J. Erickson, MD, PhD
9:20 a.m.	A Neurosurgery Chair's Responsibility/Opportunity to Drive Innovation Robert Spinner, MD
9:40 a.m.	Innovation in Neuro-Oncology Gelareh Zadeh, MD, PhD
10:00 a.m.	<i>Break</i>
10:20 a.m.	Innovation in Neuroradiology Waleed Brinjikji, MD
10:40 a.m.	Automation Anjali Bhagra, MD, MBA
11:00 a.m.	Identification of Neuro Biomarkers for the Optimization of DBS in Parkinson's Disease Nuri F. Ince, PhD
11:20 a.m.	Panel: AI and the Threat to Humanity – Legal and Ethical Challenges with AI Moderator: Mohamad Bydon Legal: Erica Bisson, MD, MPH; Joshua B. Murphy, JD; Sachin Khanna
12:00 p.m.	<i>Lunch</i>
1:00 p.m.	Innovation at Medtronic Brett Wall
1:20 p.m.	Innovation in Orthopedic Surgery Brett Freedman, MD
1:40 p.m.	Mesmerise Dan Donovan
2:00 p.m.	The Importance of Data Acquisition in Spinal Surgery Steve Glassman, MD
2:20 p.m.	Center for Digital Health at Mayo AJ Forte, MD
2:40 p.m.	Mayo Clinic Platform Clark C. Otley, MD
3:00 p.m.	Demographic Disparities and Social Biases in AI Rohaid Ali, MD
3:20 p.m.	<i>Break</i>
3:40 p.m.	Problems in Neurosurgery that Need Technology Solutions Alexander A. Khalessi, MD, MS
4:00 p.m.	Digital Fluency in Neurosurgery Daniel Donoho, MD

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4:20 p.m.	Virtual Reality and Augmented Reality Jay Morris, MD
4:40 p.m.	AI in Healthcare Gunner Carlsson
5:00 p.m.	Closing Remarks Mohamad Bydon, MD
5:10 p.m.	<i>Adjourn</i>

Friday, July 19, 2024	
7:30 a.m.	<i>Breakfast</i>
8:00 a.m.	Welcome & Introductions Mohamad Bydon, MD
8:20 a.m.	Unid as Data Platform for Surgeons Sean Haag
8:40 a.m.	Robotic and Other Enabling Technologies for Neurosurgeons Bob Reddy
9:00 a.m.	Improving Surgical Outcomes within your Enterprise Cornelius A. Thiels, DO, MBA
9:20 a.m.	Innovation at Johnson & Johnson Michael Tracey
9:40 a.m.	Student Projects - (8 mins each, 2 mins for questions) Machine learning and MRI features in prediction of glioma resection- Destiny Green Optimizing Neurosurgical Operating Room Schedule: Integrating Machine Learning Models for Predicting Operative Time and Schedule Design - Karim Nathani Innovation at Medtronic Brett Wall
10:00 a.m.	<i>Break</i>
10:20 a.m.	Start-ups in Neurosurgery Kevin Foley, MD
10:40 a.m.	Mayo Research Shield Perspective on Data and Device Innovation Alfredo Quinones-Hinojosa, MD
11:00 a.m.	Advancing your Technology: How to Successfully Go from Idea to Product Barham K. Abu Dayyeh, MD, MPH
11:20 a.m.	Advanced Digital Healthcare in Neurosurgery Stryker
11:40 a.m.	Setting up a Departmental Registry Mohamad Bydon, MD
12:00 p.m.	Fueling Personalized Medicine with AI - NYU Tron Eric Oermann, MD
12:20 p.m.	Closing Remarks Mohamad Bydon, MD
12:30 p.m.	<i>Lunch (Boxed – takeaway)</i>