## WEDNESDAY, MARCH 13, 2024

4:00- 6:00 PM Registration

6:00- 7:30 PM Opening Reception

## THURSDAY, MARCH 14, 2024

7:00 AM		Registration and Continental Breakfast	
7:50		Welcome and Overview / Pre-test	Course Chairs
SESSION I			
8:00	1AM	Arterial and Venous Development and Embryology	Michihiro Tanaka, MD
8:20	5:20PM	Vascular Anatomy of the Arterial-Capillary and Capillary- Venous Units	Serge Bracard, MD
8:40	5:40PM	AVMs as a Venous Disease	Georges Rodesch, MD
9:00		Genetics and Genomics of AVM Vessels	Ethan Winkler, MD, PhD
9:20		Role of Inflammation in AVM Development and Rupture	Helen Kim, PhD
9:40		Medical Therapies for Intracranial Vascular Lesions	Daniel Cooke, MD
10:00		Coffee Break	
SESSION II			
10:15	7:20PM	Neurological Effects of Elevated Venous Pressure	Serge Bracard, MD
10:35	7:35PM	Risk for Hemorrhage from an Unruptured and Untreated Brain AVM	Michael Soderman, MD, PhD
10:55	3:55AM	Curative Treatment Approaches for Cerebral AVMs	Michihiro Tanaka, MD
11:15	8:15PM	Clinical Consequences of AVM Rupture	Michael Soderman, MD, PhD
11:35		Palliative Treatments for Incurable AVMs?	Steven Hetts, MD and Dan Cooke, MD
11:47		Panel Discussion and Abstract Presentations: 11:47-11:56- Ahmad Chehab 12:00-12:08- Keiko Fukuda	
12:20 PM		Adjourn	
		Afternoon free – recreation time Optional Product Theater (Industry-Supported Presentations)	
5:30		Share Your Cases: Faculty and Attendee Case Presentation and Discussion Technological Advances in AVM Embolization – Balloons, Embolic Agents, Approaches with Cases	Luis Savastano MD, PhD Dan Cooke, MD Daniel Raper, MD Kazim Narsinh, MD
7:00 PM		Adjourn	

## FRIDAY, MARCH 15, 2024

7:00 AM SESSION III		Continental Breakfast	
8:00	5PM	Natural History of Dural Arteriovenous Fistulas	Michael Soderman, MD, PhD
8:20		Identification of Shunting Lesions on Non-invasive Imaging: Signal and Image Processing Techniques and Technology Application	Yi Li, MD
8:40		Advanced Imaging and Applications – 4D Flow and Others	David Saloner, PhD
9:00		Angio-architecture of Dural Arteriovenous Connections	Kazim Narsinh, MD
9:20		Congenital Arteriovenous Shunting Syndromes – Genetic and Phenotypic Aspects	Heather Fullerton, MD and Joseph Shieh, MD, PhD
9:40		Coffee Break	
SESSION IV			
10:00		Pial AVMs and AVFs from a Surgical Perspective	Adib Abla, MD
10:20	7:20PM	Genetics of AVMs	Georges Rodesch, MD
10:40		Connections Between Cerebral Vasculature and Cerebral Tumorigenesis	David Raleigh, MD, PhD
11:00		Radiosurgery for Arteriovenous Shunting Lesions – Efficacy and Imaging Over Time	Nalin Gupta, MD, PhD
11:20		Panel Discussion and Abstracts: 11:20-11:28- Lindsay Park 11:32-11:40- Victoria Vuong	
12:00 PM		Adjourn  Afternoon free – recreation time  Optional Product Theater (Industry-Supported Presentations)	
5:30		Share Your Cases: Faculty and Attendee Case Presentation and Discussion - Endovascular Approaches to Non-Vascular Pathology (Hydrocephalus, Dementia, Macular Degeneration) with Cases	Luis Savastano MD, PhD Dan Cooke, MD Steven Hetts, MD Kazim Narsinh, MD
7:00 PM		Adjourn	

## SATURDAY, MARCH 16, 2024

7:00 AM SESSION V	Continental Breakfast	
7:55	Hemodynamics and Physiology of Cerebral Arterial and Venous Blood Flow	Luis Savastano MD, PhD
8:20	Glymphatic, Lymphatic, and Subarachnoid Lymphatic-like Membrane, and Neurovascular Applications	Daniel Raper, MBBS
8:40	Vessel Wall Imaging in AVMs	David Saloner, PhD
9:00	Pediatric Arteriovenous Shunts	Darren Orbach, MD, PhD
9:20	Liquid Embolic Agents – Similarities, Differences, and Application	Kazim Narsinh, MD
9:40	Coffee Break	
10:00	Complications of Embolization of Arteriovenous Shunts and How to Avoid Them	Seon-Kyu Lee, MD, PhD
10:20	Fetal Treatment for Vein of Galen Malformations	Darren Orbach, MD, PhD
10:40	Hereditary Hemorrhagic Telangiectasia: a Genetic Syndrome of Multi-Organ Arteriovenous Shunting and Non-Shunting Lesions	Steven Hetts, MD
11:00	Panel Discussion and Abstracts: 11:00-11:08- Alex Haddad 11:12-11:20- Jeyan Kumar	
11:30	Final Wrap-Up and Course Evaluation / Post-Test	
11:40 AM	Adjourn .	