Fifth Annual
Selected Topics in Neuroplastic & Reconstructive Surgery:
An International Symposium on Cranioplasty and Implantable Neurotechnology with Cadaver Lab

Presented by:
Department of Plastic-Reconstructive Surgery & Department of Neurosurgery
Section of Neuroplastic & Reconstructive Surgery
Johns Hopkins University School of Medicine

Jointly Provided by:
Society of Neuroplastic Surgery

November 2-3, 2019

General Session – November 2
The Rotunda
Joseph B. Martin Conference Center
at Harvard Medical School
Boston, Massachusetts

Hands-on Lab – November 3
Boston Bioskills Lab
Boston, Massachusetts

This activity endorsed by:
American Society of Maxillofacial Surgeons
American Society of Plastic Surgeons
Congress of Neurological Surgeons
Global Neuro
Society of Neuroplastic Surgery

This activity has been approved for AMA PRA Category 1 Credits™.
Modern-day cranioplasty, along with the burgeoning field of Neuroplastic and Reconstructive Surgery, is undergoing a significant paradigm shift related to various techniques, surgical advancements, implantable neurotechnology, and improved biomaterials. These changes have stimulated us to assemble premier thought leaders in various specialties including neurosurgery, neuroplastic surgery, craniofacial surgery, and plastic surgery to meet for the FIFTH annual symposium dedicated to the subjects of “cranioplasty”, “implantable neurotechnology”, and “neuroplastic surgery”—to be hosted this year at the Joseph B. Martin Conference Center at Harvard Medical School in Boston, Massachusetts. The faculty will gather to present evidence-based data on surgical approaches and state-of-the-art materials, engage and network within a broad array of colleagues and experts, and share high-yield experiences to help attendees improve their patient outcomes. Interactive panel discussions following each lecture will offer the opportunity to debate the evidence, exchange ideas, and gain invaluable insight to assist with the most challenging cases. This year’s symposium, along with an included abstract session, will engage an international faculty and audience consisting of neurosurgery, neuroplastic surgery, craniofacial surgery, plastic/reconstructive surgery, oral/maxillofacial surgery, biomedical engineering, neurology and neuro-oncology, to explore and elucidate the new insights and advances relative to skull reconstruction, cranial implants, and groundbreaking neurotechnologies. 

WHO SHOULD ATTEND

This activity is intended for residents, fellows and physicians in Neurosurgery, Neuroplastic and Reconstructive Surgery, Craniofacial Surgery, Plastic and Reconstructive Surgery, Otolaryngology—Head and Neck Surgery, Oral Maxillofacial Surgery and Biomedical Engineering.

OBJECTIVES

After attending this activity, the participant will demonstrate the ability to:

• Create a cranioplasty reconstruction management plan with or without implants, from peri- to postprocedural care.
• Discuss recent advances in cranioplasty, implantable neurotechnology, and neuro-cranial reconstruction, and how you may incorporate them into your practice.
• Translate cranioplasty and implantable neurotechnology research findings to improved outcomes based on recent evidence based literature.
• Employ cooperative learning to analyze practice barriers and apply appropriate solutions.

ACCREDITATION STATEMENT

The Johns Hopkins University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

CREDIT DESIGNATION STATEMENT

The Johns Hopkins University School of Medicine designates this Live activity for a maximum of 13.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CREDITS

American Nurses Credentialing Center (ANCC) accepts AMA PRA Category 1 Credits™ from organizations accredited by the ACCME.

American Academy of Nurse Practitioners National Certification Program accepts AMA PRA Category 1 Credits™ from organizations accredited by the ACCME.

National Commission on Certification of Physician Assistants (NCCPA) PAs may claim a maximum of 13.50 Category 1 credits for completing this activity. NCCPA accepts AMA PRA Category 1 Credits™ from organizations accredited by ACCME or a recognized state medical society.

This activity endorsed by:
POLICY ON SPEAKER AND PROVIDER DISCLOSURE

It is the policy of the Johns Hopkins University School of Medicine that the speaker and provider globally disclose conflicts of interest. The Johns Hopkins University School of Medicine OCME has established policies that will identify and resolve conflicts of interest prior to this educational activity. Detailed disclosure will be made prior to presentation of the education.

GENERAL INFORMATION

REGISTRATION
Saturday, November 2, 2019 • 6:00 – 7:00 a.m.

LOCATION
The Rotunda
Joseph B. Martin Conference Center at Harvard Medical School
77 Avenue Louis Pasteur
Boston, Massachusetts 02115

Johns Hopkins University is not affiliated with Harvard University, nor is this CME course hosted as a Harvard University program or activity.

Boston Bioskills Lab
27 Drydock Avenue
Boston, Massachusetts 02110

FEES

REGISTRATION CUT-OFF DATE: October 27, 2019
Register Online at: hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=18099

Methods of Payment: We require full payment prior to the start of the activity. Payment by check or credit card must accompany the registration form prior to the activity. The registration fee includes instructional materials, continental breakfasts, refreshment breaks and lunches.

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*with verification of status

You will receive a confirmation by e-mail. If you have not received it by October 27, 2019, call (410) 502-9636 to confirm that you are registered. A transcript of attendance will be available upon attestation of your credit hours and submission of the post activity online evaluation.

The Johns Hopkins University reserves the right to cancel or postpone any activity due to unforeseen circumstances. In this event, the University will refund the registration fee but is not responsible for travel expenses. Additionally, we reserve the right to change the venue to a comparable venue. Under such circumstances registrants will be notified as soon as possible.

ABSTRACT SUBMISSION

Award presentation for best abstract.
**LATE FEE AND REFUND POLICY**

A $50 late fee applies to registrations received after 5:00 p.m. ET on October 27, 2019. A handling fee of $50 will be deducted for cancellation. An additional fee may apply for cancellation of other events, including workshops and social activities. Refund requests must be received by fax or mail by October 27, 2019. No refunds will be made thereafter. Transfer of registration to another Johns Hopkins activity in lieu of cancellation is not possible.

**SYLLABUS**

The syllabus will be accessible online and via your mobile device in the CloudCME App prior to the activity.

**HOW TO OBTAIN CREDIT**

Post activity, an online evaluation will be available to attendees to evaluate the activity and individual presentations and to identify future educational needs. Upon completion of the evaluation, the learner must attest to the number of hours in attendance. Credits earned will be added to the learner’s transcript and immediately available for print. The last day to access the evaluation and attest to your credits is December 17, 2019.

An outcome survey will be sent to all physician attendees within two months post activity to assist us in determining what impact this activity had on the learner’s practice.

**EMERGENCY CALLS**

On November 2, 2019 direct emergency calls to the Hopkins registration desk, (617) 432-8990. On November 3, 2019 direct emergency calls to the Hopkins registration desk, (617) 409-7400. Messages will be posted for participants.

**AMERICANS WITH DISABILITIES ACT**

The Johns Hopkins University School of Medicine fully complies with the legal requirements of the ADA and the rules and regulations thereof. Please notify us if you have any special needs.

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**To Register or For Further Information**

Register Online (credit card and eCheck)

Register by Phone (credit card only).................................(410) 502-9636
Register by Fax..............................................................(866) 510-7088
Confirmation/Certificates...............................................(410) 502-9636
General Information......................................................(410) 955-2959
E-mail the Office of CME..................................................cmenet@jhmi.edu

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Check out our mobile app CloudCME.
Organization Code: HopkinsCME
### PROGRAM

**SATURDAY, NOVEMBER 2, 2019**

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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>6:00 – 7:00</td>
<td>Registration and Continental Breakfast</td>
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<tr>
<td>7:00 – 7:10</td>
<td>Welcome and Conference Goals</td>
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<td></td>
<td>Chad Gordon, DO, FACS</td>
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<tr>
<td>7:10 – 7:20</td>
<td>Opening Remarks</td>
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<td>Paul Manson, MD</td>
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<td>7:20 – 7:30</td>
<td>Chairman’s Welcome</td>
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<td>Henry Brem, MD and Bob Carter, MD, PhD</td>
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<td>7:30 – 7:45</td>
<td>Patient Experience with Neuroplastic Surgery</td>
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<td><em>Five minutes for Q&amp;A have been incorporated into the program</em></td>
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**Session 1: Discovery and Innovation in Neurotechnology**

**Moderators:** Jaishri Blakeley, MD, William Curry, MD, and John Laterra, MD, PhD

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<th>Time</th>
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<td>7:45 – 7:55</td>
<td>Precision Medicine for Brain Tumors: Genomics as a Tool</td>
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<td>Priscilla Brastianos, MD</td>
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<td>8:00 – 8:10</td>
<td>Ultrasound Modulation of Blood-Brain Barrier</td>
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<td>Chetan Bettegodwa, MD, PhD</td>
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<td>8:15 – 8:25</td>
<td>Neuronmodulation for Stroke Recovery</td>
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<td>Andre Machado, MD, PhD</td>
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<td>8:30 – 8:40</td>
<td>Sonoluent Cranial Implants</td>
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<td>Andrea Machnitz, MD</td>
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<td>8:45 – 8:55</td>
<td>Intracranial Ultrasound (IUS)</td>
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<td>Netanel Ben-Shalom, MD</td>
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<td>9:00 – 9:15</td>
<td>Refreshment Break</td>
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<td>9:15 – 9:25</td>
<td>Targeting Brain Cancer Stem Cells with mRNA Therapeutics</td>
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<td>Hernando Lopez-Bartoni, MD</td>
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<td>9:30 – 9:40</td>
<td>Nanoparticles for CNS Therapeutics</td>
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<td>Jordan Green, PhD</td>
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<td>9:45 – 9:55</td>
<td>Local Therapeutic Delivery in Brain Tumor Management</td>
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<td>Jon Weingart, MD</td>
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<td>10:00 – 10:10</td>
<td>Functional Cranial Implants with Power</td>
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<td>Chad Gordon, DO, FACS</td>
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<td>10:15 – 10:45</td>
<td>Fifth Annual Keynote Lectureship: Current Developments and Future Options for State-of-the-Art Brain Tumor Management</td>
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<td>Bob Carter, MD, PhD</td>
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**Session 2: Functional Neurosurgery and Cranial Implants**

**Moderators:** Gregory Bergey, MD, Pablo Celnik, MD, and Michael Yaremchuk, MD

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<th>Time</th>
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<tr>
<td>10:45 – 10:55</td>
<td>Brain-Computer Interfacing</td>
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<td>Nathan Crone, MD</td>
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<td>11:00 – 11:10</td>
<td>Brangate Neural Interface System</td>
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<td>Leigh Hochberg, MD, PhD</td>
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<td>11:15 – 11:25</td>
<td>Bilateral Neurostimulation for Quadriplegia</td>
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<td>William S. Anderson, MD, PhD</td>
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<td>11:30 – 11:40</td>
<td>Advances in Intracranial Technology for Epilepsy</td>
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<td>Dennis Spencer, MD</td>
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<td>11:45 – 11:55</td>
<td>Neuronmodulation for Epilepsy</td>
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<td>Ziv Williams, MD</td>
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<td>12:00 – 12:10</td>
<td>Laser Thermal Ablation for Epilepsy</td>
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<td>Mark Richardson, MD</td>
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<td>12:15 – 12:25</td>
<td>Focused Ultrasound for Movement Disorders</td>
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<td>Graeme Woodworth, MD, MD, FACS</td>
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<td>12:30 – 1:00</td>
<td>Lunch</td>
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**Session 3: Neurotechnology and Hydrocephalus**

**Moderators:** Eric Arnaud, MD, Jay Loeffler, MD, and Paul Manson, MD

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<th>Time</th>
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<tr>
<td>1:00 – 1:10</td>
<td>Neural Interfacing via Transparent Polymer Skulls</td>
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<td>Suhasa Kodandaramaiah, PhD</td>
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<td>1:15 – 1:25</td>
<td>Skin Sensing for Hydrocephalus Management</td>
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<td>Matthew Potts, MD</td>
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<td>1:30 – 1:40</td>
<td>Improving Outcomes with Hydrocephalus Shunts</td>
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<td>Mark Luciano, MD, PhD</td>
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<td>1:45 – 1:55</td>
<td>Updates in Optogenetics for Neuromodulation</td>
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<td>Ed Boyden, PhD</td>
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2:00 – 2:10 How to Integrate Neurotechnology Development with Neuroscience Delivery
Erol Veznedaroğlu, MD

2:15 – 2:30 Refreshment Break

Session 4: Pediatric Neurocranial Reconstruction and Neurotrauma
Moderators: Richard Redett, III, MD, Jesse Taylor, MD, and Nicholas Theodore, MD

2:30 – 2:40 Monobloc and LeFort Advancements
Anand Kumar, MD, FAACS, FAAP

2:45 – 2:55 Craniosynostosis and Pediatric Cranioplasty
Peter Taub, MD

3:00 – 3:10 Management of Civilian Neurotrauma
Bizhan Aarabi, MD

3:15 – 3:25 Managing Neurotrauma on the Battlefield
Albert Schuette, MD

3:30 – 3:40 Considerations in the Military Cranioplasty
Gabriel Santiago, MD

3:45 – 3:55 Scalp Expansion for Burn Patients
Matthias Donelan, MD

SUNDAY, NOVEMBER 3, 2019

LAB

7:00 – 7:45 Registration and Continental Breakfast

7:45 – 7:55 Welcome and Faculty Overview
Chad Gordon, DO, FACS

8:00 – 9:45 Session I: Neurosurgical Approaches to the Craniofacial Skeleton
1. Burr hole for Ventriculostomy Placement
2. Pterional Craniotomy for Trauma
3. Parasagittal Craniotomy
4. Bifrontal Craniotomy for Frontal Sinus Trauma
5. Orbital-zygomatic Osteotomy
6. Occipital Craniotomy
7. Posterior Fossa Craniotomy

9:45 – 10:00 Refreshment Break

10:00 – 11:45 Session II: Neurocranial Reconstruction and Cranioplasty Technique
1. Bifrontal Cranioplasty for Frontal Bone/Frontal Sinus Trauma
2. Pterional Cranioplasty Reconstruction with Customized Cranial Implant
3. Hemicranietomy Cranioplasty Reconstruction with Customized Cranial Implant
4. Single-stage Cranioplasty with Alloplastic Implant
5. Temporal Hollowing Correction with Methyl Methacrylate
6. Complex Scalp Reconstruction for Large Defects

11:45 – 12:00 Closing Remarks
12:00 Adjourn

The Johns Hopkins University School of Medicine takes responsibility for the content, quality and scientific integrity of this CME activity. The schedule is subject to change.
JOHNS HOPKINS UNIVERSITY
SCHOOL OF MEDICINE
Chad Gordon, DO, FACS
Director, Neuroplastic & Reconstructive Surgery
Associate Professor of Plastic Surgery and Neurosurgery
Fellowship Director, Neuroplastic & Reconstructive Surgery (Plastic Surgery)
Co-Director, Multidisciplinary Adult Cranioplasty Center (MACC)
Judy Huang, MD
Vice-Chair and Professor of Neurosurgery
Fellowship Director, Neuroplastic & Reconstructive Surgery (Neurosurgery)
Co-Director, Multidisciplinary Adult Cranioplasty Center (MACC)

HARVARD MEDICAL SCHOOL
William Curry, MD
Professor of Neurosurgery
Director, Neurosurgical Oncology
Co-Director, Mass General Neuroscience
Massachusetts General Hospital
Michael Yaremchuk, MD
Clinical Professor of Surgery
Chief, Craniofacial Surgery
Massachusetts General Hospital

FACULTY

JOHNS HOPKINS UNIVERSITY
SCHOOL OF MEDICINE
William S. Anderson, MD, PhD
Associate Professor of Neurosurgery
Chetan Bettegowda, MD, PhD
Associate Professor of Neurosurgery
Director, Meningioma Center
Gregory Bergey, MD
Professor of Neurology
Director, Johns Hopkins Epilepsy Center
Jaishri Blakeley, MD
Professor of Neurology
Director, The Johns Hopkins Comprehensive Neurofibromatosis Center
Henry Brem, MD
Professor of Neurosurgery
Director, Department of Neurosurgery
Justin Caplan, MD
Assistant Professor of Neurosurgery
Pablo Celnik, MD
Professor of Physical Medicine and Rehabilitation
Director, Center of Excellence in Stroke Treatment, Recovery and Rehabilitation
Nathan Crone, MD
Professor of Neurology
Co-Director, Epilepsy Fellowship Program
Jordan Green, PhD
Professor of Biomedical Engineering, Ophthalmology, Oncology, Neurosurgery, Materials Science & Engineering, and Chemical & Biomolecular Engineering
John Laterra, MD, PhD
Professor of Neurology
Co-Director, Brain Cancer Program
Johns Hopkins Sidney Kimmel Comprehensive Cancer Center
 Hernando Lopez-Bartoni, MD
Assistant Professor of Neurology
Mark Luciano, MD, PhD
Professor of Neurosurgery
Director, Cerebral Fluid Center
Paul Manson, MD
Distinguished Professor of Plastic and Reconstructive Surgery
Andrea Machnitz, MD
Assistant Professor of Radiology and Radiological Science
Kerry-Ann Mitchell, MD, PhD
Neuroplastic and Reconstructive Surgery Fellow
Debraj Mukherjee, MD, MPH
Assistant Professor of Neurosurgery
Director, Neurosurgical Oncology
Johns Hopkins Bayview Medical Center
Richard Redett, III, MD
Professor of Plastic and Reconstructive Surgery
Co-Director, Brachial Plexus Clinic
Kennedy Krieger Institute
Rafael Tamargo, MD
Walter E. Dandy Professor of Neurosurgery
Nicholas Theodore, MD
Professor of Neurosurgery
Director, Neurosurgical Spine Center
Jon Weingart, MD
Professor of Neurosurgery
Director, Neurosurgical Operating Room

HARVARD MEDICAL SCHOOL
William Austen, Jr., MD
Professor of Surgery
Chief, Plastic and Reconstructive Surgery
Chief, Division of Burn Surgery
Massachusetts General Hospital
Branko Bojovic, MD
Assistant Professor of Plastic and Reconstructive Surgery
Priscilla Brastianos, MD
Assistant Professor of Medicine
Assistant Physician in Medicine, Hematology/Oncology
Massachusetts General Hospital
Bob Carter, MD, PhD
Professor of Neurosurgery
Harvard Medical School
Chief, Neurosurgery Service
Massachusetts General Hospital
Matthias Donelan, MD
Associate Professor of Surgery
Chief of Staff
Shriners Hospitals for Children – Boston
Kevin Emerick, MD
Assistant Professor of Otolaryngology
Leigh Hochberg, MD, PhD
Senior Lecturer in Neurology
Professor of Engineering
Brown University
Director, Center for Neurotechnology and Neurorecovery, Neurocritical Care and Acute Stroke Services
Department of Neurology
Massachusetts General Hospital
Director, VA Rehabilitation R&D Service
Providence VA Medical Center
Jay Loefller, MD
Herman and Joan Suit Professor of Radiation Oncology
Chief, Radiation Oncology
Massachusetts General Hospital
Ziv Williams, MD
Associate Professor in Neurosurgery
REGISTRATION FORM

Fifth Annual Selected Topics in Neuroplastic & Reconstructive Surgery: An International Symposium on Cranioplasty and Future Neurotechnology with Cadaver Lab

November 2-3, 2019

To Register:
Online: hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=18099
FAX: (866) 510-7088, Phone: (410) 502-9636
Or mail this form to the Johns Hopkins University, Office of Continuing Medical Education, P.O. Box 64128, Baltimore, Maryland 21264-4128.
Include e-check or credit card information below.

FULL PAYMENT IS REQUIRED PRIOR TO THE START OF ACTIVITY.

☐ I am a Johns Hopkins speaker for this activity. Please type or print clearly

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☐ Check here if you wish to receive e-mail notices about upcoming CME activities.

What do you hope to learn by attending this activity?

________________________________________________________________________

Please notify us if you have any special needs.

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REGISTRATION FEES

| Physician – Saturday, November 2nd only | $420 | $495 |
| Physician – Sunday, November 3rd only  | $645 | $750 |
| Physician – Saturday and Sunday        | $1,075 | $1,200 |
| Residents*/Fellows*/Allied Health Professionals– Saturday, November 2nd only | $85 | $95 |
| Residents*/Fellows*/Allied Health Professionals– Sunday, November 3rd only | $90 | $100 |
| Residents*/Fellows*/Allied Health Professionals– Saturday and Sunday | $170 | $190 |

*with verification of status

Total amount enclosed $ __________

The registration fee includes instructional materials and food and beverage. For registrations received after 5:00 p.m. ET on October 27, 2019, include a $50 late fee. On-site registrations are payable only by credit card.

PAYMENT TYPE

☐ e-Check: Routing # __________ Account # __________
☐ Credit Card: VISA ☐ MASTERCARD ☐ DISCOVER ☐ AMEX
Card #: __________ Exp. Date __________
Billing Zip Code # __________ Security Code __________

□ JHU Faculty/Staff Only: If you are using your Tuition Remission Benefit or an ION budget, please upload your fully completed and approved form in the payment section of the online activity link above.

☐ TR Form: benefits.jhu.edu/documents/trfacandstaff.pdf
☐ ION Form: hopkinscme.edu/migration/IonRequest.pdf

Name on Card ___________________________ Signature and Date ___________________________
Fifth Annual

**Selected Topics in Neuroplastic & Reconstructive Surgery:**
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**November 2-3, 2019**

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hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=18099