It is hard to believe that our University of California Neurotrauma meeting has now reached its 20th anniversary. This year we are back in Santa Barbara at the newly renovated Hilton Santa Barbara Beachfront Resort.

I would like to thank Dr. Chris Giza for all his efforts in putting the program together. Also, I want to personally thank the Centre for Neuro Skills, under the direction of Dr. Mark Ashley, for their generous support of the meeting. If you have the opportunity I would ask that you not only thank Dr. Ashley for his continued support, but also take the time to visit one of their outstanding rehabilitation facilities.

As is our custom, the meeting will begin on Sunday afternoon featuring our Young Investigators, a session on Neuro-Nursing and some delightful “outside the box” talks from Drs. McArthur and Giza. This will be followed by “Hot off the Press” talks organized by Dr. Gómez-Pinilla. We are honored to have Kelly Conheeney as our dinner speaker discussing NCAA and Women’s Soccer. You will notice in the program that we have interesting and wide-ranging sessions scheduled on Monday and Tuesday mornings.

Some of you may have heard that I have retired. However, I am on call back and intend to remain the Director of the UCLA Brain Injury Research Center. It is my expectation that we will continue to have yearly meetings and I look forward to the continued vibrant success of all the faculty in the University of California system that conduct research on traumatic brain injury.

Please enjoy your time with us in Santa Barbara and give us your feedback as to what, if anything, you would like to change.

David A. Hovda, Ph.D.
Director, UCLA Brain Injury Research Center
12:00pm Deli lunch (Plaza Del Sol)
12:50pm Welcome and Opening Remarks - David Hovda, PhD (UCLA)

1:00–2:00 SESSION 1  
YOUNG INVESTIGATORS  
Chair: David Hovda, PhD (UCLA)
Air Travel after Sports Concussion  
Tara Sharma, MD (UCLA)

Building Neurotrauma Research Infrastructure: The CRC Perspective on Navigating Challenges and Collaboration to Maximize Study Success at a Level I Trauma Center - Leigh Thomas, BA, Sarah Runyon, BA & Dominica Randles, BS (UCSF)

Subject Retention in an Acute Observational Spinal Cord Injury Study: TRACK-SCI - Xuan Duong Fernandez, BA & Mark Harris, BA (UCSF)

2:00–3:00 SESSION 2  
NEURO NURSING  
Chairs: Courtney Real, RN, MSN (UCLA)
A Comparison of Indirect Calorimetry with Predictive Energy Equations in Patients with Moderate-Severe Traumatic Brain Injury Receiving Mechanical Ventilation - Erin Lavin, RD, CNSC & Lara Zimmermann, MD (UCD)

Building Resilience: Planning and Implementation of a Peer Support Program for the Healthcare Workers in the Neuroscience ICU  
Francis A. Saint Clair, RN, MSN (UCLA)

Aspects of Palliative Care in the ICU  
Kathleen Rodriguez, RN, BSN & Jacqueline Wangerin, RN, BSN (UCLA)

3:00 Break

3:15–4:45 SESSION 3  
GENERALLY IMPORTANT STUFF  
Those Beastly Reviewers…and What to Do Next?!  
David McArthur, PhD, MPH (UCLA)

Past, Present and Future of the University of California Neurotrauma Group  
Chris Giza, MD (UCLA)

4:45–5:45 "HOT OFF THE PRESS"  
Chair: Fernando Gómez-Pinilla, PhD (UCLA)

6:00 Dinner – Kelly Conheeney (NCAA and professional women’s soccer athlete)

7:30 am  Continental Breakfast (Plaza Del Sol)

7:00-9:15 SESSION 4  
RESEARCH, CLINICAL AND SOCIETAL IMPACTS OF CONCUSSION  
Chair: Tiffany Greco, PhD (UCLA)

Mild Traumatic Brain Injury: A Concensus of Mild TBI Concensus?  
Christine MacDonald, PhD (UCLA)

Is this Really a Concussion? Cases from Clinic - Carlin Senter, MD (UCSF)

Do Laws and Policy Changes Prevent Concussions? What is the Evidence?  
Cindy Chang, MD (UCSF)

9:15-10:30 SESSION 5  
BIOLOGY OF PERSISTENT-POSTCONCUSSIVE SYMPTOMS  
Chair: Meeryo Choe, MD (UCLA)

Post-Traumatic Headache Mechanisms - Andrew Charles, MD (UCLA)

Post-Concussive Autonomic Dysfunction - Aliah Snyder, PhD (UCLA)

Biomarkers of Persistent Post-Concussive Symptoms  
Jeff Bazarian, MD, MPH (U Rochester)

10:30 Break

10:45–12:00 SESSION 6  
PLASTICITY AND TBI SEQUELAE  
Chair: Annie Hoffman, PhD (UCLA)

Altered Oscillatory Activity Following TBI Coincides with Cognitive Deficits  
Ali Tadi, PhD (U Chicago)

Theta Frequency Modulation Following TBI - Gene Gurkoff, PhD (UCD)

Injury-Induced Circuit Disruption, Reorganization, and Rehabilitation for Somatosensation and Cognition - Jonathan Lifshitz, PhD (Barrow at PCH; UA)

Afternoon – On your own

FOR REGISTRATION INFORMATION PLEASE CONTACT:  
KATHRYN E. RASCO (310) 206–3480  
KRASCO@MEDNET.UCLA.EDU

7:00-9:15 SESSION 7  
ENGINEERING  
Chair: Christopher Giza, MD (UCLA)
Fluid Dynamics of Protein Polymerization and Aggregation  
Pirouz Kavehpour, PhD (UCLA)

Optical Spectroscopy of Breath Metabolites for Intensive Clinical Care  
Mitchell Spearin, PhD (UCLA)

8:50–10:05 SESSION 8  
INJURY, NEUROINFLAMMATION AND DEGENERATION  
Chair: Gene Gurkoff, PhD (UCD)
Look and You Will See: Neuroimaging Updates of Injury, Inflammation and Degeneration - Elisabeth Wilde, PhD (Utah)

Macrophages & Microglial Heterogeneity in TBI - Christine Hsieh, PhD (UCSF)

On the Outside Looking In: Brain Injury through the Lens of the Periphery and Gut-Brain Axis - Sonia Villapol, PhD (Houston Methodist Research Inst.)

10:05 am Break

10:25-12:00 SESSION 9  
POST-TRAUMATIC EPILEPTOGENESIS  
Chair: Neil Harris, PhD & Richard Staba, PhD (UCLA)

Development of an Analytical Pipeline to Discover New Therapies that Modify or Prevent the Development of Epilepsy after a Traumatic Brain Injury - Brian Rundle, PhD (UCLA)

Clinical Risk Prediction for Post-Traumatic Epilepsy - Adam Numis, MD (UCSF)

Quantitative Methods to Search for Biomarkers of Epileptogenesis after Traumatic Brain Injury - Mananipha La Rocca, PhD (UC)

The Craniectomy Procedure Affects the Occurrence of Acute EEG Seizures in a Traumatic Brain Injury Rat Model - Cesar Santana-Gomez, MSc, PhD (UCLA)

Injury - POST-TRAUMATIC EPILEPTOGENESIS  
Chair: Chris Giza, MD & Mayumi Prins, PhD (UCLA)

MODIFY OR PREVENT THE DEVELOPMENT OF EPILEPSY AFTER A TRAUMATIC BRAIN INJURY - BRIAN RUNDLE, PHD (UCLA)

ON THE OUTSIDE LOOKING IN: BRAIN INJURY THROUGH THE LENS OF THE PERIPHERY AND GUT-BRAIN AXIS - SONIA VILLAPOL, PhD (HOUSTON METHODOIST RESEARCH INST.)

12:00–12:15 SESSION 10  
SUMMARY AND PLANS FOR NEXT YEAR AND BEYOND  
Report back from Western Neurotrauma Symposium Working Group  
Chris Giza, MD & Mayumi Prins, PhD (UCLA)

12:15 - 12:30 pm  Closing Remarks - David Hovda, PhD (UCLA)