Military Vision Symposium

Tuesday, September 18, 2012

8:00 a.m. – 8:30 a.m.  Breakfast

Opening Session: Overview of Military & Civilian Ocular Research
Session Moderators: Darlene Dartt, Ph. D. & COL Donald Gagliano, M.D. M.H.A.

8:30 a.m. ~ 8:40 a.m.  Introduction
John Fernandez, President & CEO, Massachusetts Eye and Ear

8:40 a.m. ~ 8:55 a.m.  Congressional Perspective
Congressman Michael Capuano

8:55 a.m. ~ 9:15 a.m.  Welcome
Joan Miller, M.D.

9:15 a.m. ~ 9:35 a.m.  Future of US Army Medicine
COL Donald Gagliano, M.D., M.H.A.

9:35 a.m. ~ 9:55 a.m.  Political History of Center of Excellence and Research
Thomas Zampieri, Ph.D.

9:55 a.m. ~ 10:10 a.m.  Morning Break

Combat Ocular Readiness
Session Moderators: Ula Jurkunas, M.D. & LTC Michael Mines

10:10 a.m. ~ 10:40 a.m.  Keynote: Combat Ophthalmology
Col. Randall Beatty, M.D., F.A.C.S.

10:40 a.m. ~ 11:00 a.m.  Combat Eye Protection and Eye Injury Surveillance Update
Col. David Hilber, O.D., M.B.A., F.A.A.O.

11:00 a.m. ~ 11:20 a.m.  Collagen Cross-Linking for Keratoconus
Kathryn Colby, M.D., Ph.D.

11:20 a.m. ~ 12:00 p.m.  Panel Discussion
Dr. Beatty, Dr. Hilber, & Dr. Colby

12:00 p.m. ~ 2:00 p.m.  Lunch & Poster Session
**Vision Funding Update**  
Session Moderator: Michael Young, Ph.D.

2:00 p.m. ~ 2:30 p.m. *Department of Defense Vision Research Program*  
James Jorkasky & LTC (R) Robert Read, M.B.A.

**Modeling & Simulation**  
Session Moderators: COL (R) Robert Mazzoli, M.D. & Joseph Rizzo, M.D.

2:30 p.m. ~ 3:00 p.m. *Keynote: Impact of Advanced Technology on the Future of Surgery*  
Richard Satava, M.D., F.A.C.S.

3:00 p.m. ~ 3:20 p.m. *Cognitive Simulations for Medical Teaching*  
John Loewenstein, M.D.

3:20 p.m. ~ 3:40 p.m. *Eye Trauma Simulation - Review and Novel System Development*  
Mark P. Ottensmeyer, Ph.D.

3:40 p.m. ~ 4:30 p.m. *Panel Discussion*  
Dr. Satava, Dr. Loewenstein, & Dr. Ottensmeyer

6:00 p.m. ~ 9:00 p.m. *Gala Reception*  
Starr Center, Schepens Eye Research Institute

*Each talk includes a 5 minute Q&A session*
Wednesday, September 19, 2012

8:00a.m. – 8:30a.m.  Breakfast

**Modeling & Simulation**

8:30a.m. ~ 8:50a.m.  *Decision-Support Technologies for Diagnosis of Trauma Patients: Major Hemorrhage and Traumatic Brain Injury*
Jaques Reifman, Ph.D.

**Ocular Pain**
Session Moderators: Reza Dana, M.D., M.P.H., M.Sc & James Chodosh, M.D., M.P.H.

8:50a.m. ~ 9:10a.m.  *Ocular Pain: Framing the Clinical Issues*
Todd Margolis, M.D., Ph.D.

9:10a.m. ~ 9:30a.m.  *Current Concepts in PRK Pain Management*
Kraig S. Bower, M.D., F.A.C.S.

9:30a.m. ~ 9:50a.m.  *New Approaches Toward Objective Evaluation and Treatment of the Most Common Symptom of TBI – Light Sensitivity*
Randy Kardon, M.D., Ph.D.

9:50a.m. ~ 10:35a.m.  Panel Discussion
Dr. Margolis, Dr. Bower, & Dr. Kardon

10:35a.m. ~ 10:50a.m.  Morning Break

**Inflammation & Infection**
Session Moderators: Meredith Gregory-Ksander, Ph.D. & COL (R) Robert Mazzoli, M.D.

10:50a.m. ~ 11:20a.m.  *Keynote: Neutrophils as First Responders in Corneal Infection and Inflammation – a Double-Edged Sword*
Eric Pearlman, Ph.D.

11:20a.m. ~ 11:40a.m.  *Endophthalmitis Prophylaxis: What are we doing?*
CAPT Jeffrey Blice, M.D.

11:40a.m. ~ 12:00p.m.  *Contact Lens Drug Delivery*
Joseph Ciolino, M.D.

12:00p.m. ~ 12:20p.m.  *Towards "Green" Methods for Preventing Infection*
Suzanne Fleiszig, O.D., Ph.D., F.A.A.O.

12:20p.m. ~ 2:00p.m.  Lunch & Poster Session
Telehealth, Telepresence & Informatics:  
Advanced Technologies  
Session Moderators: COL (R) Francis McVeigh, O.D., M.S. & Louis Pasquale, M.D.

2:00 p.m. ~ 2:30 p.m.  
Keynote: The U.S. Army Telemedicine Program – Making a Difference at Home and Abroad  
Ronald Poropatich, M.S., M.D.

2:30 p.m. ~ 2:50 p.m.  
Doctors Listen: The Balance of Power is Changing  
Francis McVeigh, O.D., M.S., F.A.A.O.

2:50 p.m. ~ 3:10 p.m.  
Expanding the Boundaries of Diabetes Eye Care  
Lloyd Aiello, M.D. & Jerry Cavallerano, OD, PhD

3:10 p.m. ~ 3:30 p.m.  
Keynote: Facilitating Meaningful and Effective Patient Interactions During Video Conferencing  
Jay Shore, M.D., M.P.H.

3:30 p.m. ~ 3:50 p.m.  
Deploying a Diabetic Retinopathy Photo Screening System into a Large Health System: What is the Right Model  
Steven Waller, M.D., F.A.C.S.

3:50 p.m. ~ 4:10 p.m.  
Use of Non-Mydriatic Retinal Screening to Improve Outcomes in Military Healthcare Beneficiaries  
Robert Vigersky, M.D. F.A.C.P.

4:10 p.m. ~ 4:55 p.m.  
Panel Discussion  
Dr. Aiello, Dr. Cavallerano, Dr Shore, Dr Waller, & COL Vigersky

*Each talk includes a 5 minute Q&A session
Thursday, September 20, 2012

8:00a.m. – 8:30a.m. Breakfast

**Ocular Pain & Refractive Surgery**
Session Moderators: Pedram Hamrah, M.D. & COL Mark Torres, M.D.

8:30a.m. ~ 9:00a.m. Keynote: *Neural Mechanisms of Ocular Discomfort and Pain in Extreme Environmental Conditions*  
Carlos Belmonte, M.D., Ph.D.

9:00a.m. ~ 9:20a.m. *Military Refractive Surgery: 2012 Snapshot*  
CAPT Elizabeth Hofmeister, M.D.

9:20a.m. ~ 9:35a.m. Morning Break

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**Blast Injury, Blast Eye**
Session Moderators: Matthew Gardiner, M.D. & CAPT David McLaren, M.D.

9:35a.m. ~ 10:05a.m. Keynote: *Blast Physics: In the Blink of an Eye…*  
David Ritzel, M.A.S.c.

10:05a.m. ~ 10:25a.m. *A Mouse Model of Ocular Blast Injury: Clinical Manifestations and Genetic Susceptibility*  
Tonia Rex, Ph.D.

10:25a.m. ~ 10:45a.m. *Ocular Trauma at Walter Reed Army Medical Center: 2001-2011*  
MAJ Marcus Colyer, M.D.

10:45a.m. ~ 11:05a.m. *Dry Eye Disease in Veterans with Neurotrauma*  
Glenn Cockerham, M.D.

11:05a.m. ~ 11:25a.m. *Blast Injury and the Orbit*  
COL Sheri De Martelaere, M.D.

11:25a.m. ~ 11:45a.m. *Chronic Traumatic Encephalopathy in Blast-Exposed U.S. Military Veterans and a Blast Neurotrauma Mouse Model: Implications for Military Eye Injury and Vision Research*  
Lee Goldstein, M.D., Ph.D.

11:45a.m. ~ 12:15p.m. Panel Discussion  
Mr. Ritzel, Dr. Rex, Dr Colyer, Dr. Cockerham, COL Martelaere, & Dr. Goldstein

12:15p.m. ~ 2:00p.m. Lunch & Poster Session
**Regenerative Medicine**  
Session Moderators: James Zieske, Ph.D., & Magali Saint-Geniez, Ph.D.

2:00p.m. ~ 2:30p.m. **Keynote: Facial Restoration by Transplantation**  
Bohdan Pomahac, M.D.

2:30p.m. ~ 2:50p.m. **Development of Stem Cell Based Therapies for the Treatment of Retinal Degenerative Disease**  
Budd Tucker, Ph.D.

2:50p.m. ~ 3:10p.m. **Stem Cell Derived Retinal Transplantation: The First Human Experience**  
Steven D. Schwartz, M.D.

3:10p.m. ~ 3:30p.m. **Photoreceptor Regeneration in Swine Model of Retinal Degeneration**  
Henry Kaplan, M.D., F.A.C.S.

**Restoring the Functional Eye**  
Session Moderators: Eli Peli, O.D & John Wyatt, Ph.D.

3:30p.m. ~ 3:50p.m. **Visual Prosthetic Approaches to Visual Restoration After Traumatic Injury**  
Joseph Rizzo, M.D.

3:50p.m. ~ 4:10p.m. **Perceptual Characteristics of V1 Microstimulation via an Array of Microelectrode at Greater than 18 Months of Implantation**  
Bradley Greger, Ph.D.

4:10p.m. ~ 4:30p.m. **Sensory Substitution for Functional Vision Restoration**  
Anil Raj, M.D.

4:30p.m. ~ 5:00p.m. Panel Discussion  
Dr. Rizzo, Dr. Greger, & Dr. Raj

*Each talk includes a 5 minute Q&A session*