Dr. Charles Limb is the Francis A. Sooy Professor of Otolaryngology-Head and Neck Surgery and the Chief of the Division of Otology, Neurotology and Skull Base Surgery at UC San Francisco. He is also the Director of the Douglas Grant Cochlear Implant Center at UCSF and holds a joint appointment in the Department of Neurosurgery. Throughout his career, Limb has combined his interests in auditory science, clinical treatment of hearing loss, and complex sound perception, especially music.

Networking Stations
1: Music and Language
2: Music and Disabilities
3: Music and Medicine
4: Music Education, Pedagogy, and Learning
5: Music Technology
6: Music Theory and its Cognitive Bases
7: Music and Society
8: Music Research and Community Organizations
9: Music Industry
10: Music Perception: Basic Research

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Vanderbilt Music and Mind Kickoff to the Society for Music Perception and Cognition 2015 Conference
Ingram Hall, The Blair School of Music, August 1, 2015, 1-7pm

SCHEDULE OF EVENTS

1:00 “Heavy MeNtal: Explorations of Mind and Brain through Song,” featuring Dr. Joseph LeDoux and Colin Dempsey
1:45 Spotlight on Vanderbilt Research: Lightning Talks
3:00 Break
3:15 Musical Interlude: Sswing on the Strings
3:30 Keynote Address: “The Neuroscience of Musical Creativity,” by Dr. Charles Limb
4:30 Networking stations and Reception

Heavy MeNtal: Explorations of Mind and Brain through Song
Introductory remarks by Mark T. Wallace, PhD; Director, Vanderbilt Brain Institute

Featuring Dr. Joseph LeDoux and Colin Dempsey “So We Are” with Nicole L. Baganz, PhD; Postdoctoral Fellow, Vanderbilt University Department of Pharmacology and Pete Finney, freelance musician and writer/historian

LeDoux is a professor of neuroscience and psychology at New York University as well as the director for the Center for the Neuroscience of Fear and Anxiety. His research focuses on understanding the biological mechanisms of emotional memory.

Dempsey is an Irish singer-songwriter, writer, and storyteller based in New York. He also performs in the original folk-rock band Supersmall and the neuroscience rock band The Amygdaloids.

Spotlight on Vanderbilt Research: Lightning Talks

Introductory remarks by Roland D. Eavey, MD, SM
Director, Vanderbilt Bill Wilkerson Center for Otolaryngology and Communication Sciences

Understanding the vocal instrument in health and disease
C. Gaelyn Garrett, MD
Senior Executive Medical Director, Vanderbilt Voice Center, Professor and Vice-Chair, Department of Otolaryngology

When musicians acquire hearing loss: Optimizing interventions
Todd Ricketts, PhD
Professor and Director of Graduate Studies, Department of Hearing and Speech Sciences, Vanderbilt University Medical Center; Director, Maddox Trust Hearing Aid Research Laboratory

Music perception for cochlear implant recipients
René H. Gifford, PhD
Associate Professor, Department of Hearing and Speech Sciences; Director, Cochlear Implant Research Laboratory; Director, Cochlear Implant Program

The sound of fury: Music and pain in the emergency department
Clifford O’Sullivan, RN
Vanderbilt Emergency Services

I can’t hear myself think! ... Alarms and noise in the intensive care unit
Joe Schlesinger, MD
Assistant Professor, Department of Anesthesiology, Division of Critical Care Medicine

Musicality and Williams syndrome
Miriam Lense, PhD
Vanderbilt Kennedy Center, Williams Syndrome Lab

Making SENSE of autism with musical theatre
Blythe A. Corbett, PhD
Associate professor, Vanderbilt University Department of Psychiatry and Investigator with Vanderbilt Kennedy Center, Director of SENSE Lab

Music, reward and dopamine
David H. Zald, PhD
Professor of Psychology and Psychiatry; Director of the Affective Neuroscience Laboratory

Music and the mind: Using ideas as my maps
Nicole L. Baganz, PhD
Postdoctoral Fellow, Department of Pharmacology; Vanderbilt Brain Institute

Not just hearing – Music as a multisensory experience
Mark T. Wallace, PhD
Director, Vanderbilt Brain Institute; Associate Director, Silvio O. Conte Center for Neuroscience Research; Louis B. McGavock Endowed Chair; Professor of Hearing & Speech Sciences, Psychology and Psychiatry

The power of di-chords to hear and heal
Marianne Ploger
Professor of Music Perception and Cognition; Director, Musicianship Program: The Ploger Method® at the Blair School of Music

Seeing in tune: Hearing influences awareness of visual melody
Randolph Blake, PhD
Centennial Professor Psychology, Vanderbilt Vision Research Center

Seeing music
Helena Simonett, PhD
Assistant Professor, Center for Latin American Studies and Blair School of Music

How do we map conducting gestures onto the sound we make?
Aysu Erdemir
PhD Candidate, Psychology and Human Development; The Action, Perception, and Representation Lab

Emelyne Bingham
Senior Lecturer, Blair School of Music at Vanderbilt University; Research Member, Vanderbilt Kennedy Center

Joint music making and cooperation
Sara Lynn Beck
PhD Candidate, Psychological Sciences; Action, Perception, and Representation Lab

Rhythm and language in children
Reyna L. Gordon, PhD., SMPC Conference Co-Chair
Program for Music, Mind & Society Department of Otolaryngology

Musical Interlude
Performance by “Sawing on the Strings” featuring Giri Peters, Uma Peters, Beth Davis, Zak Sohrabi, and Deanie Richardson, instructor

Keynote Address: The Neuroscience of Musical Creativity, Dr. Charles Limb
Introductory remarks by Dr. Jessica Grahn, SMPC Program Chair

Musical creativity has existed since the earliest days of human civilization. Until recently, how the brain actually produces musical ideas was poorly understood. Recent advances in brain imaging have allowed us to address questions of artistic significance that were previously felt to be inaccessible to scientific inquiry. Of the multiple creative processes that take place in music, improvisation—the spontaneous generation of musical material—provides an inspiring tool to study these processes. This presentation will highlight several functional neuroimaging studies that have examined the process of musical improvisation in expert musicians, as a window into the complex neural processes that give rise to creativity.