

ISNR 2010 Panel Abstracts

The category of presentations is indicated by “C” for Clinical Application or Clinical Experience, “R” for Research, and “T” for Theoretical.

Wednesday, September 29, 2010

Panel 1: Neurofeedback: The Past, Present and Future (T)

Eugenia Bodenhamer-Davis, University of North Texas, genie@unt.edu
Judith Lubar, LCSW, Southeastern Biofeedback Institute, judithpisces@hotmail.com
Lynda Thompson, PhD, ADD Centre, lyndamichaelthompson@gmail.com

Credits: CME – 1.5, American Psychological Association, NBCC, ASWB and CA Board of Behavioral Sciences CE – 1.5, BCIA recertification – 1.5

Abstract by Leslie Sherlin, PhD

As any previous ISNR attendee will tell you much of the learning experience occurs in the hallways and around dinner tables with experienced providers. In my early career and still today I find catching conversation with the brightest minds of our field to be the most satisfying and educational experiences and the one that I always remember most from the conferences. If you're lucky enough to find an empty seat at a table with one of our elder pioneers or an up and coming innovator you should take advantage of this opportunity to just capture the stories of their experience. In the meantime, ISNR has hosted a special panel that has quickly become a favorite for bringing this same idea into a room for all to enjoy.

Our first special panel took place in 2008 with contributions from Tom Budzynski, Joel Lubar and Barry Sterman. It was truly one of the most entertaining and educational events of the conference as we all came together to share experiences and speculate about our common future. The panel participants are given a very loose goal of making a 30-minute presentation each sharing their perspective of neurofeedback's past, present and future. It ranged from a photo slide show of other pioneers and colleagues highlighting landmark achievements, presentation of data and studies to simple story telling about our field and accomplishments. In 2009 we were very honored to hear from Joe Kamiya, Juri Kropotov and Nancy White.

This year I have decided to turn our focus to a few of the pioneering women of our field. The invited speakers will be Eugenia Bodenhamer-Davis, Judith Lubar and Lynda Thompson. Be sure to arrive early on Wednesday to participate in the welcome reception and the special panel where we hear these pioneering women give us their perceptions on “Neurofeedback: the Past, Present and Future”.

Financial Interest: No financial interests for any presenter.

Thursday, September 30, 2010

Panel 2: Neurofeedback for Epilepsy: A Review and Update (R,C)

Gabriel Tan, PhD, VA Medical Center, tan.gabriel@va.gov
D. Corydon Hammond, PhD, University of Utah Medical Center, d.c.hammond@m.cc.utah.edu
Jonathan Walker, MD, Neurotherapy Center of Dallas, admin@neurotherapydallas.com
Robert Coben, PhD, Neurorehabilitation & Neuropsychological Services robcoben@optonline.net

Credits: CME – 1.5, American Psychological Association, NBCC, ASWB and CA Board of Behavioral Sciences CE – 1.5, BCIA recertification – 1.5

Abstract

This symposium is intended to provide both a review and an update on the use of neurofeedback (NF) to treat individuals suffering from epilepsy, particularly those who appear to be resistant to traditional pharmacotherapy. The prevalence and types of epilepsy along with the respective treatment outcome data will be briefly described. The symposium will then describe NF approaches and protocols for the treatment of epilepsy (including SMR and SCP training). The discussion will include a presentation of a recently published meta-analysis on NF and epilepsy (Tan et al, 2009). Additionally, the low energy NF system will also be briefly presented (Hammond 2007; Larsen, 2006; Ochs, 2006). The symposium will also discuss an approach which focuses on individualizing clinical protocol based on QEEG findings (Walker, 2008; Walker and Kozlowski, 2005) in order to improve on the outcome. Last but not least, data supporting the use of genotype/EEG connectivity analyses in the treatment of epilepsy in Autistic children will be presented. Q & A session at the end will hopefully solicit input from the audience for further discussion.

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Goals/Objectives

Identify the prevalence of epilepsy and the limitations of traditional interventions in the treatment of this condition.

Describe the efficacy of neurotherapy approaches and protocols for the treatment of epilepsy (including SMR and SCP training).

Describe how to individualize NF protocol based on QEEG findings.

Describe genotype/EEG connectivity analyses in the treatment of epilepsy in Autistic children.

Outline

Dr. Gabriel Tan will introduce the topic and summarize the recent findings of a meta-analysis on NF and epilepsy - 15 minutes

Dr. Cory Hammond will describe the clinical protocols using specific case examples - 20 minutes

Dr. Jonathan Walker will describe his work in individualizing clinical protocol based on QEEG findings - 20 minutes

Dr. Coben will introduce and provide data supporting the use of genotype/EEG connectivity analyses in the treatment of epilepsy in Autistic children - 20 minutes

The symposium will end with Q&A from the audience - 15 minutes

Financial Interest: No financial interests for any presenter.

Friday, October 1, 2010

Panel 3: Applications of QEEG and Neurofeedback in Sport Psychology (R,C)

Michael Linden, PhD, ADD Treatment Centers, drmike49@aol.com

Jeffrey Fannin, PhD, Center for Cognitive Enhancement, jfannin@enhanceyourbrain.com

Wes Sime, PhD, First Step Recovery & Wellness Center, wes.sime@gmail.com

Credits: CME – 1.5, American Psychological Association, NBCC, ASWB and CA Board of Behavioral Sciences CE – 1.5, BCIA recertification – 1.5

Abstract

The science of sport psychophysiology has been developing gradually over the past 20-30 years. Initially most theoretical models and intervention techniques were cognitive and behaviorally based. In recent years the principles of the Zone of Optimal Performance were developed which features statistical models to calculate the ideal range of arousal and confidence associated with best outcomes. More recently, brain wave patterns and ratios of various frequencies and states of consciousness have been assessed during performance in preparation to conduct training protocols designed to enhance the qualities of focus, concentration and more relevant terms such as "being fully engaged or absorbed in the task at hand".

The panel brings together the expertise of three professionals approaching sport performance from different perspectives. These perspectives include 1) QEEG profiles of successful athletes and QEEG based Neurofeedback, 2) QEEG Assessment and Neurofeedback with athletes with ADD and Asperger's, and 3) General Neurofeedback combined with other physiological techniques with athletes.

The outcome of this panel session should be to advance the science of sport psychophysiology to utilize more accurate neurological (QEEG) assessment and training (Neurofeedback) strategies with athletes.

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Goals/Objectives

Understand QEEG patterns of athletes.

Learn about QEEG patterns and Neurofeedback with athletes with ADD & Asperger's.

Review cases of Neurofeedback with Athletes.

Outline

QEEG profiles of athletes Jeff Fannin - 30 minutes

QEEG & Neurofeedback with athletes with ADD & Asperger's. Michael Linden - 30 minutes

Neurofeedback & Biofeedback with Athletes. Wes Sime - 30 minutes

Financial Interest: No interest in any current product. Two of the presenters are working on new software applications that are not for sale.