BCIA and QEEG Certification Didactic Training Course

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Course Dates: Saturday 20 August through Wednesday 23 August 2017.
Course Times: 08:00- 18:00 daily
Course Location: Brain Training Centre 2/42 Thesiger Court Deakin ACT 2611
Course Costs: $1499 AUD (Includes electronic materials, refreshment breaks and certificate of
      completion. Application fees for BCIA or QEEG certification are not included.)
Course Instructors:
      Leslie Sherlin PhD, CC-AASP, QEEGD, BCN, BCB
      Jon Hegg, MA Psych, BCN

Course Description:
      Nova Tech EEG is an accredited training course for both BCIA and QEEG certification
boards. This 4 day training course satisfies the didactic requirements for both the Biofeedback
Certification International Alliance neurofeedback blueprint and the QEEG Certification Board
quantitative electroencephalography blueprint.

 This course features lecture covering core principles and revealing research findings as well as
significant hands-on opportunity through both demonstration and practical skill development.
Attendees will utilize the latest tools and technologies available in the course, however, the
principle taught transcend equipment and are applicable to all commercially available systems.

Course Content:
      Attendees receive training in the principles and applications of neurofeedback (EEG
biofeedback). Neurofeedback is a clinical process for changing the electrical activity, of either
cortical or sub-cortical origin, of the Central Nervous System using electroencephalography-based
biofeedback and/or electrical stimulation. The neurofeedback process teaches self-regulation of
neural activity and related "state change", with promising therapeutic benefits in ADHD, migraine,
anxiety, depression, head injury, insomnia, and a host of other neuro-cognitive disorders. Course
includes neurofeedback history and research, EEG & electrophysiology, instrumentation,
treatment planning, and experiential modules designed to familiarize the attendee with clinical
and performance applications. The course will also provide information and demonstration in
quantitative EEG recording and interpretation. The integration of neurofeedback as a
complementary approach with other therapeutic procedures to enhance health and wellness will
be emphasized.

About the instructors:

Leslie Sherlin, PhD completed his undergraduate degree and first years of graduate school from the University of Tennessee, Knoxville where he became interested and exposed to quantitative electroencephalography and psychophysiology regulation. For 5 years he was a research assistant working in the Brain Research and Neuropsychology laboratory as a student of Joel Lubar, PhD, a pioneer in neurofeedback. He has the degrees of BA in Psychology, MS in Clinical Psychology and PhD in Psychology.   While still an undergraduate he was able to acquire training in Low Resolution Electromagnetic Tomography (LORETA), an imaging technique for localizing electrical activity of the brain, directly from Roberto Pascual-Marqui, PhD in Zurich, Switzerland.

Following these experiences he co-founded the company Nova Tech EEG, Inc, with Marco Congedo, PhD, a company that provides training, evaluation services and equipment/software for quantitative EEG analysis and imaging. Following the first years of primarily research in QEEG and LORETA, he then began practicing QEEG analysis and neurofeedback in a clinical setting and has been involved in client care since 2002 while continuing to pursue research projects in the field of QEEG and psychophysiology. Having been part of Nova Tech EEG for the past twelve years he has had the opportunity to analyze over 35,000 qEEGs.

Beginning in 2008 Dr. Sherlin focused his efforts in the domain of athlete and elite performance when he co-founded SenseLabs and operates as the Chief Science Officer. SenseLabs is a company that specializes in researching and creating paradigms for high performance in elite individuals and developing tools for broader applications in healthy populations. From May 2012 through May 2013 he completed his professional re-specialization in sport psychology and completed a postdoctoral fellowship in sport psychology with Pinnacle Performance at D.I.S.C. Sport and Spine Center in Marina Del Rey, CA under the supervision of Michael Gervais, PhD.

Dr. Sherlin has the academic appointments of adjunct associate professor in the department of mind-body medicine at Southwest College of Naturopathic Medicine; faculty in the department of psychology at the University of Phoenix main campus; and adjunct faculty in the department of psychology at Northern Arizona University.

Dr. Sherlin is listed in the United States Olympic Committee Sport Psychology and Mental Training Registry. He is a Certified Consultant by the Association for Applied Sport Psychology, certified at the Diplomat level in quantitative electroencephalography (QEEG) and is BCIA Board Certified both in Biofeedback and Neurofeedback. He has served on the board of directors for both the International Society for Neurofeedback and Research and the Biofeedback Certification International Alliance in a number of elected positions including the President.

Jon Hegg MA, BCN is Board Certified in Neurofeedback. He has a Masters degree in Psychology from the University of Sydney. Jon is also one of Australia's most experienced clinical practitioners in Neurofeedback, having practiced neurofeedback for 18 years and psychology for almost 40 years. He has extensive training in neurofeedback in both Australia and America. He works very closely with Jay Gunkleman, who is one of the world's most knowledgeable pioneers in this field. Jon is president of the Applied Neuroscience Society of Australia and Asia, and is on the Board of Examiners for the Biofeedback Certification International Alliance Australia. Jon is

dedicated to expanding the frontiers of Applied Neuroscience and to increase awareness and participation in this exciting emerging field.

Jon's background in Psychology informs his best practice approach to Neurofeedback. He believes that the best Neurofeedback practitioners come from this orientation. He is a long-standing affiliate of EEG Spectrum International. As a senior clinician he seeks to develop collaboration within the Medical, Psychology, Health and Education disciplines.

As the Director of the Brain Training Centre in Canberra, ACT, Jon provides a QEEG (Quantitative Electroencephalogram) assessment service to neurofeedback practitioners. The QEEG assessment is the most advanced evidence based neurofeedback method available in the world.

As Jon says: "Over the last 40 years there has been an amazing development in our understanding of the brain and its behaviour. The complexity of this information can now be modeled in a way to describe the most common types of EEGs in failure mode (brainwave patterns). The Endophenotype model categories the EEG into a finite set of patterns that can then be used to inform medication and neurofeedback interventions. We can transcend the limitations of descriptive categories like the DSM-V (Diagnostic Statistical Manual-V) and train neural networks that are under optimised regardless of the diagnosis.

This approach has enormous benefits for the science and practice of neurofeedback and in guiding medical interventions. This is the approach we use at the Brain Training Centre and our results have improved over what is generally expected across the field. We will be improving outcomes as the pragmatic research continues into what training works best for whom. This is an exciting development, which holds a lot of promise as the field evolves.