

Required Books:

Collura, T.F. Technical Foundations of Neurofeedback. Routledge, 2013. Chapters 1-6

Hammond, C. & Gunkelman, G. (2010). The Art of Artifacting. ISNR Research Foundation.
www.BMedpress.com

Thatcher, R. (2012). Handbook of Quantitative Electroencephalography and EEG Biofeedback: Scientific Foundations and Practical Applications. AniPublishing, Inc. Chapters 1, 2, 4 and 5 (This book is available through the author at no charge to QEEGCB candidates – please contact Dr. Thatcher at rwthatcher2@yahoo.com, advise him of your candidacy and use the passcode QEEG11 to ascertain it in electronic format).

Tyner, F., Knott, J. & Meyer, W.B. Fundamentals of EEG Technology, Vol 1, Basic Concepts and Methods. , Raven Press, New York, 1983

Tyner, F., Knott, J. & Meyer, W.B. Fundamentals of EEG Technology, Vol 2, Clinical Correlates. Raven Press, New York, 1983

Recommended Books:

Coben, R. & Evans, J. (2011). Neurofeedback and Neuromodulation Techniques and Applications. Academic Press of Elsevier, San Diego, CA.

Niedermeyer, E. & Lopes Da Silva, F. (Eds) (1999). Electroencephalography: Basic principles, clinical applications and related fields (4th ed). Lippincott, Williams and Wilkins, Baltimore, Chapters 2, 6, 7, 9, 12, 13, 34, 62 and 63

Harmony T. (2009). Psychophysiological Evaluation of Neuropsychological Disorders in Children. In C.R. Reynolds, & E. Fletcher-Janzen (Eds.), Handbook of Clinical Child Neuropsychology (pp 383-399). New York, New York: Springer.

Required Journal Articles:

Arns, M, deRidder, S., Strehl, U., Breteler, M & Coenen, A. (2009). Efficacy of Neurofeedback treatment in ADHD: the effects on inattention, impulsivity and hyperactivity: A meta-analysis. *Clinical EEG and Neuroscience*:40(3). 180-189.

Arns, M., Gunkelman, J., Breteler, M. & Spronk, D. (2008) EEG Phenotypes predict treatment outcome to stimulants in children with ADHD. *Journal of Integrative Neuroscience*:7(3). 421-438.

Arns, M., Peters, S. & Breteler, R. (2007). Different brain activation patterns in dyslexic children: evidence from EEG power and coherence patterns for the double-deficit theory of dyslexia. *Journal of Integrative Neuroscience*:6(1), 175–190.

ASET Booklet – Compilation of EEG materials from the American Society of Electrodiagnostic Technologists

Barry, R.J., Adam R. Clarke, Stuart J. Johnstone (2003). A review of electrophysiology in attention-deficit/hyperactivity disorder: Qualitative and quantitative electroencephalography. *Clinical Neurophysiology*:114. 171–183. (Can be obtained directly via email rbarry@uow.edu.au.)

Coben, R., Clarke, AR., Hudspeth, W., Barry RJ. (2008). EEG power and coherence in autistic spectrum disorder, *Clinical Neurophysiology*, 119, 1002–1009. (This article is also included in the Coben, Evans book above.)

Coben, R., Ilean Padolsky, PhD (2007). Assessment-guided neurofeedback for autistic Spectrum disorder. *Journal of Neurotherapy*:11(1). 5-23. (This article is also included in the Coben, Evans book above.)

Cannon, R.L., Thatcher, R.W., Baldwin, D.R., Lubar, J.F. (2009). EEG LORETA and the Default Mode of the Brain. Unpublished manuscript.

Dhar, M., Been, P.H., Minderaa, R.B., Althaus, M. (2010). Reduced interhemispheric coherence in dyslexic adults. *Cortex*, 46(6): 794-8

de Haan, W., Pijnenburg, YAL., Strijers, RLM., van der Made, Y., van der Flier, WM., Scheltens, P., and Stam, C. (2009). Functional neural network analysis in frontotemporal dementia and Alzheimer's disease using EEG and graph theory. *BMC Neuroscience*:10. 101-112

Gunkelman, J., (2012). Drug exposure and EEG/qEEG findings: A technical guide. Brain Science International. Pleasanton, CA.

Hammond, DC, Walker, J., Hoffman, D., Lubar, J., Trudeau, D., Gurnee, R., Horvat, J. (2004). Standards for the Use of Quantitative Electroencephalography (QEEG) in Neurofeedback: A Position Paper of the International Society for Neuronal Regulation. *Journal of Neurotherapy*, Vol 8 (1), 5-27

Hegerl, U., Himmerich, H., Engmann, B., & Hensch, T. (2010). Mania and attention-deficit/hyperactivity disorder: Common symptomatology, common pathophysiology and common treatment? *Current Opinion in Psychiatry*:23(1). 1-7.

Hegerl, U., Stein, M., Mulert, C., Mergl, R., Olbrich, S., Dichgans, E., Rujescu, D., Pogarell, O. (2008). EEG-vigilance differences between patients with borderline personality disorder, patients with obsessive-compulsive disorder and healthy controls. *Eur Arch Psychiatry Clin Neurosci*:Apr; 258(3):137-43.

Herrmann, CS., & Demiralp, T. (2005). Human EEG gamma oscillations in neuropsychiatric disorders. *Clinical Neurophysiology*:116. 2719–2733.

Kaiser, D & Meckley, A. (2012). EEG pharmacology (self-published)

Kaiser, David A. (2008). Functional Connectivity and Aging: Comodulation and Coherence Differences. *Journal of Neurotherapy*:12:2, 123-139.

Koenig, T., L. Prichep, T. Dierks, D. Hubl, LO. Wahlund, ER., Jelic, JV. (2005). Decreased EEG synchronization in Alzheimer's disease and mild cognitive impairment. *Neurobiology of Aging*:26. 165–171.

Moazami-Goudarzi¹, M., Lars Michels, Nathan Weisz, Daniel Jeanmonod (2010). Temporo-insular enhancement of EEG low and high frequencies in patients with chronic tinnitus. QEEG study of chronic tinnitus patients, Moazami-Goudarzi et al. *BMC neuroscience*:11(40) [Link to online access](#)

Nuwer, M., (1997) Assessment of digital EEG, quantitative EEG and EEG brain mapping. *Neurology*:49. 277-292

Oakes, TR, Pizzagalli, DA., Hendrick, AM., Horras, KA., Larson, CL., Abercrombie, HC., Schaefer, SM., Koger, JV. & Davidson, RJ. (2004). Functional coupling of simultaneous electrical and metabolic activity in the human brain. *Human Brain Mapping*:21. 257–270.

Ozegi, A. et al, 2004, The role of Hemispherical Asymmetry and Regional Activity of Quantitative EEG in Children with Stuttering. *Child Psychiatry and Human Development*: 34. 269-280

Pop-Jordanova, N., Zorcec, T., Demerdzieva, A., Gucev, Z. (2010). QEEG characteristics and spectrum weighted frequency for children diagnosed as autistic spectrum disorder. *Nonlinear Biomedical Physics*:4(4).

Prichep, LS., John, ER., Ferris, SH., Rausch, L., Fang, Z., Cancro, R., Torossian, C., Reisberg, B. (2006). Prediction of longitudinal cognitive decline in normal elderly with subjective complaints using electrophysiological imaging. *Neurobiology of Aging*:27. 471–481.

Sherlin, L., Arns, M., Lubar, J. & Sokhadze, E. (2010). A position paper on neurofeedback for the treatment of ADHD. *Journal of Neurotherapy*:14(2). 66-78.

Serman, M. (2010). Biofeedback in the treatment of epilepsy. *Cleveland Clinic Journal of Medicine*. July found at: http://www.ccmj.org/content/77/Suppl_3/S60

Thatcher RW, Biver C, McAlaster R, Camacho M., & Salazar A. (1998). Biophysical linkage between MRI and EEG amplitude in closed head injury. *NeuroImage*:7. 352-367.

Thatcher, R. (1998). Normative EEG databases and EEG biofeedback. *Journal of Neurotherapy*: 2(4)

Thatcher, R.W., North, DM., Neubrandner, J., Biver, CJ., Cutler, S., DeFina, P. (2009). Autism and EEG phase reset: Deficient GABA, Mediated inhibition in thalamo-cortical circuits. *Developmental Neuropsychology*:34(6). 780–800.

Thatcher, RW., Biver, CJ, North, DM. (2003). Quantitative EEG and the Frye and Daubert Standards of Admissibility. *Clinical Electroencephalography*:34(2): 39-53.

Thatcher, RW, Duane M. North, & Carl J. Biver (2008). Development of Cortical Connections as measured by EEG coherence and phase delays. *Human Brain Mapping*:29. 1400–1415.

Thatcher, RW, North, D., Biver, C. (2002). EEG Discriminant analysis of children with learning disabilities: Correlations to school achievement and neuropsychological performance. EEG and Neuroimaging Lab, Bay Pines VA Medical Ctr. and Dept. Neurology, University of South Florida College of Medicine, Tampa, FL.

Thatcher, RW., Walker, RA., Biver, CJ, North, M, Curtin, R. (2003). Sensitivity and specificity of an EEG normative database: Validation and clinical correlation. *Journal of Neurotherapy*:7(3/4). 87-121

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Thatcher, RW., Walker, RA., Gerson, I., Geisler, FH. (1989). EEG discriminant analyses of mild head trauma. *Electroencephalography and Clinical Neurophysiology*:73, 94-106

Thornton, K., Carmody, D. (2013) The relationship between memory improvement and QEEG changes in three clinical groups as a result of EEG biofeedback treatment. *J. Neurotherapy*:17(2), 116-131

Thornton, K., (2002), Electrophysiology (QEEG) of effective reading memory: Towards a generator/activation theory of the mind. *J. Neurotherapy*:6(3). 37-66

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Recommended Journal Articles:

Alexander, HN, Logemann, Marieke M. Lansbergen, Titus W.D.P. Van Os, Koen B.E. Böcker, J. Leon Kenemans (2010). The effectiveness of EEG-feedback on attention, impulsivity and EEG: A sham feedback controlled study. *Neuroscience Letters*: 479, 49–53

Allen, J. J. B. & Kline, J. P. (2004). Frontal EEG asymmetry, emotion, and psychopathology: The first, and the next, twenty-five years. *Biological Psychology*:67. 1-5

The following articles by Dr. Barry can be obtained directly via email request: rbarry@uow.edu.au

Barry, RJ., Adam R. Clarke, AR., McCarthy, R., Selikowitz, M., Johnstone, SJ., Rushby, JA. (2004). Age and gender effects in EEG coherence: I. Developmental trends in normal children, *Clinical Neurophysiology*:115, 2252–2258.

Barry, RJ., Clarke, AR., McCarthy, R., Selikowitz, M., Johnstone, SJ., Hsu, Cl., Bond, D., Wallace, MJ., Magee, CA. (2005). Age and gender effects in EEG coherence: II. Boys with attention deficit/hyperactivity disorder, *Clinical Neurophysiology*:116, 977–984.

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The following articles by Dr. Clarke can be obtained directly via email request: acclarke@uow.edu.au

Clarke, AR., Robert J. Barry, Patrick C.L. Heaven, Rory McCarthy, Mark Selikowitz, Mitchell K. Byrne, (2008). EEG coherence in adults with Attention-Deficit/Hyperactivity Disorder, *International Journal of Psychophysiology* 67. 35–40.

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