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Education:

Ph.D. Clinical Psychology, New School for Social Research, Graduate Faculty Division, NY, NY, 1980, offered Hiram Halle Valedictorian Scholarship

M.A. Psychology, New School for Social Research, NY, NY 1976

B.A. Oberlin College, Oberlin, Ohio, 1964

Current / Previous Professional Involvement:

Administrative Director, Neuroscience Center, 2013-present

Administrative Director, Center for Health Psychology, 1985-2013

Professional Affiliations:

National Academy of Neuropsychology, Professional Status: Board of Directors, qEEG Certification Board, Diplomate, QEEG; International Society for Neuronal Regulation, member

Published Research

Neuropsychology of Sex Offenders. *Journal of Offender Rehabilitation*. Jan. 1991

The Anatomy of The Lie: An Exploratory Investigation via the quantitative EEG. *Journal of Offender Rehabilitation*, 1995, 22 (3/4), 179-185.

On the Nature of Artifacting the qEEG. *Journal of Neurotherapy*, 1 (3), 1996, 31-40.

The Fig Technique and the Functional Structure of Memory in Head Injured and Normal Subjects. *Journal of Neurotherapy*, 2 (1), 1997, 23-43.

Exploratory Investigation into Mild Brain Injury and Discriminant Analysis with High Frequency Bands (32-64 Hz), *Brain Injury*, August, 1999, 477-488.

Exploratory Analysis: Mild Head Injury, Discriminant Analysis with High Frequency Bands (32-64 Hz) under Attentional Activation Conditions & Does Time Heal?. *Journal of Neurotherapy*, Feb., 2000, 3 (3/4) 1-10.

Electrophysiology of Auditory Memory of Paragraphs. *Journal of Neurotherapy*, 2000, Vol 4(3), 45-73.

Rehabilitation of Memory Functioning in Brain Injured Subjects with EEG Biofeedback. *Journal of Head Trauma Rehabilitation*, Dec., 2000, 15 (6), 1285-1296.

Rehabilitation of Memory functioning with EEG Biofeedback. *Neurorehabilitation*, 2002, Vol. 17 (1), 69-81.

Electrophysiology of Visual Memory for Korean Characters. *Current Psychology*, Spring 2002, Vol. 21, No. 1, 85-108.

Electrophysiology of the reasons the brain damaged subject can't recall what they hear. *Archives of Clinical Neuropsychology*, 2003, 17, 1-17.

Electrophysiology (QEEG) of Effective Reading Memory: Towards a Generator/Activation Theory of the Mind. *Journal of Neurotherapy*, 2002, 6(3), 3 7-66.

A Cost/Benefit Analysis of Different Intervention Models for the LD/Special Education Student, *Biofeedback*, Winter, 2004, 9-13.

Thornton, K. & Carmody, D. (2005). EEG Biofeedback for Reading Disabilities and Traumatic Brain Injuries. *Child and Adolescent Psychiatric Clinics of North America*, Jan., 137-162.

Subtype Analysis of Learning Disability by Quantitative Electroencephalography Patterns, *Biofeedback*, 2006, 34 (3), 106-113.

The qEEG in the Lie Detection Problem; The Localization of Guilt, *J. of Neurotherapy*, 2006

Reading Disability from the Activation Database Point of View, *Neuroconnections*, May, 2007, 9- 11.

Thornton, K. & Carmody, D. (2008). Efficacy of Traumatic Brain Injury Rehabilitation: Interventions of QEEG-Guided Biofeedback, Computers, Strategies, and Medications, *Applied Psychophysiology and Biofeedback*, (33) 2, 101-124.

Thornton, K. & Carmody, D. (2009). Eyes-Closed and Activation QEEG Databases in predicting Cognitive Effectiveness and the Inefficiency Hypothesis, *Journal of Neurotherapy*, (13) 1,1-22

Thornton, K. & Carmody, D. (2009). Traumatic Brain Injury Rehabilitation: QEEG Biofeedback Treatment Protocols, *Applied Psychophysiology and Biofeedback*, (34) 1, 59-68.

Thornton, K, Carroll, C. (2010). The Coordinated Allocation of Resource (CAR) Model Intervention for Reading, Problems in two clinics, *Neuroconnections*, Fall, 8-16.

Thornton, K.E. & Carmody, D.P. (2012). Symbol Digit and the Quantitative EEG, *Journal of Neurotherapy*, 16:3, 210-222.

Thornton, K. (2014). A QEEG activation methodology which obtains 100% accuracy in the discrimination of traumatic brain injured from normal and does the learning disabled show the brain injury pattern?, *Neuroregulation*, 1 (3-4), 209-217.

Thornton, K. & Carmody, D. (2013). The Relation between Memory improvement and QEEG changes in three

clinical groups as a result of EEG biofeedback treatment, *Journal of Neurotherapy*, 17(2). 116-132.

Thornton, K., Carmody, D., (2014). The Coordinated Allocation of Resource (CAR) Electrophysiological Patterns of Recalling Names of Faces in Children, Adolescents and Adults and the Central Processing Unit (CPU) of the Brain, *Neuroregulation*, 1(1), 87-104.

Thornton, K. (2016). *Neurotherapy and Connectivity, Biofeedback*. Volume 44, Issue 4, pp. 218-224

Book Chapters

Thornton, K. (2004). Ch. 95, Cognitive Rehabilitation and Neuronal Plasticity, In Roberts, A. & Yaeger, K. (eds). *Evidence Based Practice Manual*, 857- 881. Oxford University Press

Thornton, K. & Carmody, D. (2009). Chapter Title: Traumatic Brain Injury and the Role of the Quantitative EEG in the assessment and remediation of cognitive sequelae. In Roland A. Carlstedt PhD (ed). *Integrative Clinical Psychology, Psychiatry and Behavioral Medicine: Perspectives, Practices and Research*, 463-508. Springer Publishing Company, Dec 14, 2009 - 912 pages

Thornton, K. (2013). Traumatic Brain Injury, the Quantitative EEG and EEG biofeedback, accepted for publication, AAPB publication

Thornton, K. (2013) Chapter Title: The Role of the quantitative EEG in the diagnosis and rehabilitation of the traumatic brain injured patient, *Concussions in Athletics: From Brain to Behavior*, Chapter 18, 463-5083, Eds. Semyon M. Slobounov and Wayne Sebastianelli, Springer publ., NY, NY

Thornton, K., Carmody, D., (2015). The Electrophysiological Coordinated Allocation of Resource (CAR) Model of Effective Reading in Children, Adolescents and Adults, T.F. Collura & J. Frederick, (Eds.) *Clinician's Companion to QEEG and Neurofeedback*. New York: Routledge

Book: NCLB Goals (and more) are attainable with Neurocognitive Interventions, Vol. 1, Booksurge Press, 2006

How the Cognitive Brain Works: The Quantitative EEG and Cognition, Create Space, 2016 (a compilation of 15 articles addressing the relationship between cognition and the QEEG)

Consultant: Traumatic Brain Injury Grant Reviewer: Department of Defense, 3/2012; 12/2008; Federal Grant Reviewer, May, 2009

Certification:

Licensed Psychologist, State of N.J. (#35 S1 00168200), North Carolina #4294

Patents

QEEG Correlates of Effective Cognitive Functioning (memory and problem solving) in Diverse Clinical Conditions, patent issued 2/27/2018, #9,901,279 B2

Nominations:

1. **1998** Thomas A. Edison Patent of the Year Award
2. **June, 2002** Award for Distinguished Professional Contributions to Independent or Institutional Practice in the Private Sector
3. **May, 2004** Award for Distinguished Contributions of Applications of Psychology to Education and Training
4. **2004** New Abilities Foundation Award for Best New Freedom Product or Technology (considered by supporters as the Nobel Peace prize award in the area of disabilities)
5. **Aug., 2005** North American Brain Injury Society Innovations in Treatment Award

Awards:

Sept., 2009 Joseph Lubar Award for contributions to Neurotherapy, awarded by ISNR