



Stress Therapy Solutions presents:
Live Z - Score Training with BrainMaster

Thursday, October 25 thru Sunday October 28, 2007 Cleveland, Ohio

\$695.00*

Beginners - Intermediate - Advanced WELCOME

Instructors:
Robert W. Thatcher, Ph.D.
Tom Collura, Ph.D., P.E.
Mark Smith, L.S.W.

Thursday 9am - 5 pm Free Day

BrainMaster Equipment and Software Workshop
Bill Mrklas
2.5 and 3.0 BrainMaster Workshop
Software and equipment review Part 1 and II
Event Wizard intro
Remote or distance neurofeedback training via internet
7pm - 9pm - Advanced software review Part III
Bill Mrklas and Tom Collura
MiniQ review
Event Wizard advanced

Friday 9am - 5pm

Technical Foundations of Neurofeedback and Z-Score Training
Thomas F. Collura, Ph.D., P.E.
Overview

Review of basic principles of EEG & Neurofeedback
Review of Neurophysiology and brain localization
Review of EEG recording concepts - Amplifiers, filters
Review of Electrode Locations - Monopolar, Bipolar techniques
Common Frequency Bands & Digital Filtering / Bandwidth issues
Use of Complex Demodulation and Quadrature Filtering
Control of Feedback: Visual and Auditory
Concepts of Operant Conditioning

System Operation

Protocols - what they are, how they are set up
Common protocols
Review of Setup and Control methods
Common Screen Visual Displays
Adaptation to training using normative databases

Advanced topics

Two-channel training
Multiple targeting using Z Scores
Use of sound feedback
Use of gamelike feedback screens
Use of animations and DVD's for feedback
Connectivity training using Z Scores

Practicum

The following EEG Neurofeedback systems will be demonstrated:
BrainMaster (real-time 1- and 2-channel digital EEG)

Applied Neurosciences Z DLL (live Z Score Training)

Friday 7pm - 9pm (and Saturday 7pm - 9pm)

Mark Smith, L.S.W. Practicum:

Accessing the Z-Score
All Attendees will participate, hands on.

Saturday and Sunday

9am - 6 pm

Robert W. Thatcher Ph.D, and Thomas F. Collura present:

Live Z score training workshop

I - Introduction to Normative Databases

Why use a normative database?
How are normative databases created?
What is a "Bell Shaped" curve?
What are Z scores?
How to validate a normative database
Why are age controlled Z scores important?

II- The Real-Time Z Scores

How is it possible to produce instantaneous power, coherence and phase delays?
How was the Z score dll created?
How does one evaluate the Z score dll inside of NeuroGuide?
What are the advantages of Z score biofeedback?
What are the best methods to evaluate the clinical efficacy of Z score biofeedback?

III- Brain Homeostasis and the EEG

What is homeostasis?
What is neural regulation and de-regulation?
What is functional localization?
How do EEG Z scores relate to brain homeostasis and functional Localization?
How to link patient symptoms and complaints to de-regulation and functional localization?
How to develop biofeedback protocols based on the patient's symptoms and complaints and linkage to de-regulated brain function?
How to compare NeuroGuide FFT Z scores to instantaneous Z scores?

IV- Basic Practice of Z Score Training

Installing and configuring the system for training
Feedback and control display panels and options
Built-in Z Score training setup files
Setting up specific Z score feedback protocols
Use of the Event Wizard and Math Wizard
Review of the 76 Available Z scores for 2 channels
Basic demonstration and hands-on practicum

V- Advanced Practice of Z Score Training

Establishing thresholds and dynamic thresholds
Use of "Range" training
Use of "All Normal" types of protocols
Biasing protocols for targeted training
Use of games and animations with Z score training
Four-channel Z score training
Advanced demonstration and hands-on

Seating Intent: 30 First come, first served. Lunches included. Special hotel rates and amenities secured for this workshop.

WHERE: Quality Inn: Richfield, OH \$75 per night 4742 Brecksville Road, Richfield, Ohio 44286

Hotel reservations: Phone#: 1-330-659-6151

Allow 15-20 minutes travel time from Cleve Hopkins Airport Fly into Cleveland Hopkins or Akron/Canton airport

Shuttle provided from Cleveland Hopkins only at no additional fee

We try to accommodate special dietary needs Breakfast is included for those who stay at the hotel. Lunches are included for all attendees

* This is a specially priced workshop. Affiliate members of BrainMaster Technologies Inc. deduct \$50.00 off registration fee (please supply your BrainMaster serial number and purchase date when registering with StressTherapy Solutions Inc.).

Bring your BrainMaster equipment and laptop! However, please note that you do not need to own equipment to attend!

Register Today: StressTherapy Solutions Inc. CALL: 800-447-8052 or 216-766-5707 MC/Visa/Disc or check

Package price: \$695.00 for Sat. and Sun Per day cost: \$395.00

Cancellation policy: Must cancel 45 days prior to workshop day for credit towards same workshop at future date. No refunds.