

ANSA Conference Schedule

Thu, Aug 16, 2018

8:00am

Registration Desk Opens

🕒 8:00am - 9:00am, Aug 16

📍 Rydges South Bank Brisbane, 12th Floor Terrace Room, 9 Glenelg St

Registration and early check-in for the ANSA Conference &

Check-in for the 2-day Preconference Workshop, Neural Networks, with David Cantor

9:00am

A Review of Neural Networks & Theoretical Applications

🕒 9:00am - 5:00pm, Aug 16

📍 Rydges South Bank Brisbane, 12th Floor Terrace Room, 9 Glenelg St

Day 1 of 2-Day Preconference Workshop:

This workshop will provide a review on the evidence to date of neural networks and functional correlates. The workshop will integrate theoretical neurotransmitter networks and a more detailed discussion cross frequency coupled communication through lifetime development and how this enables behavioural adaptability. Models of neurotherapeutic techniques will be reviewed in treating developmental disorders will be discussed. Neural networks are currently the most salient models evolving on how the brain facilitates behavioural adaptability. The science and issues are applicable to the researcher trying to understand how these systems develop and to the clinician to utilize in treating disorders. Participants will attain a basic understanding of neural networks, the complications in understanding when to use the current state of the knowledge in designing neurofeedback and other neurotherapeutic protocols.

Speaker:



David CANTOR

Dr., CEO, Mind and Motion Developmental Center

Fri, Aug 17, 2018

8:30am

Registration Desk Opens

🕒 8:30am - 9:00am, Aug 17

📍 Rydges South Bank Brisbane, 12th Floor Terrace Room, 9 Glenelg St

ANSA Conference registrations & check-in;

Check-in Day 2 Preconference Workshop

9:00am

A Review of Neural Networks & Theoretical Applications

🕒 9:00am - 5:00pm, Aug 17

📍 Rydges South Bank Brisbane, 12th Floor Terrace Room, 9 Glenelg St

Day 2 of 2-Day Preconference Workshop:

This workshop will provide a review on the evidence to date of neural networks and functional correlates. The workshop will integrate theoretical neurotransmitter networks and a more detailed discussion cross frequency coupled communication through lifetime development and how this enables behavioural adaptability. Models of neurotherapeutic techniques will be reviewed in treating developmental disorders will be discussed. Neural networks are currently the most salient models evolving on how the brain facilitates behavioural adaptability. The science and issues are applicable to the researcher trying to understand how these systems develop and to the clinician to utilize in treating disorders. Participants will attain a basic understanding of neural networks, the complications in understanding when to use the current state of the knowledge in designing neurofeedback and other neurotherapeutic protocols.

Speaker:



David CANTOR

Dr., CEO, Mind and Motion Developmental Center

6:00pm

CONFERENCE WELCOME RECEPTION

🕒 6:00pm - 8:00pm, Aug 17

📍 Rydges South Bank Brisbane, Soleil Pool Bar, 9 Glenelg St

This Welcome Reception will enable registered participants of the ANSA Conference & Workshops an opportunity to mix and mingle and celebrate our shared interests in applied neuroscience. Canapes and beverages are included in the price of your Welcome Reception Registration.

Sat, Aug 18, 2018

8:00am

Registration Desk Opens

🕒 8:00am - 8:30am, Aug 18

📍 Plaza Level, BCEC - Brisbane Convention & Exhibition Centre, Grey Street, Brisbane

Registration Desk open for late registrations plus daily check-in for the ANSA Annual Conference

8:30am

Conference Welcome

🕒 8:30am - 8:45am, Aug 18

📍 Plaza Level, BCEC - Room #10

Applied Neuroscience Society of Australasia respectfully acknowledges the traditional custodians of the land on which our organisation is incorporated, and pays respect to elders of Aboriginal and Torres Strait Islander peoples, past and present.

WELCOME everyone, to the 13th Annual Conference of the Applied Neuroscience Society of Australasia. I've only missed the inaugural event but have been coming to conference since I attended the 2nd Annual Conference in Sydney in 2008. Over the past ten years, I have witnessed the incredible depth and breadth of contributions to our field of applied neuroscience and I am very proud and excited to bring you the dynamic program on offer in 2018.

Have a great time!

Michelle Aniftos BCN, MAPS, FCCLP, QEEGD, FANSA

Fellow & President, Applied Neuroscience Society of Australasia

Fellow, Biofeedback Certification International Alliance

Member, Australian Psychological Society

Fellow, APS College of Clinical Psychologists

Diplomate, QEEG Certification Board International

Member, Australian ADHD Professionals Association

8:45am

Model for Multidisciplinary Approach to Integrate Neurofeedback in Developmental Dx

🕒 8:45am - 10:15am, Aug 18

📍 Plaza Level, BCEC - Room #10

A Model for a Multidisciplinary Approach to Integrate Neurofeedback Protocols in the Treatment of Childhood Disorders

David Cantor, Ph.D., M.S., QEEG-D, BCN, FNAN

Neurofeedback therapies need to consider the influence of factors of diet, toxins, and the application of allied health intervention techniques in order to optimize clinical outcomes in developmental disorders. This presentation will provide an overview illustrating the importance of examining patient symptoms in the context of developmental and medical history and how such information either facilitates or undermines neurotherapeutic success. The future of using multivariate discriminant functions to help define functional ability for the purposes of diagnostics but also for treatment will be proposed.

Speaker:



David CANTOR

Dr., CEO, Mind and Motion Developmental Center

10:15am

Welcome to our Silver Sponsors

🕒 10:15am - 11:00am, Aug 18

📍 Plaza Level, BCEC - Room #10

ANSA is very grateful for the support of all of our sponsors including WHOVA, provider of our social media app. In addition, we value the conference participation of *Neurotherapy Institute of Australia, NovaTech EEG, Bio-medical instruments, OchsLabs, TALI Health, MediLink, neuroCare, the Institute of Functional Neuroscience & the Brain, Mind & Memory Institute.*

Representatives of most of these organisations will be available to greet you during breaks within the Tradeshow & Catering area, and are also reachable via our WHOVA app. In addition, a few of these representatives will come forward to address you at various times in the conference program. This morning we welcome from:

- *Bio-medical Instruments, Brian Milstead*

- *TALI Health, Chaitaly Choudhury*

- *MediLink, Mike Terreiro*

- *neuroCare, Florian Pietzsch*

& the Institute of Functional Neuroscience, Randy Beck

11:00am

Morning Tea & Tradeshow

🕒 11:00am - 11:25am, Aug 18

📍 Plaza Gallery

11:30am

Physiology and Clinical Applications of Transcranial DC Stimulation

🕒 11:30am - 12:15pm, Aug 18

📍 Plaza Level, BCEC - Room #10

Dave Siever via live lecture in Australia - August 2019

This session brought to you via Webinar

Transcranial DC Stimulation (tDCS) has been extensively studied since the 1980s, totalling roughly 1000 studies to date. A major advantage of tDCS is that it may be applied directly over an area of concern where the cortical activity over a specific site on the brain may be enhanced or suppressed, much like NF. Given this flexibility,

most any condition can be treated and many neurological functions in normal persons can be enhanced. Over 200 studies on stroke alone (ataxia, apraxia & aphasia) show that tDCS is a powerful catalyst in the recovery of stroke, especially when implemented in conjunction with rehabilitative therapies.

Speaker:



Dave SIEVER
CET, Mind Alive Inc

QEEG changes in stroke, ageing and cognitive decline

🕒 11:30am - 12:15pm, Aug 18

📍 Plaza Level, BCEC - Room #11

In this talk I will cover QEEG research in acute stroke, and also ageing and cognitive decline, including studies done by myself and also international studies. The appearance of slow delta activity (1-4 Hz) is typical in acute stroke, and alpha activity is also affected (e.g. slowed) in more severe strokes. Our studies have shown that QEEG measures of delta power, and delta/alpha power ratio, are very informative for assessing response to acute treatments and also in relation to predicting functional outcomes from stroke. Our current hypothesis is that delta activity may reflect a functional disconnection between cortical and thalamic regions (thalamo-cortical dysrhythmia).

We have also found that early measures of alpha slowing in acute stroke patients may help predict cognitive outcomes. In other studies we have shown that high, resting-state theta (4-7 Hz) power in healthy older adults is associated with better cognitive function. This theta activity is generated in brain networks incorporating medial temporal, anterior cingulate and other cortical regions. We have also found theta power to be lower in people with mild cognitive impairment. Considering various findings from our studies and those of others, we have proposed that two forms of theta-frequency activity exist; one indicative of healthy neurocognitive function and the other, of alpha slowing linked to (future) cognitive decline.

I will aim to discuss the potential implications of QEEG findings such as these, with regard to neurofeedback protocols aiming to address and ameliorate particular conditions or symptoms.

Speaker:



Simon FINNIGAN
PhD; Senior Research Fellow, University of Queensland

12:30pm

Amplitude Neurofeedback: A review of the research

🕒 12:30pm - 1:30pm, Aug 18

📍 Plaza Level, BCEC - Room #10

Speaker:



Moshe PERL

PhD; BCN; QEEGD, Neurotherapy Institute of Australasia/EEGer

What's sleep got to do with it?

🕒 12:30pm - 1:30pm, Aug 18

📍 Plaza Level, BCEC - Room #11

What's sleep got to do with it? The role of sleep in mental and physical health, learning, brain plasticity and neuromodulation treatment outcomes:

Sleep is a complex neurobiological process and the 'new' unconscious. Sleep problems are increasingly identified as having a central role in onset and maintenance of a range of mental and physical health problems. Sleep is an essential cyclical process, essential for our health, well-being and longevity. Understanding, assessing, educating and effectively treating sleep problems should be a core component of our treatment methods.

This session will highlight the importance of identifying and addressing sleep problems in enhancing treatment efficacy and outcomes; the role sleep problems play in onset and maintenance of psychological and behavioural disorders. This presentation will be based on published research and methods as applied in the neuroCare clinic, including the recent finding that concurrent circadian rhythm sleep disorder (CRSD) predicts non-response to rTMS for OCD. The approach highlighted in the presentation is presently not the prevalent 'magic bullet' medication based approach so favoured by medical practitioners and others.

Speaker:



Mark Ryan

Psychiatrist, neuroCare

1:30pm

Lunch & Tradeshow

🕒 1:30pm - 2:25pm, Aug 18

📍 Plaza Gallery

1:45pm

BCIA-A AGM - all BCNs welcome

🕒 1:45pm - 2:15pm, Aug 18
📍 Plaza Level, BCEC - Room #10

Concurrent Exams for BCIA Neurofeedback & QBoard QEEG

🕒 1:45pm - 5:00pm, Aug 18
📍 Plaza Level, BCEC - Room #11

2:30pm

Evidence for LENS Neurotherapy

🕒 2:30pm - 3:15pm, Aug 18
📍 Plaza Level, BCEC - Room #10

This paper will statistically demonstrate that (1) the LENS changes the EEG, and (2) leads to symptom reduction with the use of feedback and without the use of operant conditioning or qEEG-based electrode placement. The LENS uses an hydraulic model of EEG energy flow in the brain, that includes energy flow of suppressive energy, that is tied to EEG changes, and not symptom-tied EEG placements, although all of the usual symptoms are strongly, expeditiously, and non-linearly reduced.

Speaker:



Len OCHS

Ph.D; Consultant, OchsLabs

3:15pm

LENS and Neural Regulation: Brain and Body

🕒 3:15pm - 4:00pm, Aug 18
📍 Plaza Level, BCEC - Room #10

The use of LENS Neurofeedback and its integration with psychotherapeutic interventions is discussed. LENS is unique in the field of neurofeedback in that it applies the concept of neural regulation not only to the brain but also to the body, reflecting both Top-down and Bottom-up interventions. Such an integrated bodymind approach dovetails uniquely with other information processing interventions.

On that basis it is suggested that LENS is ideally suited as either a stand-alone or adjunctive intervention for individuals with a history of developmental trauma who routinely exhibit disorganized and dysregulated neural activity that interferes with effective psychotherapeutic interventions. Approaches unique to the LENS, like the notion of EEG suppression that is specifically relevant to developmental trauma are discussed, as well as adaptations of LENS to this population that include interventions drawn from integrating the neuroscience literature, traditional neurofeedback and clinical observations.

Case studies are presented to demonstrate the integration of LENS neurofeedback and

associated neural regulation approaches into standard trauma treatment interventions. Particularly emphasis is on how such interventions can be interwoven and integrated with more traditional trauma treatment interventions, such as Ego-State Therapy, EMDR and Somatic Psychotherapy. It is proposed that the addition of LENS neurofeedback during all three trauma treatment phases (stabilization phase, trauma processing, re-integration) can assist in increasing therapeutic response by directly intervening at the level of the electrical or frequency domain of brain function.

Larsen S. (2012). The Neurofeedback Solution: How to treat autism, ADHD, anxiety, brain injury, stroke, PTSD, and more. Healing Arts Press: Rochester, VT.

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Larsen, S. (2006). The healing power of neurofeedback. Rochester, VT: The Healing Arts Press.

Peniston EG, Kulkosky PJ. (1989). Alpha-theta brainwave training and beta-endorphin levels in alcoholics. Alcohol Clin Exp Res. Apr 13(2):271-9.

Kluetsch RC, Ros T, Théberge J, Frewen PA, Calhoun VD, Schmahl C, Jetly R, Lanius RA. (2013). Plastic modulation of PTSD resting-state networks and subjective wellbeing by EEG neurofeedback. Acta Psychiatr Scand. Nov 25. doi: 10.1111/acps.12229.

Larsen S. (2012). The Neurofeedback Solution: How to treat autism, ADHD, anxiety, brain injury, stroke, PTSD, and more. Healing Arts Press: Rochester, VT.

Nicholson, A.A., Ros, T., Frewen, P.A., Densmore, M., Théberge, J., Kluetsch, R., & R.A. Lanius (2016). Alpha oscillation neurofeedback modulates amygdala complex connectivity and arousal in posttraumatic stress disorder. NeuroImage Clin. Jul 14(12):506-516

Speaker:



Ulrich LANIUS

PhD; Registered Psychologist, OchsLabs

4:00pm

Afternoon Tea & Tradeshow

🕒 4:00pm - 4:45pm, Aug 18

📍 Plaza Gallery

4:15pm

Becoming Qualified: Your questions answered re training/certifying in QEEG or Neurofeedback

🕒 4:15pm - 4:45pm, Aug 18

📍 Plaza Level, BCEC - Room #10

Michelle Aniftos is a former Chair of the BCIA-Australia and current coordinator of ANSAs

QClub.

Learn how to pursue BCIA Certification in Neurofeedback and/or QEEG Diplomate or Technician status with the QEEG Board.

Speaker:



Michelle ANIFTOS

ANSA President, Director of Mylne Street Mental Health (private mental health clinic)

6:30pm

Gourmet BBQ Conference Dinner at GOMA

🕒 6:30pm - 10:30pm, Aug 18

📍 Gallery of Modern Art, Stanley Place, Cultural Precinct South Bank

Meet you at GOMA at 6.30pm.

You are welcome to dress up or dress casually. Just be sure to wear your dancing shoes and bring a wrap or jacket as we will enjoy our BBQ on the open terrace of GOMA overlooking the Brisbane River.

Beverages and full buffet are included in your registration for this dinner event.

Sun, Aug 19, 2018

8:30am

Registration Desk Opens

🕒 8:30am - 9:00am, Aug 19

📍 Plaza Level, BCEC - Brisbane Convention & Exhibition Centre, Grey Street, Brisbane

Register/check-in for Day 2 Conference Program

8:45am

Welcome to Day 2

🕒 8:45am - 9:00am, Aug 19

📍 Plaza Level, BCEC - Room #10

Dr. Phil Watts, Chair of the BCIA-A, welcomes you to Day 2 of the ANSA Annual Conference.

9:00am

qEEG as a Base to Neurofeedback Treatment: Is it reliable enough?

🕒 9:00am - 9:45am, Aug 19

📍 Plaza Level, BCEC - Room #10

In 2004 a position paper on the standards of use of QEEG in neurofeedback was published by a group of leading therapists in our field (Dr. Hammond, Dr. Walker, Dr. Hoffman, Dr. Lubar, Dr. Trudeau, R. Gurnee, Dr. Hovart). This position paper was accepted by the ISNR board as an official position paper of the ISNR.

The paper states, among other things, that a growing number of clinicians use qEEG to decide on neurofeedback protocols, and that a growing body of peer reviewed research attests to the utility of the qEEG in providing a scientifically objective and clinically practical assessment of a wide range of psychiatric, psychological and medical conditions. The paper also reached the following conclusion: "It is not necessary for a physician to screen raw EEG data as part of a qEEG evaluation for neurofeedback training." In the last 14 years since that position paper was published, many neurofeedback therapists accepted qEEG as their basis for deciding on training protocols, and they use automatic analysis software for holding spectral analysis and comparison to age norms. By the maps and diagrams that the software produces, they decide where to place the electrodes and which frequencies to train.

The presentation will demonstrate step by step why deep understanding of the raw EEG is crucial to reading the qEEG maps and diagrams accurately, in order to reach the correct neurofeedback protocols. The 45-minute presentation will use EEG/qEEG examples to show the following:

- Common EEG artifacts that might distort the information presented by qEEG
- Common mistakes in reading the qEEG maps
- What extra information the raw EEG gives us
- Paroxysmal EEG and its effect on the qEEG

Speaker:



Rivi SELA

Dr. / CEO & Founder of BetterFly Neurofeedback, BetterFly Neurofeedback

10:00am

Optimising Performance in Developmental Disorder

🕒 10:00am - 11:00am, Aug 19

📍 Plaza Level, BCEC - Room #10

- Performance metrics
- Neurophysiological contributors to Developmental Disorder
- Interventions
- Implementation and Implications

Speaker:



Leslie Sherlin

Sport & Performance Psychology Consultant, Sherlin Consulting, LLC

11:00am

Morning Tea & Tradeshow

🕒 11:00am - 11:25am, Aug 19

📍 Plaza Gallery

11:30am

Factors Affecting Learning & Memory: Implications for Intervention

🕒 11:30am - 12:30pm, Aug 19

📍 Plaza Level, BCEC - Room #10

Cognitive processing of contents during learning involves the selection of relevant visual and auditory information, organization of visual & auditory information, activation of the prior contents in memory, and the integration of new contents with the organized verbal and visual information in the brain. These cognitive processes occur in the individual's working memory for information manipulation and long-term memory for permanent storage. Individual differences in multimedia learning depend on multimedia comprehension skills, general intelligence and working memory capacity. This talk will present number of factors affecting learning and memory and the corresponding implications for the intervention techniques that need to be tailored to address these factors in order to enhance individuals' performance in learning.

Speaker:



Aamir MALIK

Associate Professor, Universiti Teknologi PETRONAS

12:30pm

Connecting the Dots in ADHD: insights from research in brain connectivity and network organisation in ADHD and its implications for diagnostic types and treatment

🕒 12:30pm - 1:30pm, Aug 19

📍 Plaza Level, BCEC - Room #10

Attention Deficit Hyperactivity Disorder (ADHD) is characterized clinically by hyperactive/impulsive and/or inattentive symptoms which determine diagnostic subtypes as Predominantly Hyperactive-Impulsive (ADHD-HI), Predominantly Inattentive (ADHD-I), and Combined (ADHD-C).

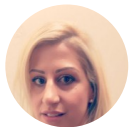
Exponential growth in neurobiological research over two decades, uncovering key brain features underlying functional deficits in response inhibition, hyperactivity, and inattention.

Emerging evidence from these studies suggests that connectivity differences may better conceptualize ADHD subtypes and explain variations in functional symptoms which has led to an increase in the adoption of network based analyses in the ADHD literature. This paradigm shift posits that the clinical symptoms of ADHD may, in fact, result from dysfunctional network connections rather than discrete structural or functional abnormalities. Individual differences in connectivity profiles may also underlie the different clinical symptoms associated with each subtype of ADHD.

We have shown in our studies that local network organization differs between the combined and inattentive ADHD types when measuring structural network properties.

I will aim to discuss the potential implications of brain connectivity and network findings in ADHD subtypes and differences in neural mechanisms between the types with regard to implications for neurofeedback treatment.

Speaker:



Jacqueline SAAD

PSYCHOLOGIST & NEUROSCIENTIST, 1/ My Brain Map™ 2/ Brain Dynamics Centre, The Westmead Institute for Medical Research, University of Sydney

1:30pm

Lunch & Tradeshow

🕒 1:30pm - 2:25pm, Aug 19

📍 Plaza Gallery

1:45pm

APS Neurofeedback Interest Group AGM

🕒 1:45pm - 2:15pm, Aug 19

📍 Plaza Level, BCEC - Room #10

All APS Psychologists (& guests) are welcome to attend our annual AGM. Convener: Martha Mack

2:30pm

Abnormal Cortical Asymmetry as a Target For Neuromodulation in Neuropsychiatric Disorders

🕒 2:30pm - 3:45pm, Aug 19

📍 Plaza Level, BCEC - Room #10

Randy W Beck (1), Jonathan Laugharne (2), Richard Laugharne (3), Wessel Woldman (4)
Brendan McLean (5), Chiara Mastropasqua (6) Ricardo Jorge (1) Rohit Shankar (8)

1. Institute of Functional Neuroscience, Perth, Australia
2. Assoc Professor of Psychiatry, School of Psychiatry and Clinical Neurosciences, University of Western Australia
3. Consultant Psychiatrist, Cornwall Partnership NHS Foundation Trust and Hon, Senior Clinical Lecturer, University of Exeter Medical School
4. Research Fellow, School of Maths, Exeter University
5. Lead Consultant Neurologist Royal Cornwall Hospital Trust Cornwall
6. Institute of Functional Neuroscience, Sydney, Australia
7. Consultant in Adult Developmental Neuropsychiatry – CFT Hon. Associate Clinical Professor, Exeter Medical School

Abstract

Recent advances in our knowledge relating to the organisation of neural circuitry in the human brain have increased our understanding of disorders involving brain circuit asymmetry. These asymmetries, which can be measured and identified utilizing EEG and LORETA analysis techniques may be a factor in mental disorders. New treatments involving non-invasive brain stimulation (NIBS), including trans-cranial magnetic stimulation, direct current stimulation and vagal nerve stimulation, have emerged in recent years. We propose that EEG identification of circuit asymmetry geometries can direct non-invasive brain stimulation more specifically for treatments of mental disorders. We describe new NIBS therapies that have been developed and delivered, and suggest that they are proving effective in certain patient groups. Clinical evidence is at an early stage, but the basic science evidence and early case studies suggest that this may be a promising new modality for treating mental disorders and merits further research.

Speaker:



Randy BECK

Clinical Director; DC PhD FAAFN FACFN , Institute of Functional Neuroscience

3:45pm

Announcing Details of the 2019 ANSA Conference

🕒 3:45pm - 3:45pm, Aug 19

📍 Plaza Level, BCEC - Room #10

Pack your bags. We're off to.....???

& we've invited special guests???

Will we see you there??!!

Speaker:



Michelle ANIFTOS

ANSA President, Director of Mylne Street Mental Health (private mental health clinic)

4:00pm

ANSA Annual General Meeting - all welcome

🕒 4:00pm - 5:00pm, Aug 19

📍 Plaza Level, BCEC - Room #10

President, Michelle Aniftos

Secretary, Annette Andersen

Treasurer, Terry Eichmann

Public Officer, Mirjana Askovic

Immediate Past President, Jon Hegg

Board Members include: Richard Clark, Tim Hill, Michelle Gorgula, Martha Mack, Yvonne Towns, Rustam Yumash, Shelley Hyman

5:00pm

Conference Close & Happy Hour

🕒 5:00pm - 6:00pm, Aug 19

📍 tba

6:00pm

ANSA Executive & Guests' Dinner Meeting

🕒 6:00pm - 9:00pm, Aug 19

📍 tba

By invitation only.

Mon, Aug 20, 2018

8:00am

Registration Desk Open

🕒 8:00am - 9:00am, Aug 20

📍 Arbour Room, Brisbane Convention & Exhibition Centre

Registration & Check-in for 1-day Post-conference Workshop with Rivi Sela,

[Advanced EEG Analysis & Neurofeedback Protocol Design](#)

9:00am

Advanced EEG Analysis & Neurofeedback Protocol Design

🕒 9:00am - 5:00pm, Aug 20

📍 Arbour Room, Brisbane Convention & Exhibition Centre

Learn how to reach more accurate diagnosis and choose the most effective treatment protocol for your trainees!

–
EEG and Quantitative EEG (qEEG) are valuable tools for supporting the diagnosis and targeted, effective therapy of a host of different neuropsychological disorders. This one-day hands-on workshop will go over EEG biomarkers to classify brain disorders and to reach more personalized treatment protocols. The workshop will demonstrate step by step how to analyze Raw EEGs, using sample recordings of patients suffering from ADHD, ASD and Epilepsy.

The workshop will have four parts:

Part 1: Neuromarkers characterizing the different types of ADHD and typical neuromarkers prevalent in ASD.

Part 2: Hands on analysis of qEEG. We will look at the raw EEG and then analyze the qEEG using Spectra charts, diagrams, maps, spike detection and spike averaging. We will also use visualization methods, such as Dipole Approximations and Low Resolution Electromagnetic Tomography (LORETA).

Part 3: Deciding on a treatment protocol based on the Raw EEG and qEEG analyses and following treatment outcomes using qEEG.

Part 4: Open discussion and analysis of EEG recordings brought by the attendees.

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Format and Agenda:

The workshop is a hands-on learning opportunity. The demonstration will use WinEEG for analysis and will use the HBI database for age-norm comparisons. Attendees who would like to practice qEEG analyses in class should bring their laptop computer with their HBI comparison key. **Attendees are welcome to bring EEG recordings of their own clients to be analyzed in class.**

Speaker:



Rivi SELA

Dr. / CEO & Founder of BetterFly Neurofeedback, BetterFly Neurofeedback