

David W. Hagedorn, PhD, BCN

Interests Areas of practice and consulting expertise include applied medical neuroscience, neuropsychology, and neuromodulation. Expertise within these disciplines include the teaching and use of transcranial electrical stimulation (tDCS/rTMS), quantitative electroencephalography (EEG/qEEG), event related potential (ERP), brain computer interface, neurorehabilitation, neurodegenerative diseases, EEG and peripheral biofeedback methods, and neuropsychological assessments.

**Education/
Fellowships** Western Michigan University, Kalamazoo, Michigan (APA Accredited)
* *Gerontology Graduate Specialty Certificate*. 1997.
* *Master of Arts, (M.A.) Applied Behavior Analysis*. 12/1994
* *Bachelor of Science, (B.S.) Psychology*. 4/1990

Fielding University, Santa Barbara, California (APA Accredited)
* *Doctor of Philosophy, (Ph.D.) Clinical Psychology*. 8/27/2007
- Health Psychology Certification. 8/27/2007
- Geropsychology and Neurological Disease Emphasis
* *Master of Arts, (M.A.) Clinical Psychology*. 8/25/2003

Harvard Medical School, Boston, Massachusetts, Postgraduate non-invasive brain stimulation training. 2009.
* *Transcranial Magnetic Stimulation (rTMS)*
* *Direct Current Stimulation (tDCS)*

University of Missouri, Columbia, Missouri
Mental Health Access Initiative – BUMED (Department of the Navy contract)
General & Adolescent Psychiatry Intensive. 2009

NYC Transcranial Direct Current Stimulation Fellowship: NY Medical Society, 2016

**Credentials,
Licensure &
Certifications** Biofeedback Certification International Alliance - Electroencephalography (EEG)
* *Board Certified, Fellow (#E4868) 2006- present*
* *Board of Directors, present*

National Examination for Professional Practice in Psychology (Member)

EMDR Humanitarian Assistance Program (HAP)
* *Eye Movement Desensitization and Reprocessing (Part I, II)*

Association of State and Provincial Psychology Boards
National Register of Health Service Providers in Psychology (#52295)

State Licensure
* Clinical Psychology Board – LP (Texas) 32594
* Clinical Psychology Board – LP (Washington) 3898
* Clinical Psychology Board – LP (North Carolina) 3745
* Clinical Psychology Board – LP (South Carolina) 1117

**Employment
Experience** University of North Carolina, Wilmington, NC
* Adjunct Professor of Psychology, 2019-present

Uniformed Services University of the Health Sciences, Bethesda, Maryland
* Assistant Professor of Family Medicine. 2012-2015
* Assistant Professor of Military Emergency Medicine. 2012-2015

Kinetic Neuroscience, LLC Mt Pleasant, SC

* Chief Science Officer. 2017-present

Coastal Integrative Medicine Jacksonville, NC

* Clinical Director. 2017-present

Evoke Neuroscience, Inc., New York, NY

* Founder, President, Chief Executive Officer, Chief Science Officer. 2008-2018; 2021-present

* Board of Directors. 2008-Present

* Applied neuroscience methods and devices for assessment, research, and specialized interventions.

Naval Hospital Camp Lejeune, Staff/Faculty, Family Medicine Department

Contractor: Science Applications International Corporation (SAIC), Jacksonville, NC

* Health Psychologist, Mental Health Access Initiative 2008-2014

* Neuroscience Instructor and Researcher. 2008-2014

* Supplemental privileges: Neuropsychology, Biofeedback, Hypnosis

* Assigned to the Family Medicine Department at Camp Lejeune, N.C. to provide didactic psychological/psychiatric and neuroscience instruction with integrated mentoring for the Navy Family Practice Residency Program. Direct the Mental Health Rotation for the Navy Family Medicine Residency and offer an elective in applied neuroscience.

Biofeedback Foundation of Europe (BFE)

* EEG Assessment Hardware and Software Development Team for FDA Approval Application – 2010

* Clinical Instructor (Europe, N. America, S. America) 2007-Present

* Research Team Leader (evoked potential) (Europe, N. America, S. America) 2007-Present

* TBI Research Team 2009

Private Practice

* Behavioral Health Services, Inc. Altus, Oklahoma 2004-11/2008

* Neurotherapy and Psychological Services. Dallas, Texas 2004-11/2008

* Coastal Neurotherapy, P.A., Jacksonville, NC 2008-2016

* Coastal Integrative Medicine, P.A., Jacksonville, NC 2017-present

Boards & Clinical Consultant for Brain Function Assessment/Intervention

* Brain & Body Wellness. Dallas, Texas 2004-2008

* ECCAD, Cairo, Egypt 2010-2014

* TMS Solutions –Clinical Advisory Board, Dallas, TX 2016-Present

* Kinetic Neuroscience, LLC, Mt. Pleasant, SC 2018-Present

Ottawa County Community Mental Health, Holland, MI

* Direct psychological assessment and treatment of children through older adults with mental illness and developmental disabilities. 1996-1998

MRC Industries, Inc., Kalamazoo, MI

* Work Services Supervisor; Clinical Team Leader. 1995- 1996

* Supervised adult work-treatment programs for those with mental illness and developmental disabilities.

Sindecuse Health Center – Western Michigan University, Kalamazoo, MI

* CPR/Health Instructor. 1991-1997.

Kalamazoo County Probate Court, Kalamazoo, MI

* Guardian and Ward Advocate. Advisor for new advocates. 1991-1996.

* Awards of Excellence 1993, 1994

Lakeside Boys and Girls Residence, Kalamazoo, MI

* Behavior Analyst; Program Development. 1993-1995.

Community Rehabilitation Services of Michigan, Battle Creek, MI

* Behavior Specialist - Traumatic Brain Injury. 1992-1993.

Olsten Health Care, Inc., Kalamazoo, MI

* Traumatic Brain Injury Treatment. 1991-1992.

Borgess Medical Center, Kalamazoo, MI

* Mental Health Technician – Older Adult, Adult, Pediatric Inpatient Unit. 1989-1992.

* Psychology and Gerontology Internship. 1989.

Internship

Neuropsychology and Psychological Services, Dallas, TX, Altus, OK 2004-2008

* Post-Doctoral Fellowship: Neuropsychological testing, neurotherapy assessment and treatment (2007-2008)

- Neuropsychological assessment and treatment of children, adults, older adults

- Supervised doctoral practicum students and EEG technician staff

- Responsible for liaison services between OK/TX offices

- Provided community training and consultation services

Dallas Metropolitan Consortium Program, Dallas, TX 2003-2004.

* Southern Methodist University (APA Accredited)

- Treated students and their significant others; multicultural, international

- Supervised Masters-level practicum students

- Responsible for liaison services with multicultural offices

- Provided psychological and educational assessments

- Provided clinical counseling services

- Developed, implemented and analyzed data for the assessment and intervention of linking multicultural and international students with mental health services

* University of Texas at Dallas (APA Accredited)

- Treated UTD students and their significant others; multicultural, international

- Provided biofeedback and hypnosis therapy, Provided psychological and educational assessments

Pre-Doctoral Psychology Practicum

Terrell State Hospital, Terrell, Texas 7/2001 -8/2002.

* Child and Adolescent Unit

- Group and individual therapy, psychological and forensic assessment

* Adult Acute Unit

- Forensic Psychological assessment

Community Rehab Services of Michigan, Battle Creek, MI 4/1992 – 2/1993.

* Traumatic Brain Injury Inpatient Residential

- neuropsychological assessment, behavioral programming for aggressive behavior and other behavioral disorders, group therapy, family support meetings, and coordination with insurance and after-care providers.

Committee, Journal Assignments

International Society of Neurotherapy and Research (ISNR) 2007-present.

* Chairperson - Student Advocacy Committee. 2008-present

* Clinical Peer Review Board – International. 2010-present

* Ethics Committee. 2015-present

Biofeedback Certification Institute of America (BCIA). 2008-present.

* Board of Directors 2012-present

* Electroencephalography Committee Member

* Applicant Review Committee

Biofeedback Certification International Alliance (BCIA) – Board of Directors. 2012-present.

* International Board Certification Credentialing Organization for Biofeedback and Neurofeedback

The Journal of Neurotherapy 2008-present.

* Professional Presentation and Research Submission Reviewer

Affiliations/

American Society of Electroneurodiagnostic Technologies (ASET)

Memberships American Psychological Association. 1995-Present.

* Division 19 – Military Psychology

* Division 38 – Health Psychology

* Division 40 – Clinical Neuropsychology

Association for Applied Psychophysiology and Biofeedback (AAPB)

Society for Psychophysiological Research (SPR)

International Society of Neurofeedback and Research (ISNR)

Association for Advancement of Behavior Therapy (AABT)

**Military
Service**

United States Army 3-126th INF, HHC. MI National Guard, Wyoming, MI

* Senior Treatment NCO. 1997-1998.

* Battalion Fitness Coordinator. 1994-1998.

* Medical Evacuation NCO. 1994-1997.

* Battalion Drug Testing Team, NCOIC. 1994-1997.

* Medical Treatment NCO. 1989-1994.

Jungle Operations Training, U.S. Army. Fort Sherman, Panama. 1995.

* Medical Evacuation NCO. 1995.

United States Army 394th Station Hospital, Reserve, Grand Rapids, MI.

* Medical Specialist. 1987-1989.

**Select
Lectures,
Papers &
Patents**

Electrophysiologic Assessment and Neuro-Stimulatory Approaches to The Treatment of Pain.

Stress, Pain, and Addiction: Transformative Treatments and Innovative Solutions: 2019 Annual

International Conference, San Antonio, Texas, May 30-June 1, 2019

Can Chronic Diseases Be Reversed: *Applied electrophysiology for assessing and treating memory impairments.* Villages, FL, March 2018, February 2019

Pinellas County Osteopathic Medical Society (PCOMS): *Medical Neuroscience Applications for Pain.* Tampa, FL, January 20, 2017.

Metabolic Medical Institute: Module XV-D: Brain Fitness (AMA CME)

Chicago, Oct. 2015

Neurotech Investing & Partnering Conference, 9th Annual, “*Measure, Modulate, Train*” *Traumatic Brain Injury & Stroke: Applications of non-invasive brain stimulation and brain computer interface.* Boston, MA April 24, 2014

U.S. Marine Corps Forces Special Operations Command Medical Symposium,
Applied Neuroscience for Optimal Performance, Camp Lejeune, NC, March 5-7, 2014

American Academy of Anti-Aging Medicine, Annual Conference, *Integrating Neuroscience Methods into a Peak Performance & Functional Medicine Practice*, Las Vegas, NV, December 2013

Society for the Advancement of Brain Analysis, *Applied neuroscience for the assessment and treatment of combat related head injury and PTSD*, Charleston, SC, 2013

Uniformed Services Academy of Family Physicians,
2010 Annual Conference, *Applied Neuroscience for Military Medicine*

U.S Army Medical Research and Material Command, 2011
Division of Psychiatry and Neuroscience, Silver Spring, MD
Applied Neuroscience Advances for Increased PTSD and mTBI Treatment Capabilities

Traumatic Brain Injury Clinic, Camp Lejeune Naval Hospital, 2009

Review of Neuroscience Applications for TBI Center of Excellence

North Carolina Biofeedback Society, Annual Conference Keynote, 2009
Neuroscience for Clinical Practice

Boston University, NHL Sports, 2009
Brain Interface Assessment and Treatment Applications for Athletes

Moss, D., Hagedorn, D., Combatalade, D., Neblett, R. (2019). Care for biofeedback and neurofeedback instrumentation. *Biofeedback*, 47(1), 12-21.

Bikson, M., ...Hagedorn, D., et. al. (2018). Limited output transcranial electrical stimulation (LOTES-2017): Engineering principles, regulatory statutes, and industry standards for wellness, over-the-counter, or prescription devices with low risk. *Brain Stimulation*, 11, 134-57.

Hagedorn, D. (2014). Infection risk mitigation for biofeedback providers. *Biofeedback*, 42(3), 93-95.

Bredeson, D., ... Hagedorn, D. (2018). Reversal of cognitive decline: 100 patients. *Journal of Alzheimer's Disease and Parkinsonism*, 8(5), 1-6.

Hagedorn, D. (2012). Multimodal analysis: new approaches to the concussion conundrum, *Journal of Clinical Sports Psychology*, 6, 22-46

Hagedorn, D. (2012) Multimodal management of military combat posttraumatic stress disorder (PTSD), *Neuroconnections*, Spring, 11-17

Thompson, M., ... Hagedorn, D. (2011). Networks: A compelling rationale for combining neurofeedback, biofeedback, and strategies. *Neuroconnections*, 8-1

U.S. Patent filing: Hagedorn, D. Headgear with displaceable sensor for electrophysiology measurement and training. U.S. Patent No.: 8,938,301 B2; Issued: January 20, 2015.

U.S. Patent filing: Hagedorn, D. Transcranial stimulation device and method based on electrophysiological testing. U.S. Patent No.: 8,239,030 B1; Issued: August 7, 2012.

**Military
References**

Paul E. Rapp, Ph.D., Professor
Director, Traumatic Brain Injury Research Program
Department of Military and Emergency Medicine
Uniformed Services University of the Health Sciences
4301 Jones Bridge Road
Bethesda, MD 20814-4799
Ph: 301-295-3590
Email: PRapp@usuhs.mil

Victor Barnes, M.D., Psychiatrist
Mental Health Department, Naval Hospital Camp Lejeune
100 Brewster Blvd.
Camp Lejeune, NC 28547
Ph: 910-450-4700
Email: skii@aol.com