Curriculum Vitae

General Information's

Douglas F. Watt Ph.D. Clinic for Cognitive Disorders Quincy Medical Center 114 Whitwell St. Quincy, MA 02169

E-Mail: DrDougWatt@GMail.com Fax: 508-657-8605 Place of Birth: Chicago, Illinois

EDUCATION

UNDERGRADUATE

1972 BA Psychology and Religion/General Studies. Harvard College, Cambridge, MA. Honors: Cum Laude.

GRADUATE

1976 M.Ed. in Community Mental Health Counseling Psychology. Northeastern University, Boston, MA. Masters Thesis: Interdisciplinary Perspectives on Depression. Honors: Cum Laude.

1985 Ph.D. in Counseling Psychology Boston College, Chestnut Hill, Mass. APA Approved Doctoral Program. Dissertation: 'A Critical Analysis of Rorschach Investigations of Borderline and Narcissistic Disorders: A Comparison of Two Groups'. Honors: Cum Laude.

POSTDOCTORAL TRAINING:

1985-86 – Postdoctoral Internship in Clinical Psychology (specializing in Cognitive Assessment and Psychiatric Diagnosis). Human Resource Institute – Outpatient Department. Brookline, MA. Supervisor: Dr. Mel Barton

LICENSURE AND CERTIFICATION:

1986 – Licensed Psychologist/Healthcare Provider in the State of Massachusetts Qualified Psychologist – Department of Mental Health – 1987 (Section 12 Involuntary Commitment).

ACADEMIC APPOINTMENTS:

1988 – 2010. Instructor in Neuropsychology/Psychiatry Boston University School of Medicine.
1992–1993. Lecturer in Psychoanalysis and Neuroscience – Psychoanalytic Institute of New England.
2000 – 2005. Core Faculty, Boston Graduate School of Psychoanalysis (Brookline, MA).
2007 – 2013. Teaching Fellow in Psychiatry (teaching clinical neuroscience). Harvard Medical School.

HOSPITAL OR AFFILIATED INSTITUTION APPOINTMENTS:

September 1975 – June 1976. Student Intern in Clinical Psychology – Mystic Valley Mental Health Center, Arlington, MA.

August 1976 – March 1978. Milieu Therapist – Human Resource Institute In-Patient Service.

May 1977 – September 1981. Allied Health Staff – Human Resource Institute at Franklin, Franklin, MA. September 1982 – December 1986. Allied Health Staff – Human Resource Institute at Boston, Brookline, MA

October 1986 – April 1987. Consulting Psychologist and Neuropsychologist – Chelmsford Medical Associates, Chelmsford, MA

January 1987 – August 1991. Medical Staff. Malden Hospital, Malden, MA.

August 1991–2002. Affiliate Medical Staff, Quincy Medical Center.

2000 - present. Affiliate Medical Staff, Lawrence Memorial Hospital, Malden, MA.

2002 - present Allied Health Staff, Quincy Medical Center.

VISITING APPOINTMENTS:

April 2007. Visiting Marsico Scholar. Denver University, Cognitive Neuroscience Department.

HOSPITAL AND HEALTHCARE ORGANIZATION: CLINICAL AND ADMINISTRATIVE RESPONSIBILITIES:

September 1975 – June 1976. Student Intern/Student Practicum in Clinical Psychology – Mystic Valley Mental Health Center, Arlington, MA.

August 1976 – March 1978. Milieu Therapist – Human Resource Institute In–Patient Service.

May 1977 – September 1981. Staff Psychologist – Out–Patient Department, Human Resource Institute At Franklin, Franklin, MA.

September 1981 – May 1982. Internship In Child Psychology – Out–Patient Department of Human Resource Institute At Boston in Franklin, MA.

September 1982 – December 1986. Staff Psychologist – Human Resource Institute at Boston, Brookline, MA

October 1986 – April 1987. Consulting Psychologist and Neuropsychologist – Chelmsford Medical Associates, Chelmsford, MA.

December 1986 – January 1987 Attending Psychologist and Treatment Team Leader – The Psychiatric Institute at Malden Hospital

January 1987 – August 1991. Chief Psychologist/Neuropsychologist – Psychiatric Institute at the Malden Hospital, Malden, MA.

Sept 1991–1996. Acting Director of Psychiatric In–Service Education – Quincy Hospital, Quincy, MA)

Sept. 1992 – March 2004. Director of Neuropsychology/Psychology. Quincy Medical Center, Quincy, MA.

August 2000 – present. Consulting Neuropsychologist, Affiliate Medical Staff, Lawrence Memorial Hospital, Malden, MA. Inpatient Neuropsychological Evaluations on Medical-Psychiatry Service.

March 2004 – Present. Senior Neuropsychologist, Quincy Medical Center. Private practice involving Inpatient, Outpatient, Transitional Care Unit and Acute Medical Service neuropsychological consultations and evaluations.

July 2010 – Present. Senior Neuropsychologist, Alzheimer's Center, Center for Healthy Aging, Quincy Medical Center.

July 2011 – Present. Co-Director, Brain Injury and Concussion Center, Clinic for Cognitive Disorders, Quincy Medical Center.

MAJOR COMMITTEE ASSIGNMENTS:

1994–2001 Membership Committee – National Academy of Neuropsychology
1999–2002 Seminar Committee – Association for the Scientific Study of Consciousness.
1999-2000 Electronic Seminar Coordinator – Association for the Scientific Study of Consciousness.

PROFESSIONAL SOCIETIES:

1989 to 1994, 2006 – present. National Academy of Neuropsychology
1988 to 2004. American Psychological Association – Division 40 – Clinical Neuropsychology
1998-2004. Association for the Scientific Study of Consciousness
2004 – present. Massachusetts Neuropsychological Society
March, 2006 – present. Professional Associate, Behavioral and Brain Sciences.

EDITORIAL BOARDS AND RELATED WORK:

1999-2010 Board of Editors for *Neuropsychoanalysis*.
1999-2003. Board of Editors for *Emotion and Consciousness*.
2011-present. Board of Editors *Frontiers in Neurology*. *Frontiers in Aging Neuroscience*2000-present. Ad Hoc Submission Reviewer for *Journal of Consciousness Studies*.
2000-present. Ad Hoc Submission Reviewer for *Consciousness and Cognition*.
2004-present. Ad Hoc Submission Reviewer *Medical Science Monitor*.
2008-present. Ad Hoc Submission Reviewer *Archives of Clinical Neuropsychology*.
2008-9. Guest Editor - Blackwell Companion to Consciousness (edited chapter on Global Disorders Of Consciousness (submitted by Niko Schiff).
2009-present Ad Hoc Submission Reviewer for *Neuropsychoanalysis*2011-present. Board of Editors *International Journal of Brain and Cognitive Sciences*.
2011-present Ad Hoc Submission Reviewer Trends in Neuroscience.
2012-present Ad Hoc Submission Reviewer Trends in Cognitive Science.
2013-present Board of Editors Journal of Psychology and Psychotherapy Research

PART II

SELF-REPORT OF RESEARCH, TEACHING, AND CLINICAL CONTRIBUTIONS:

My primary teaching responsibilities for over 15 years from 1991 through 2006 have been at Boston University School of Medicine, where I have taught a regular six and then three week rotation of third-year medical students rotating through our Inpatient Geropsychiatry Service, in a formal seminar/didactic format consisting of three hours a week of formal didactic presentation as well as teaching clinical assessment techniques, focusing specifically on helping students to understand the process of clinical neuropsychological assessment. Until the Fall of 2008 this teaching also involved rotating third-year residents and fourth-year fellows from the Psychiatry Department at BUSM. Topics covered in these teaching contacts have included a detailed review of neurodegenerative disorders (Alzheimer's disease and other major neurodegenerative disorders), delirium and confusional states, basal ganglia disease and function, the neurobiology of pain, the neurobiology of depression, and the clinical syndromes associated with closed head injury/concussion and brain trauma (topics with which I have been intimately familiar clinically and on which I have written book chapters).

In the academic years 2007/2008/2009/2010/2011/2012/2013, I organized and administered a clinical neuroscience seminar at Cambridge Health Alliance for Harvard Medical School for both postdoctoral fellows as well as senior clinical staff in the clinical neuroscience disciplines (Neurology, Psychiatry, Geriatrics and Neuropsychology). This seminar involved a 35 week curriculum in 2007/2008, covering a more extensive curriculum involving the neuroscience of consciousness, emotion, and cognition (available as a course syllabus under separate cover). In 2008/2009/2010/2011/2012/2012, a briefer 20-25 week curriculum emphasized functional neuroanatomy and a review of the biology of aging, neurodegenerative diseases (AD, FTD, DLBD), delirium, and depression was also given at Cambridge City Hospital (Cambridge Health Alliance). An emphasis in this was helping students understand common denominators between the biology of aging and the diseases of aging, and with an emphasis on prevention, and the role of lifestyle factors in relationship to both aging and its diseases.

I have presented regularly at both national and international conferences on these areas of specialization and interest, giving a talk on Emerging Concepts of Alzheimer's Disease at the National Academy of Neuropsychology (NAN) Annual Conference in October 2010, and at the 2011 annual meeting of the Gerontological Society of America, and in 2013 at the Massachusetts Neuropsychological Society. During the NAN 2007 Annual Conference, I presented a detailed summary of Basal Ganglia Disease and Function. In the spring of 2008, I gave a five hour seminar to the Boston Institute of Psychotherapy on Affective Neuroscience and the neural substrates of primary emotion. In December 2008, I organized and led a small group intensive seminar (20 hours) with Jaak Panksepp on Topics in Affective Neuroscience, summarizing the neuroscience of mammalian playfulness, separation distress and social bonding, the extensive psychiatric and neuroscience literature on depression and the emerging neuroscience of empathy, in December in Playa Del Carmen at Royal Hideaway Playacar. In June, 2009, I gave an invited talk at the American Psychological Association annual conference on neural substrates of prototype emotional systems (with Jaak Panksepp). We had another winter affective neuroscience seminar organized with Jaak Panksepp in December of 2012 held in Puerto Vallarta. Videography of all affective neuroscience seminar sessions is available on high-resolution Blu-ray on request. I have also presented in 2008/2009/2012, on Delirium and Confusional States at the National Academy of Neuropsychology Annual Conference.

My primary research and professional publication interests center around several areas of affective and cognitive neuroscience, and the implications of affective neuroscience for clinical psychiatry and other clinical neurosciences, including for psychotherapy. My publication work has focused on writing major review articles that synthesize and summarize current research on these topics of interest in neuroscience. Several of these have been reviewed as benchmark summaries of the topic including: 1) the clinical syndrome of delirium and confusional states; 2) the neurobiology of depression; 3) the neural substrates of conscious states and disorders of consciousness; 4) the nature and neural substrates of empathy; 5) modes of dialogue and bridging between older psychodynamic conceptions of human behavior and newer neuroscientific conceptions; 6) reticular activating system concepts; 7) Alzheimer's disease; 8) the biology of aging and its relationship to the diseases of aging. I provided a core neuroscience foundations chapter (with David Pincus PhD and second author) in the 2005 *Textbook of Biological Psychiatry* (Wiley, edited by Jaak Panksepp) on the neural substrates of

conscious states, and clinical disorders of consciousness.

In 2007, I produced a Target Article on the neural substrates of empathy (attempting to integrate both cognitive and affective perspectives on empathy), with invited commentaries from researchers in the field of empathy. An update to that chapter will become the lead basic science book chapter in a 2014 Nova Series publication with Jaak Panksepp as second author on the chapter, and Jaak Panksepp and I are editing the nova volume (covering neurobiological and psychological dimensions of empathy) as well which will contain contributions from numerous empathy researchers and theorists. Another Target Article was completed in 2009 (with Jaak Panksepp again as second author) on the neurobiology of depression, as depression is our most common and in many ways still most 'mystified' mental health problem. We argue in this exhaustive 30,000 word review that the traditional 'bottom-up' reductionist view of depression in clinical psychiatry neglects solid evidence that depression is a conserved mammalian brain mechanism, which may have been originally selected to terminate protracted separation distress, a potentially fatal state to vulnerable and distressed infant mammals separated from their conspecifics. This suggests that depression is part and parcel of an integrated group of processes selected with basic social attachment promoting the creation of a social brain. The review covers literature on neural network, neuropeptidergic, classic aminergic, and neuroendocrine perspectives on depression, and integrates psychological and psychodynamic perspectives on depression and its treatment. We argue that the molecular and reductionist approach in mainstream psychiatry (popularized in the oft-repeated notion that depression is a 'chemical imbalance') actually mystifies and fragments the real biology of depression, and removes it from its real evolutionary context, as an intrinsic vulnerability of a highly social brain dependent on social attachments. We believe that this 'chemical imbalance' mantra has been very successful in selling SSRIs and other aminergic agents that are minimally effective antidepressants, while severely shorting psychotherapy as a treatment for many depressed patients, who often times never have the option to talk to someone about what stresses might have precipitated their depression, and where classic stressors such as social isolation and other forms of social loss are subsequently never mitigated. We see this as a major tragedy in healthcare and taking place in the service of powerful commercial interests but not part of optimal patient care.

To pursue research initiatives related to depression, I initiated a primary research affiliation with the Mind-Brain Consortium (Summa Health Systems, Akron Ohio), and we attempted investigation of the therapeutic effects of buprenorphine (a novel mu opiate partial agonist and kappa opiate antagonist) in refractory depressions – a research initiative that unfortunately has been scuttled in the context of what can only be described as regulatory paranoia about such a study potentially promoting opiate addiction. We see this as a tragedy, as buprenorphine may be the best antidepressant that nobody knows about. We believe that the combination of partial mu agonism and kappa antagonism may make buprenorphine the most underutilized and underappreciated antidepressant in the pharmacologic armamentarium, neglected for both economic reasons (it is off patent) and because of its long-term association with opiate addiction and methadone maintenance, which makes clinicians and review boards deeply uncomfortable with it, despite evidence that its anti-depressant efficacy is achievable at doses of only .2 mg, well under any dose in which mu agonist effects might generate any version of an 'opiate high' (see Watt and Panksepp, 2009 for details).

An additional recent research and clinical affiliation is with Dr. Anil Nair, at the Alzheimer's Disease Center, Quincy Massachusetts, in relationship to the exploding epidemic of Alzheimer's disease. I am contributing two chapters (no co-authors) to Dr. Nair's edited volume, *Textbook of Geriatric Neurology*: 1) depression in the elderly and 2) the biology of aging, and the diseases of aging, and how lifestyles, calorie restriction and CR mimetics affect both aging and its diseases. This second chapter is the lead basic science chapter of the textbook.

Additionally, I am a regular reviewer of submitted manuscripts for several journals dealing with the brain and mind, including *Archives of Clinical Neuropsychology, Human Brain Mapping, Neuropsychoanalysis, Consciousness and Cognition, Journal of Consciousness Studies*, and several others. I am currently reviewing submitted neuroimaging work on interoception and empathy for *Human Brain Mapping*. In 2011, I was appointed to the Board of Review Editors for *Frontiers in Neurology, Frontiers in Aging Neuroscience* and *Frontiers in Dementia*.

LOCAL TEACHING CONTRIBUTIONS:

GRADUATE COURSES (DOCTORAL LEVEL):

Fall semester, 2000 Attending and Primary Lecturer. Doctoral Level Course (four credits) in Affective Neuroscience. Doctoral Program, Boston Graduate School of Psychoanalysis. 15 graduate students, five to eight hours preparation time, plus three hours of contact time per week.

Fall semester, 2001. Attending and Primary Lecturer. Doctoral Level Course (four credits) in Affective Neuroscience. Doctoral Program, Boston Graduate School of Psychoanalysis. 15 graduate students, five to eight hours preparation time, plus three hours of contact time per week.

Fall semester, 2004. Attending and Primary Lecturer. Doctoral Level Course (four credits) in Affective Neuroscience. Doctoral Program, Boston Graduate School of Psychoanalysis. 15 graduate students, five to eight hours preparation time, plus three hours of contact time per week.

SEMINARS (ORGANIZED/LED):

1993–96. 25 Week Yearly Seminars on Major Categories In DSM-III-R/DSM-IV at Quincy Hospital.

1993–1996 25 Week Yearly Seminar in Clinical Neuroscience at Quincy Hospital (Covering Topics In Neuropsychology, Neuropsychiatry, and Behavioral Neurology) for Clinical Nursing Staff.

January 2000 Five Day Seminar on Affective Neuroscience. (15 hours) (see presentations re: talks given).

January 2001 Five Day Seminar on Affective Neuroscience. (15 hours) (see presentations re: talks given).

October 2001. Affective Neuroscience Seminar (9 hour seminar over three evenings). Boston Psychoanalytic Institute. Basic Concepts in Affective Neuroscience: Implications for An Interdisciplinary Science of Emotion.

August 1st-5th, 2005. Seminar in Affective Neuroscience. The Nature of Prototype Emotional States. 15 hr (five day) Seminar at New England Education Institute (Cape Cod Symposium).

April 29th-30th, 2006. Seminar in Affective Neuroscience. Implications of Recent Findings for Psychotherapists and Psychiatric Clinicians. 8 hours of presentation at yearly conference of the Institute of Contemporary Psychotherapy & Psychoanalysis (ICP&P). Washington DC.

October, 2007. Seminar in Affective Neuroscience. The Neuroscience of Emotion for Psychiatric and Psychotherapeutic Clinicians. Boston Institute for Psychotherapy. Five weekly one-hour presentations.

October, 2007 – June, 2008. Weekly Seminar in Affective and Cognitive Neuroscience. Academic Year 2007, Harvard Medical School trainees (residents, post doctoral fellows) and clinical staff in Neuropsychology, Neurology, and Psychiatry. (35 hrs) Cambridge Health Alliance, Cambridge City Hospital.

December, 2008. Seminar in Affective Neuroscience (with Jaak Panksepp) (18 hrs) Playa Del Carmen (see presentations list for individual contributions)

March - July 2009. Weekly seminar in functional neuroanatomy at Cambridge Health Alliance, teaching neuropsychology senior staff, and neuropsychology post doctoral fellows in functional neuroanatomy.

February - June 2010. Weekly seminar in functional neuroanatomy at Cambridge City Hospital, teaching neuropsychology senior staff, and neuropsychology post-doctoral fellows in neuroanatomy and neurodegenerative disorders and delirium.

February - June 2011. Weekly seminar in functional neuroanatomy at Cambridge City Hospital, teaching neuropsychology senior staff, and neuropsychology post-doctoral fellows in neuroanatomy, neurodegenerative disorders, aging, and diseases of aging.

March – June 2012. Weekly seminar in selected topics in clinical neuroscience functional neuroanatomy at Cambridge City Hospital, teaching neuropsychology senior staff, and neuropsychology post-doctoral fellows in neuroanatomy, neurodegenerative disorders, aging, and diseases of aging.

April – June 2013. Weekly seminar in clinical neuroscience and functional neuroanatomy at Cambridge City Hospital, teaching neuropsychology senior staff, and neuropsychology post-doctoral fellows in neuroanatomy, neurodegenerative disorders, aging, and diseases of aging.

December, 2012 Seminar in 'Update on Affective Neuroscience' (with Jaak Panksepp as co-organizer) 18 hours Puerto Vallarta (see presentations list for individual contributions)

GENERAL PRESENTATIONS (GRAND ROUNDS, CONFERENCE PRESENTATIONS, ETC):

(From 1984–1989, truncated and partial listing of presentations at Human Resource Institute, McLean Hospital, Quincy Hospital, Choate Health Systems, Caulfield Center, Malden Hospital):

- Borderline Personality Disorder vs. Borderline Personality Organization?
- Devaluation: Its Phenomenology, Structural Implications For Axis II Diagnosis, and Management: Challenges To In–Patient Therapists and Milieus.
- Schizophrenia: Neuropsychology, Neurobiology and Subtype Analysis.
- Differential Diagnosis of Depression and Affective Illness.
- Dissociative Disorders: Why We Don't Want to Believe that MPD Really Exists
- Biological and Psychological Perspectives On Depression: Towards Integration.
- Recent Findings In Neuroimaging of Depression: Corticolimbic Networks, Monoamines and Self-Esteem
- An Overview of Borderline, Schizoid, Paranoid and Narcissistic Personality Disorders: Implications For Short Term In–Patient Treatment.
- An Overview of PTSD Syndromes: Is PTSD an Anxiety or a Dissociative Disorder?
- The Psychobiology, Neuropsychology, and Psychodynamics of Trauma and Dissociation.
- Problems In The Differential Diagnosis of The Anxiety Disorders.
- Neuropsychological Syndromes & Neuropsychological Assessment In Psychiatry.
- The Neuropsychology and Differential Diagnosis of Disorders of Attention.
- A Review of Somatoform Disorders: Problems With The Current Nosology.
- Neglect of "Institutional Transference" and Collapse of Therapeutic Alliance in In–Patient Psychiatry: Implications for Milieu Therapy.
- Theories of Short–Term Psychotherapy and Their In–Patient Application In Group, Family, Milieu and Individual Treatment Modalities.
- TLE Ictal and Inter–ictal Syndromes and Their Differential Diagnosis: General Implications For Theories of Brain–Behavior Relationships.
- HIV Organic Mental Disorders: Phenomenology and Differential Diagnosis.
- Problems In The Differential Diagnosis of Dementia and Delirium: Synergism Versus Exclusion
- The Neurobiology and Neuropsychology of Memory and Amnesia.
- Medical Neuropsychology: the Neurocognitive Impact of Severe Organ Disease.

- Memory and Amnesia: Neurobiology and Neuropsychology of Memory and Memory Disorders.
- **1990** Differential Diagnosis of Multiple Personality Disorder: Etiology, Epidemiology and Phenomenology. Psychiatry Symposium at Malden Hospital. April 1990.
- **1993** Problems in the Differential Diagnosis of Dementia, Delirium, and Depression: "Either/Or" Traps in Current Diagnostic Thinking in Geropsychiatry. Symposium at Quincy Hospital. April, 1993.
- **1994** Towards Integration of Neurobiology and Psychoanalysis: A Current Status Report. Grand Rounds, University Hospital, Boston University School of Medicine. March, 1994.

Towards Integration of Neurobiology and Psychoanalysis: A Current Status Report. Grand Rounds at Ether Dome, Massachusetts General Hospital, Harvard University School of Medicine. April, 1994.

Problems in the Current Diagnosis of Dementia, Delirium, and Depression: the Synergism of Primary Syndromes in Geropsychiatry. Grand Rounds at the Quincy Hospital. May, 1994.

Problems in Differential Diagnosis of Alzheimer's Disease: Update on a True Epidemic. Symposium at Quincy Hospital. June, 1994.

Towards The Reconciliation of Psychoanalysis and Neurobiology: Impetus and Challenge To Neural Network Theory. World Congress of Neural Networks: International Neural Network Society. June, 1994.

1995 The Neuropsychiatric Epidemic of Alzheimer's Disease: Perspectives on Differential Diagnosis of Dementia Syndromes. Grand Rounds, Human Resource Institute, Brookline, MA. June, 1995.

Ontogenesis of Value and the Bootstrapping of Consciousness: Neurodevelopmental Perspectives On Limbic and Corticolimbic Networks and Syndromes of Diseased Consciousness. Invited Speaker, World Congress of Neural Networks: International Neural Network Society. July, 1995.

- **1996** Limbic and Corticolimbic Networks and Neurodevelopmental Perspectives in Current Theories of Consciousness: Syndromes of Diseased Consciousness. Invited Speaker, Second International Conference on Scientific Basis for Consciousness. April, 1996.
- **1997** The Neuropsychiatric Epidemic of Alzheimer's Disease: Recent Developments in Differential Diagnosis and Treatment. Grand Rounds at Quincy Hospital. January, 1997.

Affect and the "Hard Problem" of Consciousness: Neurodevelopmental Issues, Corticolimbic Networks, and Extended Reticular Thalamic Activating System Theories of Consciousness. Speaker at Brain and Self Conference. Ellsinore, Denmark. August, 1997.

1998 Differential Diagnosis of Delirium and Confusional States: A Growing Epidemic in General Hospitals Grand Rounds at Quincy Hospital. February, 1998.

Speaker, Session on Emotion and Volition, Third International Symposium Towards a Scientific Theory of Consciousness "Affect and the Hard Problem: Corticolimbic Networks, Neurodevelopment: Implications for ERTAS Theories of Consciousness." Tucson, Arizona. April, 1998.

Address from the Chair, Chair of Plenary Session on Emotion and Consciousness, Third International Symposium Towards a Scientific Theory of Consciousness. Tucson Arizona. April, 1998.

Emotion and Consciousness: Implications of Affective Neuroscience for ERTAS Theories of Consciousness. Association for the Scientific Study of Consciousness Annual Conference. Bremen, Germany. June, 1998.

Affective Neuroscience, Periaquaductal Gray, and the Extended Reticular Thalamic Activating System. Invited Speaker, *International Ischia Conference on Emotion and Consciousness*, Ischia, Italy. October, 1998.

Extended Reticular Thalamic Activating System (ERTAS) Theories of Consciousness and Emotion Theory. Neurophysiology Lab, Mass Mental Health Center, Harvard Medical School. November, 1998.

1999 Delirium and Confusional States: Differential Diagnosis and Treatment on Acute Medical Inpatient Services. Grand Rounds. Quincy Hospital, Quincy, MA. January, 1999.

Emotion and Consciousness: Global State Functions, the "Limbic System" and the Extended Reticular Thalamic Activating System. Neurobiology Program, Bowling Green University, Bowling Green OH. February, 1999.

Delirium and Confusional States as Disorders of Consciousness: Update on a Commonplace but Confusing Syndrome In Geropsychiatry and Clinical Neuroscience. Clinical Psychology Program, Bowling Green University, Bowling Green OH. February, 1999.

Periaqueductal Gray (PAG) as a "Peri-Reticular" System: Implications for Understanding Vertical Neural Integration in Emotion. Invited Speaker. Neurophysiology, Sleep and Dream Lab, Mass Mental Health Center, Harvard Medical School. July, 1999.

Damasio's Recent Contributions to a Theory of Consciousness: A Critical Review. Joint Harvard University and Boston University Neuroscience Seminar Group. August, 1999.

Periaqueductal Gray (PAG) as a "Peri–Reticular" System: the Centrencephalon and Consciousness. Invited Speaker, Neuropsychoanalysis Lecture Series, New York Psychoanalytic Society, NYC. December, 1999.

2000 Mesodiencephalic Foundations of Emotion in Periaqueductal Gray. Seminar in Affective Neuroscience and Consciousness Studies at Playa Del Carmen, (Seminar Leader and Coordinator). January, 2000.

Periaqueductal Gray and Emotion Theory. Presentation at Fourth International Symposium Towards a Scientific Theory of Consciousness, Tucson Arizona. April, 2000.

Challenges and Progress Towards Dialogue Between Psychoanalysis and Neuroscience. Summary Address, Invited Speaker. Anna Freud Center Symposium on Neuroscience and Psychoanalysis. London, England. July, 2000.

2001 Psychoanalysis and Neuroscience: Old Adversaries Starting a Dialogue. Affective Neuroscience Seminar in Dominican Republic. January, 2001.

Periaqueductal Gray and Thalamocortical Integration. Affective Neuroscience Seminar in Dominican Republic. January, 2001.

Alzheimer's Disease: Neuropsychology, Neurobiology, Etiology and Treatment. Affective Neuroscience Seminar in Dominican Republic. January, 2001.

A Synthesis of Perspectives on Episodic Memory in Neuroscience and Psychoanalysis. New York City, Annual Conference of Neuropsychoanalysis. Summary Address, Invited Speaker. April, 2001.

Emotion, Consciousness and the Brainstem: Duke University, North Carolina. Annual Conference for the Association for the Scientific Study of Consciousness. Three Hour Workshop. June, 2001.

Psychotherapy in an Age of Neuroscience: New Opportunities in the Renaissance of Affective Neuroscience. University of Warwick, Coventry, UK. Keynote Address. Annual Conference for UK Council for Psychotherapy. September, 2001.

Delirium and Confusional States: Basic Diagnostic and Treatment Considerations. Symposium Presentation. Quincy Medical Center, October, 2001.

2002 Delirium and Confusional States: Insights into the Attentional Matrix and Working Memory. Joint Harvard University and Boston University Neuroscience Review Group. January, 2002.

Alzheimer's Disease: Staging a Disease of Aging and Neuroplasticity: An Overview of Recent Research Findings. Presentation to Eastern Massachusetts Alzheimer's Association In–Service Education Group. January, 2002.

A Brief Primer on the Neuroscience of Emotion. Colorado College Neuroscience/Psychology Department Colloquium. April, 2002.

Neural Substrates for Consciousness: Three Case Studies/Heuristics. Joint Harvard University and Boston University Neuroscience Seminar Group. May, 2002.

Delirium and Confusional States: An Update for Primary Care Physicians on a Confusing Syndrome in Geropsychiatry and Neuropsychiatry. Medical Grand Rounds. July, 2002. Quincy Medical Center.

Neurobiology and Neuropsychology of the Basal Ganglia and Basal Ganglia Diseases. Joint Harvard University and Boston University Neuroscience Seminar Group. August, 2002.

Neurobiology and Neuropsychology of the Basal Ganglia and Basal Ganglia Diseases. Grand Rounds in Psychiatry. Boston University School of Medicine. September, 2002.

- **2003** Neurobiology and Neuropsychology of Attachment. Joint Harvard University and Boston University Neuroscience Seminar Group. November, 2003.
- **2004** Neural Substrates of Attachment. Santa Fe Institute Conference on Emotional Bases of Cooperation and Punishment. February, 2004.

Neurobiology and Neuropsychology of Attachment: Implications for Psychotherapy. Boston Society for Neuropsychoanalysis. March, 2004.

Neurobiology and Neuropsychology of Attachment. Grand Rounds in Psychiatry. Boston University School of Medicine. April, 2004.

Neuropeptides and CNS Emotional Systems: Implications for the Future of Psychopharmacology. Joint Harvard University and Boston University Neuroscience Seminar Group. April, 2004.

Neurobiology and Neuropsychology of "Spiritual Experiences": Summary of a Confusing Literature. Workshop for Conference of the Institute of Contemporary Psychotherapy & Psychoanalysis (ICP&P). October, 2004.

Attachment Mechanisms and the Bridging of Science and Religion: Old Adversaries in A New Dialogue. Plenary Talk at Conference of the Institute of Contemporary Psychotherapy & Psychoanalysis (ICP&P). October, 2004.

Empathy: Many Models, Little Consensus. Joint Harvard University and Boston University Clinical Neuroscience Seminar Group. October, 2004.

2005 Delirium in the Post-Surgical Patient. Grand Rounds in Surgery. Quincy Medical Center. February, 2005.

Neural Substrates and Neuropsychology of Empathy. Grand Rounds, Harvard Medical School (Neurophysiology/Sleep Lab). April, 2005.

The Neurology and Neuropsychology of Central Pontine Myelinolysis. Grand Rounds in Medicine. Quincy Medical Center. May, 2005.

Overview of Basal Ganglia Function and Disease. Massachusetts Neuropsychological Society. October, 2005.

2006 Implications of Emerging Affective Neuroscience for Updating Psychoanalytic Metapsychology. National Psychological Association for Psychoanalysis (NPAP). Invited Talk. February, 2006.

The Neuropsychology and Neurobiology of Pain. Recent Findings. Implications for an Interdisciplinary View of Pain. Boston Society for Neuropsychoanalysis. February, 2006.

The Neuropsychology and Neurobiology of Pain: the Nexus of Pain, Consciousness and Emotion. Joint Harvard University and Boston University Clinical Neuroscience Seminar Group. February, 2006.

The Nature of Empathy. Invited Presentation to Denver University Cognitive Neuroscience Doctoral Program (sponsor Dr. Cathy Reed) April, 2006.

The Dialogue between Science and Religion. Consilience or Just Plain Chaos? Denver University Undergraduate Honors Program Symposia. April, 2006.

The Neuropsychology and Neurobiology of Pain: the Nexus of Pain, Consciousness and Emotion. Grand Rounds, Harvard Medical School (Neurophysiology/Sleep Lab). April, 2006.

Depression as a Conserved Mammalian Mechanism: Challenges to Interdisciplinary Integration. Annual Congress on Neuropsychoanalysis. Research Day Introductory Comments (from the Chair). July, 2006

Depression: Integration of Neurobiological and Psychological Perspectives. Special Topic Presentation Grand Rounds, Quincy Medical Center. October, 2006.

The Basal Ganglia in Sickness and in Health. 2 Hour Neuroanatomy Special Topics Talk, National Academy of Neuropsychology Annual Conference. October, 2006.

Depression: Neuropeptidergic and Aminergic Perspectives. Depression as a Conserved Mammalian Shutdown Mechanism in Protracted Separation Distress. Part I. Joint Harvard University and Boston University Clinical Neuroscience Seminar Group. October, 2006.

Depression: Integration of Aminergic and Peptidergic Perspectives. Invited Special Topic Presentation for Psychiatric Residents, Boston University Psychiatry Department. Boston University School of Medicine, Boston, Massachusetts. November, 2006.

Depression: A Conserved Mammalian Brain Mechanism for Terminating Separation Distress. Part II. Neural Network Perspectives. Joint Harvard University and Boston University Clinical Neuroscience Seminar Group. December, 2006.

2007 The Neurobiology of Pain. Cognitive Neuroscience Department, Denver University. Dr. Cathy Reed, Chair/Sponsor. April, 2007. (Visiting Marsico Scholar)

The Neuroscience of Play and Humor. Undergraduate Symposium on Clinical and Affective Neuroscience, Denver University. April, 2007. (Visiting Marsico Scholar)

Depression: An Evolutionarily Selected Mechanism to Terminate Protracted Separation Distress. A Review of Aminergic, Peptidergic, and Neural Network Perspectives. Summa Health Systems Psychiatric Grand Rounds, Akron, Ohio. April, 2007.

Challenges in the Conceptualization of Motivation in Neuroscience – Implications for Psychoanalysis. Invited Speaker, Symposium on Neuroscience and Psychoanalysis. International Neuropsychoanalysis Society. May, 2007. London, UK.

Address from the Chair, Introductory Comments. "Depression as a challenging collection of neural correlates – the need for interdisciplinary integration and bridging." Session on the Neurobiology of Depression. International Congress of Neuropsychoanalysis. July, 2007. Vienna, Austria.

Depression and the Pleasure Principle: Anhedonia of the Social Brain? (co-authored with Jaak Panksepp). Invited Plenary Presentation, International Congress of Neuropsychoanalysis. July, 2007. Vienna, Austria.

Depression: Top Down and Bottom Up Perspectives Have to Meet Somewhere: An Evolutionary Hypothesis about Depression and Separation Distress. Boston Neuropsychoanalysis Work Group September, 2007.

Delirium and Confusional States: An Update on the Confusing and Commonplace Syndrome. Special Topic Presentation. National Academy of Neuropsychology Annual Conference. November 16th, 2007.

Diseases of Aging, Calorie Restriction, and Resveratrol. Joint BU & Harvard Medical School Faculty Neuroscience Seminar (run by Brenda Bemporad, Ph.D.) December 10th, 2007

2008 Depression: an Evolutionarily Conserved Mechanism to Terminate Protracted Separation Distress. Evidence for a Depressive Matrix? Joint Boston University School of Medicine/Harvard Medical School Clinical Neuroscience Seminar Group. January, 2008 2 hrs

Depression: an Evolutionarily Conserved Mechanism to Terminate Protracted Separation Distress. Neuroendocrine, Aminergic, Peptidergic and Immune Aspects of a Depressive Matrix? The Arnold Pfeffer Center for Neuropsychoanalysis at the New York Psychoanalytic Institute, Neuropsychoanalysis Lecture Series. June 6, 2008 1.5 hrs

Foundations of Human Affects: A Neuro-Evolutionary Vision of Basic Emotions. Invited Talk (with coauthor Jaak Panksepp, Ph.D.), Symposium on "What is Basic About Basic Emotions". American Psychological Association Annual Convention, August, 2008. 30 minutes

Resveratrol and Calorie Restriction Mimetics. Invited brief presentation (~ 5 min), Bravo Life & Leisure Television Series. Boca Raton Florida. August, 2008.

Delirium and Confusional States: An Update on a Commonplace and Confusing Syndrome National Academy of Neuropsychology Special Topics Presentation (1.5 hours) New York, New York October, 2008

The Basic Neuroscience of Alzheimer's Disease: A Cascade of Age-Related Neuroplasticity Failure (.5 hr). Invited Presentation Alliance Imaging Symposium on Alzheimer's Disease. Quincy, MA November, 2008

Depression: Evidence for a Depressive Matrix? Affective Neuroscience Seminar, Playacar, Mexico. December 15th, 2008. 2 hrs

Rethinking Our Losing Battle against the Diseases of Aging: Why We Are Losing the Battle and What We Can Do Differently. (Part One - Demographics and Mechanisms of the Diseases Of Aging) Affective Neuroscience Seminar, Playacar, Mexico. December 16th, 2008. 1.5 hr

Rethinking Our Losing Battle against the Diseases of Aging: Why We Are Losing the Battle and What We Can Do Differently. (Part Two - Calorie Restriction, Polyphenols, and Synergistic Effects of Exercise, Healthy Diet, and Sleep) Affective Neuroscience Seminar, Playacar, Mexico. December 17th, 2009 1.5 hr

Empathy: Integrating Cognitive and Affective Perspectives. Affective Neuroscience Seminar, Playacar, Mexico. December 15th, 2008. December 18th, 2009 1.5 hr

2009 Alzheimer's Disease: A Cascade of Age-Related Neuroplasticity Failure. Oxidative Stress, Inflammation, Amyloid Processing, and Neurofibrillary Tangling. Boston University and Harvard Medical School Faculty Neuroscience Seminar (run by Brenda Bemporad, Ph.D.) January, 2009 1.5 hr

Rethinking Our Losing Battle against the Diseases of Aging: Why We Are Losing the Battle and What We Can Do Differently. Boston University and Harvard Medical School Faculty Neuroscience Seminar (run by Brenda Bemporad, Ph.D.) (Part One - Demographics and Mechanisms of the Diseases Of Aging) February, 2009 1.5 hr

Rethinking Our Losing Battle against the Diseases of Aging: Why We Are Losing the Battle and What We Can Do Differently. Boston University and Harvard Medical School Faculty Neuroscience Seminar (run by Brenda Bemporad, Ph.D.) (Part Two - Calorie Restriction, Polyphenols, and Synergistic Effects of Exercise, Healthy Diet, and Sleep) March, 2009 1.5 hr

An Overview of Alzheimer's Disease: A Cascade of Age-Related Neuroplasticity Failure. Berenson-Allen Center for Noninvasive Brain Stimulation (CNBS), Beth Israel Deaconess Hospital (Chief – Dr. Alvaro Pascual-Leone) February, 2009. 1 hr

Depression: an Evolutionarily Conserved Mechanism to Terminate Protracted Separation Distress. Neuroendocrine, Aminergic, Peptidergic and Immune Aspects of a Depressive Matrix? Neurophysiology Laboratory, Beth Israel Deaconess Hospital (Harvard Medical School). (Dr. Ed Pace-Schott) March, 2009. 1 hr

The Science of Aging: Oxidative Stress, Inflammation, Glycation of Proteins, and Insulin Resistance As Four Horsemen of Aging - Implications for Aging Gracefully and Staying Young(er). Invited Symposium for Advanced Placement Psychology and Biology at Kent School, Kent Connecticut. 2.0 hours May, 2009

Delirium and Confusional States: an Update on a Confusing and Commonplace Syndrome in Medicine. National Academy of Neuropsychology Annual Conference. Special topics presentation, two hours. New Orleans. November, 2009.

Depression: An Update on Our Most Common Emotional Disorder - An Evolutionary Perspective on Depression as a Mechanism to Terminate Separation Distress. Part I: The Biology of Separation Distress and the Opioid Systems. Boston University and Harvard Medical School Faculty Neuroscience Seminar (run by Brenda Bemporad, Ph.D.) December, 2009 1.75 hours

2010 Depression: Part II: Endocrine and Cytokine Perspectives. Evidence for an interactive depressive matrix. Boston University and Harvard Medical School Faculty Neuroscience Seminar (run by Brenda Bemporad, Ph.D.) January, 2010 1.75 hours

Depression: Part III: Treatment Issues. The Neglect of Psychotherapy: Can Big Pharma be trusted in their presentation of antidepressant efficacy data? March, 2010 1.75 hours.

Update on Alzheimer's Disease: Biomarkers and Etiology. Possible relationships between amyloid metabolism, inflammation, and oxidative stress in promoting synaptic failure. How a conspiracy of originally adaptive mechanisms creates progressive brain failure. Boston University and Harvard Medical School Faculty Neuroscience Seminar (run by Brenda Bemporad, Ph.D.) January, 2010 2.0 hours

Alzheimer's Disease: Neuroplasticity Failure from Oxidative Stress, Inflammation and Amyloid Cascades. (How AD might emerge from aging – the problem amyloid-centric views cannot explain). National Academy of Neuropsychology Annual Conference. October, 2010. 1.5 hours

2011 Calorie Restriction Mimetics and the Diseases of Aging Part I: the Current Healthcare Crisis and the Impending Fiscal Collapse of the Healthcare System. Boston University and Harvard Medical School Faculty Neuroscience Seminar (run by Brenda Bemporad, Ph.D.) February 21st, 2011 2.0 hours

Calorie Restriction Mimetics and the Diseases of Aging Part II: Studies on CR Mimetics: Resveratrol, Quercetin, Rapamycin, and Other CR Mimetics. Boston University and Harvard Medical School Faculty Neuroscience Seminar (run by Brenda Bemporad, Ph.D.) March 14th, 2011 2.0 hours

Delirium and Confusional States: Update on a Confusing Syndrome. Grand Rounds for QMC Hospitalists. Quincy Medical Center. September 22nd, 2011. 1.25 hours

The Healthcare Crisis, Aging, and the Diseases of Aging: Has 'Modern Medicine' Forgotten Darwin's Central Insight? Visiting Scholar Symposium, Washington State University. Faculty sponsor: Jaak Panksepp, PhD. October 21, 2011. 1.5 hours

Preclinical Alzheimer's Disease: Update On A Confusing and Pleiotropic Disease. National Conference for the Gerontological Society of America. Invited speaker. November 18th, 2011. Boston, Massachusetts 1.0 hour

Update on the Current Healthcare Crisis: Metabolic Syndrome, Obesity and Diabetes – Are Modern Lifestyles Fatal? Boston University and Harvard Medical School Faculty Neuroscience Seminar (run by Brenda Bemporad, Ph.D.) November 14th, 2011 2.0 hours

Update on the Current Healthcare Crisis: Recent Work on CR Mimetics – A Coming Option for Protection Against Diseases of Aging? Boston University and Harvard Medical School Faculty Neuroscience Seminar (run by Brenda Bemporad, Ph.D.) December 12th, 2011 2.0 hours

2012 Update on Delirium and Confusional States: Continuing Conceptual Confusion about a Commonplace Syndrome in Medicine and Neuropsychiatry. National Academy of Neuropsychology Annual Conference. October, 2010. 2.0 hours

Empathy and the Prosocial Brain: Integrating Affective and Cognitive Perspectives. Puerto Vallarta Affective Neuroscience Seminar. December, 2012. 3.0 hours

Depression As a Conserved Shutdown Mechanism in Mammalian Brains: Neurobiological Factors in a Depressive Matrix. Puerto Vallarta Affective Neuroscience Seminar. December, 2012. 3.0 hours

The Biology of Aging and the Diseases of Aging: Why We Are Losing the Battle against the Diseases of Aging. Lifestyles and Aging Phenotypes – Are Aging Phenotypes an Interactive Conspiracy? Puerto Vallarta Affective Neuroscience Seminar. December, 2012. 3.0 hours

2013 Empathy and the Prosocial Brain: Factors in 'Gating' of Empathy as a Pro-Social Process. Boston University and Harvard Medical School Faculty Neuroscience Seminar (run by Brenda Bemporad, Ph.D.) January 12th, 2013 2.0 hours

Empathy and the Prosocial Brain - Part II. Integrating Human and Animal Models. Boston University and Harvard Medical School Faculty Neuroscience Seminar (run by Brenda Bemporad, Ph.D.) January 12th, 2013 2.0 hours

Diet and Exercise: Viable Prevention Strategies for Neuroprotection and Reducing Risk of and Progression in Alzheimer's Disease. Norwell Adult Day Center. Keynote on Prevention of AD. March 27th, 2013. 1 hour.

Endocrine Dyscrasia: A Recently Described Phenotype Of Aging? Interaction with other aging phenotypes, and implications for fresh perspectives on Alzheimer's disease and its prevention and therapeutic treatment. Boston University and Harvard Medical School Faculty Neuroscience Seminar (run by Brenda Bemporad, Ph.D.) April 8, 2013. 2.0 hours

Neuroinflammatory Perspectives on a Refractory Disease of Aging: Inflammation aa Primary Driver in Alzheimer's Disease? – Challenges to the Classic Amyloid Hypothesis. Boston University and Harvard Medical School Faculty Neuroscience Seminar (run by Brenda Bemporad, Ph.D.) October 14th, 2013. 2.0 hours

Alzheimer's Disease as a Disease of Inflammation? Challenges to the Amyloid Hypothesis from a Pleiotropic & Confusing Disease. Mass Neuropsychological Society November 12th, 2013. 1.5 hours

PART III

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