

CURRICULUM VITAE

BARTLEY G. HOEBEL

CONTENTS

Education	2
Degrees	2
Research and Professional Positions	2
Honors and Awards	2
Societies and Positions	3
Advisory and Editorial Boards	4
Grants	5
Edited Books	5
Research Articles and Review Chapters	5
Abstracts	16
Major Invitations	29
Extracurricular Activities	34

Name: Bartley G. Hoebel
Birth date: May 29, 1935
Birth place: New York, New York

EDUCATION

Primary: Grade School, Pleasantville, New York
Secondary: High School, Salt Lake City, Utah

Undergraduate: Harvard University, Cambridge, Massachusetts
Major: Psychology (1953-1957)

University of Minnesota, Minneapolis, Minnesota
Course: Organic Chemistry (Summer, 1956)

Graduate: Rockefeller Institute, New York, New York
Major: Neurophysiology (1957-1960)

Woods Hole Marine Biological Laboratories
Course: Neurophysiology (Summer, 1958)

University of Pennsylvania, Philadelphia, Pennsylvania
Major: Physiological Psychology (1960-1962)

DEGREES

A.B. - 1957 Harvard University, Cambridge Massachusetts
Ph.D. - 1962 University of Pennsylvania, Philadelphia, Pennsylvania
Docteur Honoris Causa, Université Catholique de Louvain, Belgium, 1991

RESEARCH AND PROFESSIONAL POSITIONS

Laboratory Assistant, Harvard University, 1956-1957
Graduate Fellow, Rockefeller Institute, 1957-1960
Research Assistant, University of Pennsylvania, 1960-1961
Graduate Fellow, University of Pennsylvania, 1961-1962
Instructor, University of Pennsylvania, 1962-1963
Postdoctoral Fellow, University of Pennsylvania, Summer, 1963
Assistant Professor, Department of Psychology, Princeton University, 1963-1967
Associate Professor, Department of Psychology, Princeton University, 1967-1970
Professor, Department of Psychology, Princeton University, 1970-present

HONORS AND AWARDS

A.B. *Magna cum Laude* - Harvard, 1957
Rockefeller Institute Graduate Fellow, 1957-1960
National Institute of Health Graduate Fellow, 1961-1962

National Institute of Health Postgraduate Fellowship, Summer, 1963
Pennsylvania Psychological Society Award for Graduate Student Research, 1961
First Prize, American Institutes of Research Creative Talents Awards Program, 1962-1963
Prize awarded by Psychopharmacology Division of the American Psychological Association for research paper with D. E. Smith and M. B. King, 1969
Docteur Honoris Causa, Université Catholique de Louvain, Belgium, 1991
Fellow:
Divisions 6 & 28, American Psychological Association, 1974
American Association for the Advancement of Science, 1977
International Behavioral Neuroscience Society, 1995
American Psychological Society, 1988
Obesity Society, 1980
Distinguished Scientist Lecturer Award. American Psychological Association, 2005.

SOCIETIES AND POSITIONS (* indicated elected)

Sigma Xi, 1958
American Association for the Advancement of Science, 1963-present
Section Committee: Representative of the Eastern Psychological Association, 1997-2002
Eastern Psychological Association, 1963-present
Program Committee, 1981-1983
*Board of Directors, 1993-1996
**President, 1997-1998
Past-president, 1998-1999
Psychonomic Society, 1963-1970
American Psychological Association
Representative to Society for Neuroscience, 1987-1990
Division 28: Psychopharmacology, 1964-present
Division 6: Behavioral Neuroscience and Comparative Psychology, 1964-present
*Executive Board, Division 6, 1981-1983, 1987-1991
*Representative to Council of APA for Division 6 1987-1990
**President of Division 6, 1994-1995
Past-president, 1996-1997
American Psychological Society, 1988-present
Animal Behavior Society, 1965-1970
American Physiological Society, 1969-1983
Society for Neuroscience, 1971-present
Research Society on Alcoholism, 2003-present
Princeton University
Committee on Neuroscience, 1972-present
Committee on Continuing Education, 1980-1981
Institutional Animal Care Committee, 1983-1998
Chair, 1988-1998
New York Academy of Sciences, 1982-present
New Jersey Academy of Sciences, 1980-present
Obesity Society, 1980-present
Society for Stimulus Properties of Drugs, 1985-1996

Society for the Study of Ingestive Behavior, 1986-present
 *Secretary, 1989-1990
 Long Range Planning Committee, 1994-1995
 **President, 1995-1996
 Past-President, 1996-97
 New Jersey Neuropsychopharmacology Society, 1987-1990
 New Jersey Governor's Scientific Advisory Committee, 1985-1988; Liaison to New Jersey Academy of Science
 American Chemical Society, Division of Analytical Chemistry, 1988-1990
 American Psychological Society, 1989-present
 Committee on Problems of Drug Dependence, 1989-present
 European Behavioural Pharmacology Society, 1989-present
 International Behavioral Neuroscience Society, 1992-present
 The International Neuropeptide Society, 1994-present
 European Winter Conference on Brain Research
 National Correspondent, USA, 1990-present
 Winter Conference on Brain Research
 *Board of Directors, 1990-1991, 1997-2000

ADVISORY AND EDITORIAL BOARDS

National Institutes of Health/NICHD, Ad Hoc Grant Review Committee, 1990
 National Institute of Drug Abuse, Ad Hoc Grant Review Committee, 1985, 1989, 2005
 Industrial Advising:
 Thompson Medical Company, 1976
 Squibb Institute for Medical Research, 1980
 Campbell Soup Company, 1984
 Les Laboratoires Servier, 1984
 Eli Lilly & Company, 1989
 American Cyanamid, 1989
 Interneuron Pharmaceutical, Inc., Scientific Advisory Board, 1988-1992
 Sanofi-Synthelabo Research, 1999
 Wyeth-Ayerst Research 2000-2003
 Editorial Boards:
Behavioral Biology, 1973-1976
American Journal of Physiology, 1976-1979
Appetite, 1980-present;
 Co-Executive Editor, 1995-2002
Psychological Review, 1980-1990
Nutrition: The International Journal of Applied and Basic Nutritional Sciences,
 Editorial Advisory Board: Associate Editor, 1998-1999
 Reviewer for: *Journal of Neuroscience; Pharmacology, Biochemistry and Behavior;*
Psychopharmacology; Brain Research; Behavioral Neuroscience; Physiology and Behavior;
Brain Research Bulletin; Journal of Neuroscience; Appetite: Determinants and Consequences
of Eating and Drinking

GRANTS

National Institute of Mental Health, 1963-1978; 1981-1985; 2002-2007
National Institute of Drug Abuse, 1976-1981; 1985-1993; 1996-2000; 2001-2003, 2005-2009
National Institute of Neurological Diseases and Stroke, 1993-1996
National Institute of Alcohol Abuse and Alcoholism, 2001-2004, 2005-2010
National Science Foundation, 1964-1970
Nutrition Foundation, 1963-1966
KROC Foundation, 1978
Thompson Medical Co., 1976-1980; 1983-1988
3-M Central Research, 1980-1981
Squibb Institute for Medical Research, 1980-1982
Campbell Soup Company, 1984-1990, 2007-2008
Weight Watchers, 1987-1989
Les Laboratories Servier, 1984-1990; 1991-1993
Pfizer, 1988
New Jersey Commission on Science and Technology, 1987-1990
American Cyanamid, 1989-1991
Eli Lilly and Company, 1989-1991
Scottish Rite Foundation Schizophrenia Research Program, 1989-1991
Wyeth-Ayerst Research, 2001-2003
Minnie and Bernard Lane Foundation, 1999-present
Foundation (via University of Florida (2008

EDITED BOOKS

Hoebel, B.G. & Novin, D. (Eds.). (1982). *The Neural Basis of Feeding and Reward*. Brunswick, ME: Haer Institute.
Wellman, P.J. & Hoebel, B.G. (Eds.). (1997). *Ingestive Behavior Protocols*. New York, NY: Society for the Study of Ingestive Behavior.

RESEARCH ARTICLES (* asterisk indicates review article)

Hoebel, B.G. & Teitelbaum, P. (1962). Hypothalamic control of feeding and self-stimulation. *Science*, 135, 375-377.
Also published in T.K. Landauer (Ed.), (1967). *Readings in Physiological Psychology* (pp. 259-264). New York: McGraw-Hill.
Hoebel, B.G. & Teitelbaum, P. (1962). Hypothalamic control of feeding and self-stimulation. In T.K. Landauer (Ed.), *Reprint Series in the Social Sciences* (No. P-508). Indianapolis: Bobbs-Merrill.
Hoebel, B.G. (1964). Electrode-cannulas for electrical or chemical treatment of multiple brain sites. *Electroencephalography and Clinical Neurophysiology*, 16, 399-402.
Hoebel, B.G. (1965). Hypothalamic lesions by electrocauterization: disinhibition of feeding and self-stimulation. *Science*, 149, 452-453.
Caggiula, A.R. & Hoebel, B.G. (1966). "Copulation-reward" site in the posterior hypothalamus. *Science*, 153, 1284-1285.
Hoebel, B.G. & Teitelbaum, P. (1966). Weight regulation in normal and hypothalamic hyperphagic rats. *Journal of Comparative and Physiological Psychology*, 61, 189-193.

- Hoebel, B.G. (1967). Intra-gastric balloon without gastric surgery for the rat. *Journal of Applied Physiology*, 22, 189-190.
- Balagura, S. & Hoebel, B.G. (1967). Self-stimulation of the hypothalamus modified by insulin and glucagon. *Physiology & Behavior*, 2, 337-340.
- Mount, G. & Hoebel, B.G. (1967). Lateral hypothalamic reward decreased by intra-gastric feeding: self-determined "threshold" technique. *Psychonomic Science*, 9, 265-266.
- Rosenquist, A.C. & Hoebel, B.G. (1968). Wheel-running elicited by electrical stimulation of the brain. *Physiology & Behavior*, 3, 563-566.
- Hoebel, B.G. (1968). Inhibition and disinhibition of self-stimulation and feeding: hypothalamic control and post-ingestional factors. *Journal of Comparative and Physiological Psychology*, 66, 89-100.
- King, M.B. & Hoebel, B.G. (1968). Killing elicited by brain stimulation in rats. *Communications in Behavioral Biology*, 2(Part A), 173-177.
- Hoebel, B.G. & Teitelbaum, P. (1968). Hypothalamic control of feeding and self-stimulation. *Reprint Series*. Jefferson, OR: MSS Publishing Co.
- Hoebel, B.G. & Thompson, R.D. (1969). Aversion to lateral hypothalamic stimulation caused by intra-gastric feeding or obesity. *Journal of Comparative and Physiological Psychology*, 68, 536-543.
- *Hoebel, B.G. (1969). Feeding and self-stimulation. *Annals of the New York Academy of Sciences*, 157-R2, 758-778.
- Hoebel, B.G. (1969). Behavioral homeostasis. In D. Bucklin (Ed.), *Biology for Individualized Study*. New York: Harper & Row, Publ.
- Smith, D.E., King, M.B. & Hoebel, B.G. (1970). Lateral hypothalamic control of killing: Evidence for a cholinergic mechanism. *Science*, 167, 900-901.
Also published in F.J. McGuigan & P.J. Woods (Eds.), (1972). *Contemporary Studies in Psychology*. New York: Appleton-Century-Crofts.
- Devor, M.G., Wise, R.A., Milgram, N.W. & Hoebel, B.G. (1970). Physiological control of hypothalamically elicited feeding and drinking. *Journal of Comparative and Physiological Psychology*, 73, 226-232.
- Caggiula, A.R. & Hoebel, B.G. (1970). "Copulation-reward" site in the posterior hypothalamus. In: R.R. Quiggle (Ed.), *Selected Academic Readings*. New York: Simon & Schuster.
- Hoebel, B.G. (1971). Feeding: Neural control of intake. *Annual Review of Physiology*, 33, 533-568.
- Smith, D.E. & Hoebel, B.G. (1973). Wheel-running in rats: Possible involvement of a cholinergic mechanism. *International Research Communication System*, (73-10), 7-10-13.
- Ahlskog, J.E. & Hoebel, B.G. (1973). Overeating and obesity from damage to a noradrenergic system in the brain. *Science*, 182, 166-169.
- Ahlskog, J.E., Randall, P.K., & Hoebel, B.G. (1975). Hypothalamic hyperphagia: Dissociation from hyperphagia following destruction of noradrenergic neurons. *Science*, 190, 399-401.
- Hoebel, B.G., Cooper, J., Kamin, M., & Willard, D. (1975). Appetite suppression by phenylpropanolamine in humans. *Obesity and Bariatric Medicine*, 4, 192-197.
- Hoebel, B.G., Krauss, I.K., Cooper, J., & Willard, D. (1975). Body weight decreased in humans by phenylpropanolamine taken before meals. *Obesity & Bariatric Medicine*, 4, 200-206.
- Hoebel, B.G., Hernandez, L., & Thompson, R.D. (1975). Phenylpropanolamine inhibits feeding, but not drinking, induced by hypothalamic stimulation. *Journal of Comparative and Physiological Psychology*, 89, 1046-1052.
- *Hoebel, B.G. (1975). Brain reward and aversion systems in the control of feeding and sexual behavior. In J.K. Cole & T.B. Sonderegger (Eds.), *Nebraska Symposium on Motivation* (Vol. 22, pp. 49-112), Lincoln, NE: University of Nebraska Press.
- Breisch, S.T., Zemlan, F., & Hoebel, B.G. (1976). Hyperphagia and obesity following serotonin depletion by intraventricular p-chlorophenylalanine. *Science*, 192, 382-385.

- Kornblith, C. & Hoebel, B.G. (1976). A dose-response study of anorectic drug effects on food intake, self-stimulation, and stimulation-escape. *Pharmacology Biochemistry and Behavior*, 5, 215-218.
- *Hoebel, B.G. (1976). Satiety: Hypothalamic stimulation, anorectic drugs, neurochemical substrates. In D. Novin, W. Wyrwicka & G. Bray (Eds.), *Hunger: Basic Mechanisms and Clinical Implications* (pp. 33-50). New York: Raven Press.
- Hart, B.L. & Hoebel, B.G. (1976). Stereotaxic surgery. In B.L. Hart (Ed.), *Experimental Psychobiology* (pp. 26-36). San Francisco: W. H. Freeman & Co.
- Hart, B.L. & Hoebel, B.G. (1976). Hypothalamic self-stimulation and feeding behavior. In B. L. Hart (Ed.), *Experimental Psychobiology* (pp. 74-79). San Francisco: W. H. Freeman & Co.
- *Hoebel, B.G. (1976). Brain-stimulation reward and aversion in relation to behavior. In A. Wauquier & E.T. Rolls (Eds.), *Brain-Stimulation Reward* (pp. 335-372). Amsterdam: North Holland Publ.
- Zemlan, F.P., Trulson, M.E., Howell, R., & Hoebel, B.G. (1977). Influence of p-chloroamphetamine on female sexual reflexes and brain monoamine levels. *Brain Research*, 123, 347-356.
- *Hoebel, B.G. (1977). Pharmacologic control of feeding. *Annual Review of Pharmacology and Toxicology*, 17, 605-621.
- *Hoebel, B.G. (1977). Hyperphagia: A neurochemical analysis. In F.P. Brooks & P.W. Evers (Eds.), *Nerves and the Gut* (pp. 440-458). Thorofare, NJ: Charles Black Publ.
- *Hoebel, B.G. (1977). The psychopharmacology of feeding. In L.L. Iversen, S.D. Iversen & S.H. Snyder (Eds.), *Handbook of Psychopharmacology* (Vol. 8, pp. 55-128). New York: Plenum Press.
- *Hoebel, B.G. (1978). Three anorectic drugs: Similar structures but different effects on brain and behavior. *International Journal of Obesity*, 2, 157-162.
Also published in G.A. Bray (Ed.), (1979). *Obesity, Kroc Foundation Symposium on Comparative Methods of Weight Control* (pp. 59-68). London: John Libbey & Co.
- Resnick, S.I., Hernandez, L., Chen, J., & Hoebel, B.G. (1978). Effect of the anorectic drug, phenylpropanolamine, on blood glucose in rats. *Pharmacology*, 17, 157-162.
- *Hoebel, B.G. & Hernandez, L. (1978). Feeding and weight regulation: Basic mechanisms. *Psychiatric Clinics of North America*, 1, 473-492.
Also published as: Hernandez, L. & Hoebel, B.G. (1980). Basic mechanisms of feeding and weight regulation. In A.J. Stunkard (Ed.), *Obesity* (pp. 25-47). Philadelphia: W. B. Saunders Co.
- *Hernandez, L. & Hoebel, B.G. (1978). Hypothalamic reward and aversion: A link between metabolism and behavior. In W.L. Veale & K. Lederis (Eds.), *Current Studies of Hypothalamic Function Metabolism and Behaviour* (Vol. 2, pp. 72-92). Basel, Switzerland: Karger.
- Hoebel, B.G., Zemlan, F.P., Trulson, M.E., MacKenzie, R.G., DuCret, R.P., & Norelli, C. (1978). Differential effects of p-chlorophenylalanine and 5,7-dihydroxytryptamine on feeding in rats. In J.H. Jacobs & L.D. Lytle (Eds.), *Serotonin Neurotoxins* (pp. 590-594). Annals of the New York Academy of Sciences.
- *Hoebel, B.G. (1979). Hypothalamic self-stimulation and stimulation-escape in relation to feeding and mating. *Federation Proceedings*, 38, 2454-2461.
- MacKenzie, R.G., Hoebel, B.G., DuCret, R.P., & Trulson, M.E. (1979). Hyperphagia following intraventricular p-chlorophenylalanine-, leucine- or tryptophan-methyl esters: Lack of correlation with whole brain serotonin levels. *Pharmacology Biochemistry & Behavior*, 10, 951-955.
- Hernandez, L. & Hoebel, B.G. (1979). Parallel increase of feeding and hypothalamic self-stimulation after midbrain 6-hydroxydopamine, but no correlation of hyperphagia with norepinephrine depletion. In E. Usdin, I.J. Kopin & J. Barchas (Eds.), *Catecholamines: Basic and Clinical Frontiers* (Vol. 2, pp. 1735-1737). New York: Pergamon Press.
- *Hoebel, B.G. (1980). Feeding. In C. Cottman & J. McGaugh (Eds.), *Behavioral Neuroscience* (pp. 576-608). New York: Academic Press.

- Hoebel, B.G., Hernandez, L., Monaco, A.P., & Miller, W.C. (1981). Amphetamine-induced overeating and overweight in rats. *Life Sciences*, 28, 77-82.
- *Hoebel, B.G. & Leibowitz, S.F. (1981). Brain monoamines in the regulation of self-stimulation, feeding and body weight. In H. Weiner, M.A. Hofer & A.J. Stunkard (Eds.), *Brain, Behavior & Bodily Disease*, Association for Research in Nervous and Mental Disease (pp. 103-142). New York: Raven Press.
- Monaco, A.P., Hernandez, L., & Hoebel, B.G. (1981). Nucleus accumbens: Site of amphetamine self-injection, comparison with lateral ventricle. In R.B. Chronister & J. DeFrance (Eds.), *The Neurobiology of the Nucleus Accumbens* (pp. 338-342). Brunswick, ME: Haer Institute.
- Hernandez, L. & Hoebel, B.G. (1982). Overeating after midbrain 6-hydroxydopamine: Prevention by central injection of selective reuptake blockers. *Brain Research*, 245, 333-343.
- McLean, S. & Hoebel, B.G. (1982). Opiate and norepinephrine-induced feeding from the paraventricular nucleus of the hypothalamus are dissociable. *Life Sciences*, 31, 2379-2382.
- *Hoebel, B.G. (1982). The neural and chemical basis of reward: New discoveries and theories in brain control of feeding, mating, aggression, self-stimulation and self-injection. *Journal of Social and Biological Structures*, 5, 397-408.
- Also published in M. Gruter & M. Reh binder (Eds.), (1983). *Der beitrag der Biologie zu Fragen von recht und Ethik* (pp. 87-109). Berlin: Duncker & Humblot.
- *Hoebel, B.G., Hernandez, L., McLean, S., Stanley, B.G., Aulisi, E.F., Glimcher, P., & Margolin, D. (1982). Catecholamines, enkephalin and neurotensin in feeding and reward. In B.G. Hoebel & D. Novin (Eds.), *The Neural Basis of Feeding and Reward* (pp. 465-478). Brunswick, ME: Haer Institute.
- Hoebel, B.G., Monaco, A.P., Hernandez, L., Aulisi, E.F., Stanley, B.G., & Lenard, L. (1983). Self-injection of amphetamine directly into the brain. *Psychopharmacology*, 81, 158-163.
- McLean, S. & Hoebel, B.G. (1983). Feeding induced by opiates injected into the paraventricular hypothalamus. *Peptides*, 4, 287-292.
- Stanley, B.G., Hoebel, B.G., & Leibowitz, S.F. (1983). Neurotensin: Effects of hypothalamic and intravenous injections on eating and drinking in rats. *Peptides*, 4, 493-500.
- Hernandez, L., Parada, M., & Hoebel, B.G. (1983). Amphetamine-induced hyperphagia and obesity caused by intraventricular or lateral hypothalamic injections in rats. *Journal of Pharmacology and Experimental Therapeutics*, 227, 524-530.
- Glimcher, P., Margolin, D., & Hoebel, B.G. (1983). Rewarding effects of neurotensin in the brain. In C. B. Nemeroff & A.J. Prange, Jr. (Eds.), *Neurotensin, A Brain and Gastrointestinal Peptide* (Vol. 400, pp.422-424). Annals of the New York Academy of Sciences.
- Stanley, B.G., Eppel, N., & Hoebel, B.G. (1983). Neurotensin injected in the paraventricular hypothalamus suppresses feeding in rats. In C.B. Nemeroff, A.J. Prange, Jr. (Eds.), *Neurotensin, A Brain and Gastrointestinal Peptide*. Annals of the New York Academy of Sciences, 400, 425-427.
- Ahlskog, J.E, Randall, P.K., Hernandez, L., & Hoebel, B.G. (1984). Diminished amphetamine anorexia and enhanced fenfluramine anorexia after midbrain 6-hydroxydopamine. *Psychopharmacology*, 82, 118-121.
- Glimcher, P.G., Margolin, D.H., Giovino, A.A., & Hoebel, B.G. (1984). Neurotensin: A new "reward peptide". *Brain Research*, 291, 119-124.
- Glimcher, P.G., Giovino, A.A., Margolin, D.H., & Hoebel, B.G. (1984). Endogenous opiate reward induced by an enkephalinase inhibitor, thiorphan, injected into the ventral midbrain. *Behavioral Neuroscience*, 98, 262-268.
- *Hoebel, B.G. (1984). Neurotransmitters in the control of feeding and its rewards: Monoamines, opiates and brain-gut peptides. In A.J. Stunkard & E. Stellar (Eds.), *Eating and Its Disorders*, Association for Research in Nervous and Mental Disease (pp. 15-38). New York: Raven Press.
- *Hoebel, B.G. (1985). Brain neurotransmitters in food and drug reward. *American Journal of Clinical Nutrition*, 42, 1133-1150.

- Stanley, B.G., Leibowitz, S.F., Eppel, N., St.-Pierre, S., & Hoebel, B.G. (1985) Suppression of norepinephrine-elicited feeding by neurotensin: Evidence for behavioral anatomical and pharmacological specificity. *Brain Research*, 343, 297-304.
- Hoebel, B.G. (1985). Integrative peptides. *Brain Research Bulletin*, 14, 525-528.
- Hernandez, L., Stanley, B.G., & Hoebel, B.G. A small, removable microdialysis probe. *Life Sciences*, 1986, 39, 2629-2637.
- Glimcher, P.G., Giovino, A.A., & Hoebel, B.G. (1987). Neurotensin self-injection in the ventral tegmental area. *Brain Research*, 403, 147-150.
- Hernandez, L., Lee, F., & Hoebel, B.G. (1987). Simultaneous microdialysis and amphetamine infusion in the nucleus accumbens and striatum of freely moving rats: Increase in extracellular dopamine and serotonin. *Brain Research Bulletin*, 19, 623-628.
- Hernandez, L. & Hoebel, B.G. (1988). Food reward and cocaine increase extracellular dopamine in the nucleus accumbens as measured by microdialysis. *Life Sciences*, 42, 1705-1712.
- Hernandez, L., Auerbach, S., & Hoebel, B.G. (1988). Phencyclidine (PCP) injected in the nucleus accumbens increases extracellular dopamine and serotonin as measured by microdialysis. *Life Sciences*, 42, 1713-1723.
- Egawa, M., Hoebel, B.G., & Stone, E.A. (1988). Use of microdialysis to measure brain noradrenergic receptor function *in vivo*. *Brain Research*, 458, 303-308.
- Hernandez, L. & Hoebel, B.G. (1988). Feeding and hypothalamic stimulation increase dopamine turnover in the accumbens. *Physiology & Behavior*, 44, 599-606.
- Parada, M., Hernandez, L., Schwartz, D., & Hoebel, B.G. (1988). Hypothalamic infusion of amphetamine increases extracellular serotonin, dopamine and norepinephrine. *Physiology & Behavior*, 44, 607-610.
- Parada, M.A., Hernandez, L., & Hoebel, B.G. (1988). Sulpiride injections in the lateral hypothalamus induce feeding and drinking in rats. *Pharmacology Biochemistry & Behavior*, 30, 917-923.
- Hoebel, B.G., Hernandez, L., McClelland, R.C. & Schwartz, D.H. (1988). Dexfenfluramine and feeding reward. *Clinical Neuropharmacology*, 11(Suppl. 1), S72-S85.
- *Hoebel, B.G. (1988). Neuroscience and motivation: Pathways and peptides that define motivation. In R.C. Atkinson, R.J HerrNSTein, G. Lindzey & R.D. Luce (Eds.), *Stevens' Handbook of Experimental Psychology, 2nd Edition,: Perception and Motivation* (Vol. 1, pp. 547-625). New York: John Wiley & Sons.
- Schwartz, D.H., Dorfman, D.B., Hernandez, L. & Hoebel, B.G. (1988). Cholecystokinin: 1. CCK antagonists in the PVN induce feeding, 2. Effects of CCK in the nucleus accumbens on extracellular dopamine turnover. In R. Y. Wang & R. Schoenfeld (Eds.), *Neurology and Neurobiology, Cholecystokinin Antagonists* (Vol. 47, pp. 285-305). New York: Alan R. Liss.
- *Hernandez, L., Lee, F., & Hoebel, B.G. (1988). Microdialysis in the mesolimbic system: During feeding behavior or treatment with amphetamine. In P.W. Kalivas & C.B. Nemeroff (Eds.), *The Mesocorticolimbic Dopamine System* (Vol. 537, pp. 508-511). Annals of the New York Academy of Sciences.
- Mifsud, J.-C., Hernandez, L., & Hoebel, B.G. (1989). Nicotine infused into the nucleus accumbens increases synaptic dopamine as measured by *in vivo* microdialysis. *Brain Research*, 478, 365-367.
- Schwartz, D.H., McClane, S., Hernandez, L., & Hoebel, B.G. (1989). Feeding increases extracellular serotonin in the lateral hypothalamus of the rat as measured by microdialysis. *Brain Research*, 479, 349-354.
- Hernandez, L. & Hoebel, B.G. (1989). Food intake and lateral hypothalamic self-stimulation covary after medial hypothalamic lesions or ventral midbrain 6-hydroxydopamine injections that cause obesity. *Behavioral Neuroscience*, 103, 412-422.
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- Lee, F., Stafford, I., & Hoebel, B.G. (1989). Similarities between the stimulus properties of phenylpropanolamine and amphetamine. *Psychopharmacology*, 97, 410-412.
- McClelland, R.C., Sarfaty, T., Hernandez, L., & Hoebel, B.G. (1989). The appetite suppressant, d-fenfluramine, decreases self-stimulation at a feeding site in the lateral hypothalamus. *Pharmacology Biochemistry & Behavior*, 32, 411-414.
- Stanley, B.G., Schwartz, D.H., Hernandez, L., Hoebel, B.G., & Leibowitz, S.F. (1989). Patterns of extracellular norepinephrine in the paraventricular hypothalamus: Relationship to circadian rhythm and deprivation-induced eating behavior. *Life Sciences*, 45, 275-282.
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- Schneider, E. S, Rada, P., Darby R., Leibowitz, S. F, & Hoebel, B. G. (2006). Hypothalamic orexin preferentially stimulates alcohol intake over food and water in rats. 29th Annual Meeting of the Research Society on Alcoholism, *Alcoholism: Experimental and Clinical Research*, Suppl. Vol. 30, 129A.

- Chang, G-Q, Karatayev, O, Ahsan R, Avena, NM, Hoebel, BG, & Leibowitz, SF. (2006). Effect of ethanol on opioid peptides in the hypothalamus: Relation to circulating triglycerides. 29th Annual Meeting of the Research Society on Alcoholism, *Alcoholism: Experimental and Clinical Research*, Suppl. Vol. 30, 134A.
- Avena NM, Berner L, Lee C, Hoebel BG (2006) Rats with intermittent access to a sweet-fat diet self-restrict chow intake and dysregulate their body weight: implications for binge-eating associated with obesity, North American Association for the Study of Obesity (NASSO)
- Bocarsly M, Avena NM, Lee C, Rada P, Hoebel BG (2006) Food deprivation after sucrose bingeing results in anxiety and an imbalance in dopamine and acetylcholine in the nucleus accumbens. Society for Neuroscience. Program #62.13 Abstract Viewer, Atlanta, GA.
- Schneider ER, Rada P, Lee CY, Darby R, Leibowitz SF, Hoebel BG (2006) Differential effects of orexin injection on alcohol intake in the hypothalamus, accumbens and ventral tegmental area. Society for Neuroscience. Program #7 Abstract Viewer, Atlanta, GA
- Avena NM, Rada P, Hoebel BG. (2006). Underweight compared with normal-weight rats release more dopamine in the nucleus accumbens shell when bingeing daily on sugar. *Society for the Study of Ingestive Behavior (SSIB)*. *Appetite* 46: 340.
- Leibowitz SF, Karatayev O, Gaysinskaya V, Rada P, Lewis, M, Avena N, Carrillo C, Hoebel BG (2006) Galanin and opioid peptides in relation to alcohol intake and dietary fat: Possible positive feedback mechanisms. *American College of Neuropsychopharmacology Abstracts*.
- Avena NM, Rada P, Hoebel BG (2006) Rats that binge on sugar each day give themselves a burst of daily dopamine, and when sham feeding, acetylcholine is not released in the accumbens: a model of bulimia. *Abstracts of the 26th European Winter Conference on Brain Research*, Villars, Switzerland.
- Hoebel BG, Avena NM, Bocarsly M, Rada P (2006) Eating for dopamine: effects of learning, weight loss, bingeing and purging. *Society for the Study of Ingestive Behavior Annual Meeting*. *Appetite*. 46, 360.
- Avena NM, Rada P, Hoebel BG (2006). Behavioral and neurochemical evidence of sugar dependence in rats. *American Psychological Association*. Division 50 and 28.
- Chang G, Karatayev O, Ahsan R, Avena, NM, Lee C, Lewis MJ, Hoebel BG, Leibowitz SF. (2006) Effect of ethanol on hypothalamic opioid peptides, enkephalin and dynorphin: relationship to circulating triglycerides. Program No. 456.1. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience.
- Hoebel BG, Avena NM, Bocarsly M, Rada P (2006) Eating for dopamine: effects of learning, weight loss, bingeing and purging. *Society for the Study of Ingestive Behavior Annual Meeting*. *Appetite* 46, 360.
- Hoebel, B. G., Avena, N. M., & Rada, P. (2006). Microdialysis in the study of sugar addiction. In: *Monitoring Molecules in Neuroscience*. G. Di Chiara, E. Carboni, V. Valentina, E. Acquas, V. Bassareo and C. Cadoni (Eds). *Proceedings of the 11th International Conference on In Vivo Methods*. University of Cagliari, Italy, pp 55-57.
- Schneider E. S, Rada P., Darby R., Leibowitz S. F., Hoebel B.G. (2006). Hypothalamic orexin preferentially stimulates alcohol intake over food and water in rats. 29th Annual Meeting of the Research Society on Alcoholism, *Alcoholism: Clinical and Experimental Research*, Suppl. Vol. 30, 129A.
- Schneider E. R, Rada P., Lee C. Y., Darby R., Leibowitz S.F., Hoebel, B.G. (2006). Differential effects of orexin injection on alcohol intake in the hypothalamus, accumbens and ventral tegmental area. 2006 Abstract Viewer, Program No. 7, *Society for Neuroscience*.
- Hoebel, B. G., Avena, N. M., & Rada, P. (2006). Microdialysis in the study of sugar addiction. In: *Monitoring Molecules in Neuroscience*. G. Di Chiara, E. Carboni, V. Valentina, E. Acquas, V.

- Bassareo and C. Cadoni (Eds). *Proceedings of the 11th International Conference on In Vivo Methods*. University of Cagliari, Italy, pp 55-57
- Hoebel, B.G. (2007). Eating for dopamine: An animal model of binge eating and bulimia. *Academy for Eating Disorders and International Conference on Eating Disorders*.
- Schneider, E. R., Darby, R., Leibowitz, S. F., & Hoebel, B. G. (2007). Orexin, but not ghrelin, injected in the lateral hypothalamus increases alcohol intake in alcohol-drinking rats. *30th Annual Scientific Meeting of the Research Society on Alcoholism*.
- Jessica R. Barson¹, Eve R. Schneider¹, Ryan D. Darby¹, Sarah F. Leibowitz², Barry L. Jacobs¹, and Bartley G. Hoebel¹ Ethanol intake is stimulated by injection of morphine in the paraventricular nucleus and inhibited by local naloxone. *Society for Neuroscience 2007*.
- Schneider E.S.¹, Rada, P.¹, Darby R.¹, Leibowitz S.F.², Hoebel, B.G.¹ (2007) Orexin injected in the hypothalamus stimulates alcohol intake instead of food intake, after rats have become drinkers. Abstracts of the 27th *European Winter Conference on Brain Research*, Villars, Switzerland.
- Avena, N. M., Bocarsly, M., Rada, P., Kim, A., & Hoebel, B. G. (2007) Sugar withdrawal induced by fasting in rats. *Society for the Study of Ingestive Behavior*. Steamboat Springs, Colorado
- Avena, NM, Rada, P, Hoebel, BG (2007). Sugar-bingeing rats show changes in behavior and brain chemistry suggesting dependence. American College of Neuropsychopharmacology.
- Hoebel, BG, Rada, P, Avena, NM (2007). Underweight rats have enhanced dopamine release and blunted acetylcholine response in the nucleus accumbens while bingeing on sucrose. Program No. 629.6 Abstract Viewer/Itinerary Planner. San Diego, CA: Society for Neuroscience.
- Avena, NM, Rada, P, Hoebel, BG (2007) Can sugar be "addictive"? Keystone Symposium: Neurobiology of Addiction.
- Avena, NM, Rada, P, Hoebel, BG (2007) Can sugar be "addictive"? Keystone Symposium: Neurobiology of Addiction.
- Barbarich-Marsteller N C, Taksse LF, Fornal CA, Bocarsly ME, Arner CN, Walsh BT, Hoebel BG, Jacobs BL (2008) Hippocampal cell proliferation is reduced in adolescent female activity-based anorexia. *Society for Neuroscience*.
- Ashenurst, J., Hernandez, L., & Hoebel, B. G. (2008). Peptides for water and salt reward: 1) angiotensin causes dopamine release 2) salt abstinence causes an opioid-based "deprivation effect". *28th European Winter Conference on Brain Research*. Les Arcs, France.
- J.R. Barson, A.J. Carr, J.E. Soun, S.F. Leibowitz, B.G. Hoebel (2008). Ethanol intake is stimulated by injection of morphine in the paraventricular nucleus and nucleus accumbens and is inhibited by local naloxone. *Research Society on Alcoholism*, Washington, DC.
- Barbarich-Marsteller N C, Taksse LF, Fornal CA, Bocarsly ME, Arner CN, Walsh BT, Hoebel BG, Jacobs BL (2008). Activity-based anorexia reduced hippocampal cell proliferation in adolescent female rats. *Eating Disorders Research Society* Montreal, Canada.
- Hoebel BG (2008). Evidence for sugar addiction: An animal model of bingeing, withdrawal, and craving. *Experimental Biology*. San Diego, CA.
- Hoebel BG, Avena NM, Rada P (2008). The nucleus accumbens as integrator of feeding and satiety information in the control of motivation to eat. *Society for the Study of Ingestive Behavior*. Paris, France. *Appetite* 51: 373.
- Rada V, Avena NM, Karatayev O, Hoebel BG, Leibowitz SF (2008). Accumbens dopamine is stimulated by dietary fat and also by injection of lipid emulsion that raises circulating triglycerides: Possible role in fat-induced overeating. *Society for Neuroscience*.

MAJOR INVITATIONS

Eastern Psychological Association, *Psi Chi Address*, 1963

New York Academy of Sciences, *Address and Chapter*, 1969, 1978, 1983
Annual Review of Physiology, Chapter, 1971
The Human Energy Crisis, Symposium on Obesity, Ciba-Geigy, Houston, Texas, *Address*, 1973
Nebraska Symposium on Motivation, Address and Chapter, 1974
American Psychological Association, *Fellows Address*, 1974
Conference on *Hunger: Basic Mechanisms and Clinical Implications*, Los Angeles, California, *Address and Chapter*, 1975
International Conference on the Regulation of Food and Fluid Intake, *Address*, Tokyo, 1975
Brain Stimulation Reward, Address and Chapter, Beerse, Belgium, 1976
Handbook of Psychopharmacology, Chapter, 1977
Annual Review of Pharmacology and Toxicology, Chapter, 1977
Nerves and the Gut, Bryn Mawr, Pennsylvania, *Address and Chapter*, 1977
Psychiatric Clinics of North America, Chapter, 1978
Current Studies of Hypothalamic Function, Chapter, 1978
Kroc Foundation Conference, Hypothalamic-Pancreatic Interactions, Santa Ines, California, 1977;
Conference on Obesity, *Address and Chapter*, 1979
Symphagium Benjamin Franklin, La Napoule, France, *Speech*, 1979, 1989
The Neurobiology of the Nucleus Accumbens, Brunswick, Maine, *Address and Chapter*, 1980
Obesity, Chapter, 1980
Association for Research on Nervous and Mental Disease, Symposium on *Brain, Behavior and Bodily Disease, Address and Chapter*, 1981
Symposium on Law and Behavioral Research, Monterey Dunes, California, *Address and Chapter*, 1981
Society for Neuroscience Symposium on the Neurobiology of Feeding, *Address*, 1982
Society for Neuroscience Satellite Conference on the *Neural Basis of Feeding and Reward* (Organizer), *Address and Chapter*, Los Angeles, California, 1982
Association for Research on Nervous and Mental Disease, Symposium on *Eating and Its Disorders, Address and Chapter*, 1981 and 1984
Campbell Soup Company Symposium on Food, Nutrition and Health, *Address and Chapter*, Princeton, *Address and Chapter*, 1983 xxx
Collegium Internationale Neuro-psychopharmacologium, Symposium on Nutrition and the Central Nervous System, Florence, Italy, *Address*, 1984
The Neural and Metabolic Bases of Feeding, Napa Valley, California, *Address and Chapter*, 1984
Sir Mortimer Davis-Jewish Hospital, Clinical Day Symposium on Obesity, Montreal, *Address*, 1984
Society for Neuroscience Symposium, Functions of Cholecystokinin in the Brain, Dallas, Texas, *Address*, 1985
American Pain Society, Dallas, Texas, *Address*, 1985
Scripps Clinic and Research Foundation, Symposium on Eating Disorders: New Directions in Diagnosis and Treatment, La Jolla, California, *Address*, 1985
Collegium Internationale Neuropsychopharmacologium, Symposium on Brain and Nutrition, San Juan, *Address and Chapter*, 1986
Eastern Psychological Association, Symposium on Opioids in Feeding (*Organizer*), New York, 1986
Eli Lilly Conference on Obesity, Indianapolis, *Address*, 1987
Eastern Psychological Association, Arlington, Virginia, *Address*, 1987
Federation of American Societies for Experimental Biology (FASEB), Summer Research Conference on Energy Regulation, Saxtons River, Vermont, *Address*, 1987
Workshop on Cholecystokinin Antagonists, Cold Spring Harbor, *Address and Chapter*, 1987
Society for Neuroscience, Satellite Symposium on Microdialysis and Behavior (*Organizer and Speaker*), New Orleans, 1987

European Winter Conference on Brain Research, Symposium on Microdialysis (*Organizer and speaker*), Tignes, France, 1988

Stevens' Handbook of Experimental Psychology, Chapter, 1988

Winter Conference on Brain Research, Workshop on In Vivo Microdialysis and Voltammetry for Measuring Brain Neurotransmitters (*Organizer and Speaker*), Steamboat Springs, Colorado, 1988

Eli Lilly Symposium on Hypertension and Obesity, *Address*, Indianapolis, 1988

Cholecystokinin Antagonists, Chapter, 1988

Society for Stimulus Properties of Drugs, Satellite Symposium of the Society for Neuroscience, Toronto, Canada, *Speech*, 1988

North American Association for the Study of Obesity, Banff, Canada, *Speech*, 1988

Society for the Study of Ingestive Behavior, Satellite Symposium of the Society for Neuroscience, *Speech*, Toronto, Canada, 1988

Wyeth/Ayerst Pharmaceutical Corp., Seminar, Monmouth Junction, New Jersey, 1988

New York Academy of Sciences, Conference on the Psychobiology of Human Eating Disorders, *Speech and Chapter*, New York, New York, 1989

The Psychobiology of Human Eating Disorders: Preclinical and Clinical Perspectives, Chapter, 1989

Delaware Society for Neuroscience, *Address*, Wilmington, Delaware, 1989

Princeton/Cyanamid Conference, *Presentation*, Princeton, New Jersey, 1989

International Conference on Regulation of Food and Fluid Intake, *Plenary Lecture*, Paris, France, 1989

American Psychological Association, *Address*, New Orleans, Louisiana, 1989

National Institute on Drug Abuse, Technical Review Session, *Presentation*, Bethesda, Maryland, 1989

Environmental Scientific Apparatus Corporation, Satellite Symposium at the Society for Neuroscience, *Address*, Phoenix, Arizona, 1989

UCLA Symposium on Molecular and Cellular Biology, *Obesity: Towards a Molecular Approach, Address and Chapter*, Keystone, Colorado, 1989

Campbell Soup Company, Conference on Salt Appetite, Presentation, Camden, New Jersey, *Speaker*, 1989 and 1990

Society for Neuroscience, Satellite Conference on *In Vivo* Neurochemistry and Addiction (*Organizer and Speaker*), Phoenix, 1989

Pittsburgh Conference, Symposium on Applications of Microdialysis in Biological Systems (*Organizer*), New York, 1990

European Behavioural Pharmacology Society, Symposium on Microdialysis and Behavior (*Organizer*), Amsterdam, 1990

Addictive States Minisymposium, Uniformed Services University, *Speaker*, Bethesda, Maryland, 1990

Symposium on Quantitative Analysis Behavior, The Nature of Reinforcement, *Speaker*, Cambridge, Massachusetts, 1990

Obesity: Towards a Molecular Approach, Chapter, 1990

University of Groningen, *Colloquium Speaker*, The Netherlands, 1990

American Psychological Association, Division 3, *Address*, Boston, Massachusetts, 1990

IEEE Symposium on Intelligent Control, *Address and Chapter*, Philadelphia, Pennsylvania, 1990

Bristol-Myers/Squibb Conference on *The Biology of Feast and Famine: Relevance to Feeding Disorders, Address and Chapter*, Toronto, Canada, 1990

European Behavioral Pharmacology Society, *Address*, Amsterdam, The Netherlands, 1990

International Conference on Obesity: Satellite on *Neural and Metabolic Control of Food and Water Intake, Address and Chapter*. Kobe, Japan, 1990

Microdialysis in the Neurosciences, Chapter, 1991

Eastern Psychological Association, Symposium on Brain Neurotransmitters Controlling Eating Patterns and Food Reward, *Speaker*, New York, New York, 1991

North American Society for the Study of Obesity, *Address*, Sacramento, California, 1991
Honorary Degree Lecture, Louvain La Neuve, Belgium, 1991
 Monitoring Molecules, *Address*, Amsterdam, The Netherlands, 1991
 International Study Group Investigating Drugs as Reinforcers, *Address*, Palm Beach, Florida, 1991
 University of Minnesota, Medical School Neurobehavioral Pharmacology Training Grant, *Address*,
 Minneapolis, Minnesota, 1991
 European Winter Conference on Brain Research, *Symposium Speaker*, La Plagne, France, 1992
 SUNY-Buffalo, Department of Psychology, *Colloquium Speaker*, Buffalo, New York, 1992
The Neurobiology of Drug and Alcohol Addiction, *Chapter*, 1992
 "Science on Saturdays" Lecture Series, *Invited Lecturer* to high school students and teachers, Princeton
 University Plasma Physics Laboratory, Princeton, New Jersey, 1992
Neurobiological Approaches to Brain-Behavior Interaction, *Chapter*, 1992
 Colloquium Internationale Neuropsychopharmacology, *Symposium Speaker*, Nice, France, 1992
 New York University Hospital, *Colloquium Speaker*, New York, 1992
Microdialysis in Brain and Other Tissues, *Chapter*, 1992
 International Conference on Physiology of Food and Fluid Intake, *Address*, Oxford England, 1993
 University of Washington, Department of Psychology, *Colloquium Speaker*, Seattle, Washington, 1993
Obesity: Theory and Therapy, *Chapter*, 1993
 1st International Congress on Hormones, Brain and Neuropsychopharmacology, *Symposium Speaker*,
 Rhodes, Greece, 1993
 Workshop on Functional Organization of the CNS: Neural Circuitry and Systems, *Workshop Speaker*,
 National Institute of Mental Health, Rockville, Maryland, 1993
 American Psychological Association; Division 6: Physiological and Comparative Psychology, *Address*, Los
 Angeles, California, 1994
 International Conference on Obesity, *Symposium Speaker*, Toronto, Canada, 1994
Models of Neuropeptide Action, *Chapter*, 1994
 International Conference on Obesity, Satellite Conference on Pharmacologic Control of Obesity, *Address*,
 Montreal, Canada, 1994
 Eastern Psychological Association, Recent Advances in Ingestive Behavior Research, *Symposium Speaker*,
 Providence, Rhode Island, 1994
 Pharmacologic Treatment of Obesity. Satellite Symposium to the 7th International Congress on Obesity,
Speaker, Quebec, Canada, 1994
 Pennington Biomedical Research, Molecular and Genetic Aspects of Obesity, *Address*, Baton Rouge,
 Louisiana, 1994
 Eastern Psychological Association, Invited Symposium, The Neural Basis of Gluttony, Love and Pleasure,
 "The Neural Basis of Positive and Negative Reinforcement", *Symposium Speaker*, Providence, Rhode
 Island, 1994
 American Psychological Association, Division 6 *Presidential Address*, New York, New York, 1995
 NASSO-SSIB Joint Conference, *Address*, Baton Rouge, Louisiana, 1995
 VI Symposium Benjamin Franklin-Lafayette, *Speaker*, La Napoule, France, 1996
Molecular and Genetic Aspects of Obesity, *Chapter*, 1996
 International Behavioral Neuroscience Society, *Keynote Address*, Cancun Mexico, 1996
 Society for the Study of Ingestive Behavior, *Presidential Address*, Banff, Canada, 1996
Progress in Obesity Research, *Chapter*, 1996
 Conference on Understanding Quality of Life: Scientific Perspectives on Enjoyment and Suffering,
Speaker, Princeton, New Jersey, 1996
 250th Anniversary Conference on The Brain: From Molecule to Mind, Princeton, *Speaker*, New Jersey,
 1997

Winter Conference on Brain Research, Symposium on Addictive Features of Fat and Sugar: Galanin, Opioids and Dopamine, "Addictive Features of Fat and Sugar: Galanin, Opioids and Dopamine", *Organizer and Speaker*, Keystone, Colorado, 1998

Handbook of Obesity, "The Neuroscience of Obesity", *Chapter*, 1998

Eastern Psychological Association, *Presidential Address*, Boston, Massachusetts, 1998

55-Plus. "Neural Basis of Drug Addiction", *Speaker*", Princeton, New Jersey, 1998

Behavioural Pharmacology Society, Symposium on Feeding, Self-Stimulation and Drug Abuse: Reward Interactions, *Organizer and Speaker*. Boston, 1999

Well-being: Foundations of Hedonic Psychology, *Chapter*, 1999

University of Delaware, Neuroscience Series, *Colloquium Speaker*, Newark, Delaware, 1999

Eastern Psychological Association, Faculty in Neuroscience (FUN). "How Undergraduate Teaching Labs in Neuroscience Can Lead to Published Research", *Speaker*, Baltimore, Maryland, 2000

Seminar on Appetitive Behavior, "Sugar Addiction". *Speaker*, Columbia University, New York, 2000.

American Psychological Society, "Addiction to Sugar: Behavioral and Neurochemical Evidence," *Speaker*, Toronto, Canada, June 2001

North American Association for the Study of Obesity, "Acetylcholine in the Accumbens is Involved in Behavioral Depression and Sugar Withdrawal", *Speaker*, Quebec City, PA, Canada, October, 2001

Sanofi-Synthelabo Research, Obesity: A Multidisciplinary Approach to Successful Weight Reduction and Maintenance, *Speaker*, "The neuroscience of obesity", Washington, D. C., 2001

The Sugar Project. "Sugar addiction", *Keynote Speaker*, University of Minnesota, Minneapolis, MN, 2001

Wyeth-Ayerst Research, *Speaker*, Princeton NJ, 2001

Academy for Eating Disorders 2002 International Conference on Eating Disorders and Clinical Teaching Day. "Binge Eating Disorder (BED) from Laboratory to Clinic", Boston, MA, April 2002

Workshop: Dietary Fat and Energy Balance "Signs of sugar and fat addiction in rats", *Speaker*, Ascona, Switzerland, 2003

The 18th Annual Statewide Environmental Education Conference, *Speaker*, "Help Design the Steamboat Floating Classroom", presented with Prof. David Smith, Rider University, Lawrenceville, NJ, 2003.

Wyeth Research, Inc. Effect of WAY-161333 on acetylcholine release in the hippocampus. *Speaker*, Princeton, NJ, 2003

Society for the Study of Ingestive Behavior (SSIB). "Daily sugar bingeing enhances accumbens dopamine release repeatedly, like a drug of abuse, and sham bingeing eliminates the acetylcholine satiety signal." *Symposium speech*. Cincinnati, OH. 2004

The College of New Jersey, "Sugar Addiction: behavior and neuroscience". *Colloquium speaker*. Lawrenceville, NJ. 2004

American Psychiatric Association. "Sugar Addiction", *Symposium Speaker*, New York, NY, 2004

Temple University Medical School. "Sugar Addiction: behavior and neuroscience". *Colloquium speaker*. Philadelphia, PA, 2004

Columbia University Appetitive Seminar, "The Evidence for Sugar Addiction XXX", Columbia University, New York, NY, 2004

Western Psychological Association "Sugar addiction: behavior and neuroscience". *American Psychological Association Distinguished Scientist Lecture*, Portland OR, 2005

American Psychiatric Association, "An animal model of addiction to sugar", *Speaker* in symposium on Carbohydrate Craving and Mood Disorders. Atlanta, GA, 2005

National Institute on Drug Abuse (NIDA) Intramural Research Program Seminar Series. "Sugar Bingeing Withdrawal and Relapse: Is This a Model of Substance Abuse? Dependency? Addiction? *Invited Speaker*, Baltimore, MD. 2005.

Pennsylvania State University, Dept. of Nutrition. "Evidence for Sugar Addiction in Rats", *Colloquium speaker*, State College, PA, 2005

American Psychological Association, "Sugar addiction: behavior and neuroscience". *Distinguished Scientist Lecture*, Western Psychological Association, Portland OR, 2006.

American College of Neuropsychopharmacology (ANCP) "Sugar Bingeing Produces Effects on Opioid and Dopamine Systems: Possible Roles in Drug Abuse", *Symposium speaker*, Waikoloa, Hawaii, 2005.

Monitoring Molecules in Neuroscience. "Microdialysis in the Study of Sugar Addiction", 11th International Conference on In Vivo Methods. *Invited Speaker*, Sardinia, Italy, 2006

NIDA Series on Substance Abuse: Research and Clinical Practice. Symposium on Commonalities Between Addiction and Obesity. American Psychological Association (APA), "Opiate-like Effects of Sugar", *Invited Speaker*", New Orleans 2006

Weill Medical College of Cornell University, "Sugar addiction and obesity", *Irving Weinstein Visiting Lectureship in Nutrition and Disease Prevention*. NYC, NY, 2006

Purdue University, Colloquium Series on Ingestion and Addiction. "The Evidence for Sugar Addiction: An Animal Model of Bingeing, Withdrawal and Craving", *Invited Speaker*, W. Lafayette, IN, 2006

International Life Sciences Institute (ILSI), North America, "Activation of the Brain Reward System by Sugar and Salt". Technical Committee on Sodium, *Invited Speaker*, Washington, DC, 2006.

Alliance for New Jersey Environmental Education (ANJEE Annual Conference). "Teaching Environmental Science on the Steamboat Floating Classroom", *Workshop speaker*, Rider University, 2006

Johnson and Johnson/Princeton Neuroscience Meeting. "Sugar Addiction and its Relation to Depression, Eating Disorders and Obesity", *Princeton Faculty Speaker*, Princeton, NJ. 2006

International conference on Eating Disorders. "The Evidence for Sugar Addiction", *Invited Speaker*, The Academy for Eating Disorders, Baltimore, MD, 2007

Rudd Center for Food Policy and Obesity. "The Evidence for Sugar Addiction", *Invited Speaker*, Yale University, New Haven CN, 2007

Brookhaven National Laboratories. "Sugar Addiction: Behavioral and Neurochemical Evidence in Rats", *Invited Speaker*, Medical Department, Brookhaven, LI, NY, 2007

Experimental Biology (American Federation of Societies for Experimental Biology) Evidence for sugar addiction: An animal model of bingeing, withdrawal, and craving. *Invited Speaker*, San Diego, CA.

American College for Neuropsychopharmacology. Will the effects of sugar bingeing in rats satisfy a current or future (DSM-5) definition of addiction? *Invited Speaker*, Scottsdale, AZ, 2008

EXTRACURRICULAR ACTIVITIES

Brain Research Instruments Co., Sole proprietor, 1962-present
(Research consulting and apparatus)

Princeton Peace Center, Founder and Manager, 1969-1973

Unitarian-Universalist Congregation of Princeton, Vice President for Social Concerns, 1981
(Spokesman: Rule revision issues at Mercer County Jail)

Little Valley Farm, Rocky Hill, NJ, Owner and tree farmer, 1976-present
(2000 evergreens. Farm status and public access preserved forever)

Great Eastern Balloon Association, Hot air balloon pilot, 1976-present
(FAA Commercial License).

Hot air balloon builder, 1990
(FAA approved, experimental, lighter-than-air aircraft)

4-H, Somerset County, Club Leader, 1978

Cub Scouts, Mercer County, Den Leader, 1980

Boy Scout Merit Badge Counselor, 2006-present

Steam Calliope, Builder and operator, 1990-present

(New Jersey Boiler Operator's License)

The Rockingham Association, Board of Trustees, 1999-2007

(Preservation of the house and farm where George and Martha Washington lived during the Continental Congress in Princeton, a NJ State Historic Site)

Delaware River Steamboat Floating Classroom, Inc., Founder and President, 1999-present

(Non-profit organization that rebuilt a replica of 1880, shallow-river, stern wheel steamboat. US Coast Guard certified for 49 passengers. We teach clean-water ecology, physics and U.S. history for elementary and high school field trips and adult tours.

(U.S. Merchant Marine Engineer's License)