

CURRICULUM VITAE

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EDUCATION: B.A., Brooklyn College
M.A., Columbia University
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HONORS:

2012. The Estabrook Distinguished Research Scientist Award, Kessler Foundation.
2011, B.F. Skinner Lecture, Assoc. for Behavioral Analysis International (ABAI)
President – Section J (Psychology), AAAS, 2009
CI therapy named by Soc. Neuroscience as 1 of 10 most exciting current lines of research in neuroscience (2005)
Distinguished Scientific Award for the Applications of Psychology of the American Psychological Association (2004)
CI therapy named by Soc. Neuroscience as 1 of top 10 Translational Neuroscience Accomplishments of 20th century (2003)
Neal Miller Distinguished Research Lecture, American Psychological Association (2003)
Leonard Diller Award, Division of Rehabilitation Psychology American Psychological Association (2001)
Humboldt Fellow, Germany (2000 - 2005)
William James Award, Amer. Psychol. Soc. (1997)
Ireland Prize for Scholarly Distinction, Annual Award at Univ. Alabama at Birmingham (1997)
Distinguished Scientist of 1996 Award, Association for Applied Psychophysiology and Biofeedback
Scientist of Year Award – National Animal Interest Alliance (1993)
Pioneering Research Contributions Award (1989), Association for Applied Psychophysiology and Biofeedback
Distinguished Research Award, Biofeedback Society of America (1988)
Guggenheim Fellow (1983-1985)
President, Biofeedback Society of America (1978)
Fellow, five societies
Executive Board, four societies

PROFESSIONAL HISTORY:

Professor to University Professor, Department of Psychology,
University of Alabama at Birmingham, 1986-present
Guest Professor to Standing Guest Professor, University of Konstanz, 1995-2004

Guest Professor to Standing Guest Professor, University of Jena, 1996-2004
Visiting Professor - Universities of Tuebingen, Muenster, Hamburg, Humboldt Univ. 1993-2002.
Guggenheim Fellow, 1983-1984.
Associate Director, Institute for Behavioral Research, 1979-1983.
Director, Behavioral Biology Center, Institute for Behavioral Research, 1968-1983.
Senior Consultant, PHS Hospital, Baltimore, 1979-1982.
Research Assistant to Research Associate, Dept. Experimental Neurology, Jewish Chronic Dis. Hosp., 1957-1968.
Research Assistant, Dr. F. Keller, Columbia University, 1956.

MEMBERSHIPS:

American Association for the Advancement of Science (Delegate, Fellow, President, Psychology, Sect. J, 2009)
American Physiological Society (Steering Committee, Sect. Nervous Systems, past)
American Psychological Association (Fellow, 4 Divisions; Executive Committee, Div. 6-past)
American Psychological Society (Charter Fellow)
Biofeedback Society of America (Past President, 1979)
Biofeedback Society of Washington., D.C./MD (Past President, 1978)
Claude Bernard Club (Co-President, 1985-2006)
Society of Behavioral Medicine (Fellow)
Society for Neuroscience
Society for Psychophysiological Research
American Congress of Rehabilitation Medicine

BIOGRAPHICAL SKETCH OF EDWARD TAUB, PH.D.

Dr. Edward Taub received his doctoral degree from New York University in psychology under the supervision of Dr. Edgar E. Coons. He is a University Professor in the Department of Psychology at the University of Alabama at Birmingham. Dr. Neal E. Miller was his main mentor. His research has been primarily in the fields of behavioral neuroscience, behavioral medicine, and neurorehabilitation. Dr. Taub has been President of Section J (Psychology) of the American Association for the Advancement of Science (AAAS), President of the Biofeedback Society of America, a Guggenheim Fellow, a Humboldt Foundation Fellow, and Co-President of the Claude Bernard Club, a research honorary society in the field of applied psychophysiology. He has been on the Board of Directors of four national scientific societies and is a Fellow of four societies. He has received the top awards for his research from three national professional organizations and from the University of Alabama at Birmingham. In 2003, the research from his laboratory was named by the Society for Neuroscience as being one of the 10 leading examples of translational research in the field of neuroscience in the twentieth century.

Until 1981, Dr. Taub carried out somatosensory deafferentation research with monkeys in which sensation is surgically abolished from the upper extremities. The main finding from these early studies was that somatic sensation and spinal reflexes are not necessary for the performance of purposive movement. This finding stimulated considerable research activity and has provided a basis for changing views concerning the neural control of movement. It was instrumental in disproving the experimental basis of Sherringtonian reflexology, the dominant position in the fields of neurology and neuroscience during the first 70 years of the twentieth century.

In Dr. Taub's fetal deafferentation research, monkey fetuses were removed from the uterus as early as two-fifths of the way through gestation, operated upon, and then replaced in the uterus for the completion of pregnancy. This was the first work to employ intrauterine surgical techniques to produce specific lesions in the nervous system by direct approach. This type of research might be termed fetal neuropsychology; its purpose was to investigate the prenatal origins of behavior. The neurosurgical procedure was a precursor of what is currently a standard neurosurgical treatment for spina bifida in humans.

In 1970, Dr. Taub developed the technique now called thermal biofeedback. (Elmer Green and his co-workers developed a similar technique independently.) It is currently one of the most commonly used biofeedback modalities in clinical practice; it is used for the relief of such painful or life-threatening disorders as Raynaud's disease, migraine headache, hypertension and other stress-related conditions. Dr. Taub has carried out mainly basic research in this area; his clinical research was with Raynaud's disease.

Twenty-six years ago, Dr. Taub translated his basic research with monkeys with a deafferented forelimb into a successful form of neurorehabilitation termed Constraint-Induced Movement Therapy or CI therapy. As of May 2012, close to 400 studies had been published on CI therapy, including 3 Cochrane reviews and the only successful multisite randomized controlled trial in neurorehabilitation for the upper extremities to date. There is now more evidence of efficacy for this treatment than for any other form of neurorehabilitation by at least an order of magnitude. The patients in this research were chronic, with strokes that had been experienced more than one year earlier. This disproved the axiomatic belief in rehabilitation medicine at that time that the movement deficit of chronic stroke patients could not be improved. Dr. Taub's laboratory found that the treatment works equally well for the lower extremities as the upper extremities. It also found that CI therapy can produce a substantial improvement in function of patients with stroke who initially have completely paralyzed hands.

Over the past 20 years, Dr. Taub and collaborators have used a CI Therapy approach to develop successful treatments for the motor deficit resulting from damage to the central nervous system in a number of conditions that had previously proved refractory to treatment: chronic stroke, chronic traumatic brain injury, cerebral palsy of varied etiologies, multiple sclerosis, and focal hand dystonia in musicians. The CI Therapy approach has also been used to improve speech in patients with post-stroke aphasia.

With German collaborators, Dr. Taub demonstrated the existence of brain reorganization in adult humans and that it had significance for the function of people after damage to the central nervous system and after decreased use of parts of the body (e.g., phantom limb pain) and increased use (e.g., focal hand dystonia, left hand in string players). Previous demonstrations of plastic brain changes had only been with animals by Merzenich, Kaas and others, and the functional significance of this phenomenon had not previously been demonstrated. This and other work has led to an emerging picture of a very plastic human nervous system that appears to keep reorganizing itself based on the environmental demands placed upon it. Thus, it is not only true that the brain produces behavior, but behavior in turn can have a profound reciprocal effect on the organization and function of the brain.

Dr. Taub showed that plastic brain reorganization can be harnessed through the use of the neurorehabilitation technique he developed. For example, he found that CI therapy produces an increase in grey matter tissue in motor areas in the cerebral cortex of both hemispheres – a true remodeling of the brain. This occurs in older patients as well as children, indicating that the potential of the brain for plastic change persists throughout the life span. In addition, he found that there is an increase of grey matter in the hippocampus. Since this is the location of a substantial concentration of endogenous neural stem cells, the feasibility arises that the creation of new nerve cells is involved in the therapeutic effect produced by CI therapy.

PUBLICATIONS

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- Taub, E., Perrella, P. N., & Barro, G. (1972). Behavioral development in monkeys following bilateral forelimb deafferentation on the first day of life. *Trans. Amer. Neurol. Assn.*, 97, 101-104. (b)
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- Uswatte, G., and Taub, E. (2013). "Constraint-Induced Movement Therapy: A Method for Harnessing Neuroplasticity to Treat Motor Disorders," in *Changing Brains - Applying Brain Plasticity to Advance and Recover Human Ability*, eds. M. Merzenich, M. Nahum & T. Van Fleet. (UK: Elsevier), 379-401.
- Iversen, I. (2013). Interview with Edward Taub: CI therapy as a behavioral analysis neurorehabilitation intervention. *European Journal of Behavior Analysis* 14, 361-384
- Taub, E. (2013). Promoting acceptance of efficacious behavior analysis interventions by clinical communities: the example of CI therapy. *European Journal of Behavior Analysis* 14, 127-139.
- Taub, E., & Uswatte, G. (2014). Importance for CP rehabilitation of transfer of motor improvement to everyday life. *Pediatrics*, 133, e215-e217.
- Bowman, M.H., Mark, V.W., & Taub, E., (in press) Constraint-Induced Movement Therapy for Restoration of Upper-Limb Function: Introduction In I. Soderback (editor) *International Handbook of Occupational Therapy Interventions: 2nd Ed.* New York: Springer Publishing
- Taub, E., Uswatte, G., & Mark, V.W. (in press) The functional significance of cortical reorganization and the parallel development of CI therapy. *Frontiers in Neuroscience*
- Taub, E. & Mark, V.W., (in press) Generality of principles that might underlie visual deficit training and CI Movement therapy. *Frontiers in Neuroscience*

REPRINTED ARTICLES

- Taub, E., & Emurian, C. S. (1976). Feedback aided self-regulation of skin temperature with a single feedback locus: I. Acquisition and reversal training. *Biofeedback and Self-Regulation*, 1, 147-167.(1) In T. X. Barber, L. V. DiCara, J. Kamiya, N. E. Miller, D. Shapiro, & J. Stoyva (Eds.), *Biofeedback and self-control: 1977. An Aldine Annual on the Regulation of Bodily Processes*

and Consciousness. Chicago: Aldine, 1977.(2) In E. Peper, & S. Ancoli (Eds.), Essential Readings in Biofeedback. Hermes House: 1978.

Taub, E., & School, P. J. (1978). Some methodological considerations in thermal biofeedback training. Behavioral Research Methods and Instrumentation, 10, 617-622. In M. B. Shtark, & T. M. Sokhadze (Eds.), Biofeedback: Theory and Practice. Moscow: Nauka Publishing, 1993.

Taub, E., Smith, R., Weingarten, E., Steiner, S. S., & Walton, K, G. (1994). Transcendental meditation and EMG biofeedback as treatments for severe chronic alcoholism with long-term follow-up. Alcoholism Treatment Quarterly, 11. Reprinted in: (1) J. Kamiya (Ed.), Alpha/Theta training: Theory and Applications. New York: Plenum. (2) D.F. O'Connell, & C.N. Alexander (Eds.), Self-recovery: Treating addictions using Transcendental Meditation and Maharishi Ayur-Ved (pp.187-220). Louisville, KY: Haworth Press.

Taub, E., Miller, N.E., Novack, T.E., Cook, E.W. III, Fleming, W.C. (1996).

Nepomuceno, C.S., Connell, J.S., & Taub, E. (1993). Technique to improve chronic motor deficit after stroke. Archives of Physical Medicine and Rehabilitation, 74, 347-354. In Revista Iberoamericana de Rehabilitacion

COMMERCIALLY AVAILABLE TAPED LECTURES

UAB Training Program for CI therapy — Taub, E. and Morris, D. May and November, 2006-2010

Biographical Book Chapter: Doidge, Norman (2007). The Brain that Changes Itself. New York, New York: Penguin Group.

TEACHING (SINCE 1987)

Each course given repeatedly:

Methods in Psychological Research
Medical Psychology
Biofeedback, Meditation and Self-Regulation
Motor Control/Stroke

RESEARCH

CURRENT GRANTS

Harnessing Neuroplasticity to Promote Rehabilitation: CI Therapy for TBI, PT130232; Department of Defense; 10/01/13-9/30/16; \$2,664,760 (E. Taub, PI).

Post-stroke aphasia and rTMS treatment (PART); NIH-NICHD Grant R01 HD068488; 1/1/12-12/30/16; \$2,309,037 (Jerzy Szaflarski, PI)

PAST GRANTS

Movement and learning following deafferentation in monkeys, Grant AF-AFOSR-10421; Air Force Office of Scientific Research; 12/1/65 - 11/30/68, 3 years, \$99,593.

Behavioral baselines for the experimental study of uremia, Grant DADA17-69-C-9094; U.S. Army, Office of the Surgeon General; 2/1/68 - 1/31/70, 2 years; \$121,016.

Self-regulation of vasomotor tone in peripheral vascular beds, Grant N00014-70-C-0350; U.S. Navy, Office of Naval Research; 5/1/70 - 6/30/75, 5 years, \$205,832.

Effects of somatosensory deafferentation, Grant MH 16954; National Institute of Mental Health; 9/1/70 - 11/30/79, 10 years; \$687,046.

Behavioral compensation for sensory rearrangement, Grant MH 18821; National Institute of Mental Health; 9/1/70 - 8/31/73, 3 years; \$131,396.

Intrauterine surgery in primates and the neuropsychology of embryonic development; The W.T. Grant Foundation; 8/1/72 - 7/31/74, 2 years; \$153,029.

Fetal origins of primate sensory-motor integration. Grant HD NS 08579; National Institute of Child Health and Human Development; 6/1/74 - 7/31/77, 3 years; \$233,697.

Transcendental meditation as a therapy for alcoholism, Grant AA-1279; National Institute of Alcohol Abuse and Alcoholism; 10/1/74 - 12/31/77, 3 years; \$348,164.

Raynaud's disease and temperature self-regulation, Grant HL 21323; National Heart, Lung and Blood Institute; 7/1/77 - 6/30/80, 3 years; \$292,477.

Use of hypnotherapy to treat vascular disorders failing to respond to biofeedback therapy; Psychological Research Foundation, Inc.; 7/1/79 -8/30/82, 3 years; \$171,798.

Somatosensory deafferentation in monkeys, Grant NS 16685; National Institute of Neurological and Communicative Diseases and Stroke; 4/1/80 - 3/31/82, 2 years; \$179,972. (Continuation of Grant MH 16954 - above)

A new technique to increase functional independence in elderly persons following stroke. Grant #94-172; Retirement Research Foundation; 12/1/94 -11/30/97 (3yrs.); \$114,757. (Edward Taub, P.I.)

Development of Technique to Increase Functional Independence in the Homebound Elderly after Stroke. UAB Center for Aging Intramural Grant. 11/1/92 -9/30/93 (1 yr): \$24,980 (Edward Taub, P.I.)

Improvements in a new technique for increasing movement after stroke. Grant B95-975R; VA Rehab R&D Service; 06/01/96 - 11/30/99, 3 yrs.; \$386,650. (Rama Pidikiti, Co-P.I. and Edward Taub, Co-P.I.).

Advancement of research in treating children's neuromotor disorders. [CI Therapy]. Grant HSF/GEF0011; Health Services Foundation of University of Alabama at Birmingham; 2/15/00 - 2/14/01 (1 yr.) \$156,769. (Sharon Ramey and Edward Taub - Co-PIs)

Accelerometry: A new approach to real-world outcome measurement in rehabilitation. James S. McDonnell Foundation: 1/1/98-12/31/99 (3 yrs.); \$90,000 [Gitendra Uswatte - P.I.; Edward Taub (Mr. Uswatte's mentor), Senior Collaborating Investigator].

Outcome of lower extremity Constraint-Induced therapy after stroke. Grant W98 0410; VA Rehab R&D/Health Services R&D; 10/1/98 - 9/30/02 (4 yrs.); \$747,776. (Edward Taub, P.I.)

Automated Constraint-Induced Therapy for Restoring Movement After Strokes. VA Rehab R&D. 08/01/01 - 07/31/04 (3 yr.) \$466,500. (Peter Lum - P.I., Edward Taub - Co-P.I.).

Use of a Novel Driving Simulator in Constraint-Induced Stroke Therapy. B02-2543R; VA Rehab R&D. 03/01/04 - 06/31/07 (3 yr.) \$717,800. (Machiel Van der Loos - P.I., Edward Taub - Co-P.I.).

Randomized Controlled Trial of Pediatric CI Therapy. RO1 HD 40692 NIH; 07/01/02 - 11/30/07 (5 yrs.); \$1,385,072 (Edward Taub, P.I.).

EXCITE (Extremity Constraint-Induced Therapy Evaluation) Trial. HD37606; National Institutes of Health; 4/1/00 - 3/31/07; A national clinical trial of this laboratory's CI Therapy. UAB - 1 site plus national training center; \$1,177,138 (site PI - Edward Taub). Entire clinical trial (Steven Wolf - PI) \$5,626,959 (5 yr).

A Treatment for Excess Motor Disability in the Aged. Grant HD 34273; National Center for Medical Rehabilitation Research (NCMRR) of NIH; Dual NIA; 12/9/96 -05/31/08 (12 yrs.); current four year continuation; \$1,460,745.(Edward Taub, P.I.).

CI Therapy Modified for Rehabilitating Arm Function in Stroke Survivors with Plegic Hands. Grant H133G050222; National Institute for Disability and Rehabilitation Research (NIDRR), U.S. Department of Education (3 yr); \$440,525 5/30/04—5/31/08(Gitendra Uswatte of this laboratory PI; Edward Taub Co- I).

Home-based Automated Therapy of Arm Function After Stroke via Telerehabilitation. National Institutes of Health (4 yr); \$1,186,502 (Gitendra Uswatte of this laboratory PI; Edward Taub Co-I). End Date: 3/31/13.

Constraint Induced Movement Therapy Trial for Progressive Multiple Sclerosis. National Institutes of Health. \$402,813. (Victor Mark of this laboratory PI; Edward Taub Co-I). End Date: 8/30/13.

Rehabilitation Extremity Use after Multiple Sclerosis. National Multiple Sclerosis Society. (Victor Mark of this laboratory PI; Edward Taub Co-I). \$784,649. End Date: 10/1/09 - 9/30/11.

Evolution of Learned Nonuse in Stroke Hemiparesis. National Institutes of Health. (2 yrs); \$100,000. (Victor Mark of this laboratory PI; Edward Taub Co-I). End date: 9/12.

Exploring the Effects of Rehabilitation on Brain Remodeling in Progressive MS. PI: Victor Mark. Co-PI: E. Taub; National Institutes of Health.

Evolution of Learned Nonuse in Stroke Hemiparesis. PI: Victor Mark. Co-PI: E. Taub. National MS Society. Rehabilitating Extremity Use after MS. PI: Victor Mark. Co-PI: E. Taub;

ADDITIONAL PAST SUPPORT (SMALL GRANTS)

Intrauterine deafferentation, Grant TT 05636; National Institute of Health; 9/4/71 - 7/31/74, 3 years; \$50,593. Behavioral Capacity following somatosensory deafferentation in monkeys, Grant RR 05636; National Institutes of Health; 7/26/72 - 3/31/80, 8 years; \$134,378.

Nursing care for infant monkeys; The W.T. Grant Foundation; 3/1/73 - 2/28/74, 1 year; \$7,000.

Biofeedback-aided self-regulation of hand temperature, Grant RR 05636; National Institute of Health; 3/1/74 - 3/31/80, 6 years; \$21,071.

Motor skills of neonatally deafferented monkeys, Grant MH 24416; National Institute of Mental Health; 6/1/74 - 11/30/75, 1 2 years; \$6,550.

Relaxation therapy for alcoholics, Grant RR 05636; National Institutes of Health; 4/1/76 - 3/30/78m 2 years; \$10,632.

Self-healing, Grant RR 05636; National Institutes of Health; 7/1/77 - 3/31/78, 9 months; \$3,300.

Irritable bowel syndrome: Prospective study of how people cope with bowel symptoms. 9/15/91 - 9/14/92 Digestive disease Research Trust Fund, Inc., 1 year; \$23,550.

Excess motor disability in stroke: Neural mechanisms and treatment. Health Services Foundation of UAB General Endowment Fund Grant. 1/1/96 - 11/30/97 (2yrs.); \$35,000. (Anjan Chatterjee, P.I.; Edward Taub, Co-P.I.).

Analysis of cortical and behavioral plasticity. Grant 1997/1; German-American Academic Council Foundation, Transcoop Program; 12/7/98-12/6/99, 2 yrs.; \$37,000 (Herta Flor - P.I.; Edward Taub - American Partner).

The Impending Paradigm Shift in Neurorehabilitation and Remediation. The Melding of Basic Research in Neuroscience and Behavioral Science to Produce Advances in Therapeutics. McDonnell Foundation. 08/01/00 - 07/31/02 (3 yr.) \$65,000. (Edward Taub - P.I.).

Devices for Constraint-Induced Movement Therapy in the UAB Taub Training Clinic. Health Services Foundation General Endowment Fund Grant (3 yrs); \$88,915. (Tom Jannett - PI, Edward Taub - Co-PI).

INVITED ADDRESSES, SYMPOSIA, CONFERENCES, COLLOQUIA

- Taub, E. (1975). The role of somatosensory feedback in EMG-feedback relaxation training. In *Muscle Control and Awareness in Biofeedback Training*. Symposium conducted at the meeting of the Biofeedback Research Society, Monterey.
- Taub, E. (1975). Motor behavior following prenatal and neonatal deafferentation in monkeys. In *symposium on Neural Control of Locomotion*. Valley Forge.
- Taub, E. (1976). Somatosensory deafferentation in monkeys. In *Conference on Tonic Functions of Sensory Systems*. Conference conducted at the meeting of the New York Academy of Sciences, New York.
- Taub, E. (1976). Deafferentation techniques in the investigation of sensory-motor integration. In *Motor Control*. Symposium conducted at the meeting of the North American Society for the Psychology of Sport and Physical Activity, Austin.
- Taub, E. (1976). Limb movements following deafferentation in infant and fetal monkeys. In *Sensory and Neural Factors Underlying Forelimb Movements in Infant Monkeys*. Symposium conducted at the meeting of the International Society for Developmental Psychobiology, Toronto.
- Taub, E. (1976). Self-regulatory control of hand temperature. Address presented at the meeting of the American Association for the Advancement of Tension Control, Chicago.
- Taub, E. (1976). The role of naturally occurring sensory feedback in autonomic self-regulation training. In *Perception and Self-Control of Cardiovascular Activity*. Symposium conducted at the meeting of the Society for Psychophysiological Research, San Diego.
- Taub, E. (1976). Temperature self-regulation. One hour talk presented at the Biofeedback Society of America Training Workshop for Professionals, Sturbridge.
- Taub, E. (1977). Behavioral development following somatosensory deafferentation on day of birth and during the mid-prenatal period. In *The Development of Motor Systems*. Symposium conducted at the meeting of the Society for Neuroscience, Anaheim.
- Taub, E. (1977). Deafferentation in monkeys: The role of somatosensory feedback in the learning, maintenance and early development of behavior. Address presented at the meeting of the Midwestern Association of Behavior Analysis, Chicago.
- Taub, E. (1977). Somatosensory deafferentation in monkeys deafferented on day of birth and during the prenatal period. In *Motor Development Symposium*. Symposium conducted at Temple University, Philadelphia.
- Taub, E. (1977). Movements in monkeys following somatosensory deafferentation. In *Neurophysiological Mechanisms of Locomotion*. Symposium conducted at the meeting of the International Congress of Physiology, Paris.
- Taub, E. (1977). Effect of forelimb deafferentation during the mid-prenatal period on motor development in monkeys. Paper presented at the meeting of the VIth International Congress of Biomechanics, Copenhagen, Denmark.
- Taub, E. (1977). Use of transcendental meditation, EMG biofeedback and electronic neurotherapy as therapies for alcoholism. Paper presented at the meeting of the NATO International Conference on Behavioral Approaches to Alcoholism, Bergen, Norway.
- Taub, E. (1977). Self-regulation of human tissue temperature. Keynote lecture at *Symposium on Biofeedback*. Symposium conducted at Texas Research Institute for Mental Retardation, Houston.
- Taub, E. (1978). Self-regulation of human tissue temperature. Guest address at *Annual Meeting of the Biofeedback Society of New York*, New York.
- Taub, E. (1978). Clinical protocols for thermal biofeedback training. Guest lecture presented at *Workshop on Biofeedback Techniques*. Adelphi University.
- Taub, E. (1978). Vasoconstrictive Syndromes. In *Reports of Study Section Chairmen*. Symposium summarizing the six main task force reports at the meeting of the Biofeedback Society of America, Albuquerque.

- Taub, E. (1978). Effect of forelimb deafferentation during the midprenatal period on postnatal motor development in monkeys. Fellow's Address at the meeting of American Psychological Association, Toronto.
- Taub, E. (1979). The nature of the subject-experimenter interaction as a determinant of thermal biofeedback training. In *Do Beliefs Have Biological Consequences?* Symposium conducted at the meeting of the Biofeedback Society of America, San Diego.
- Taub, E. (1979). Temperature self-regulation in patients with primary Raynaud's disease. In *Behavioral Treatment of Raynaud's Disease*. Symposium conducted at the meeting of the Biofeedback Society of America, San Diego.
- Taub, E. (1979). Thermal biofeedback and clinical implications. Guest lecture at Georgetown University School of Medicine Conference on Biofeedback, Washington, D. C.
- Taub, E. (1979). Research and clinical implications of self-regulation of human tissue temperature. In *Biofeedback: Development, Research and Clinical Practice*. Symposium conducted at meeting of American Orthopsychiatric Association, Washington, D.C.
- Taub, E. (1979). Clinical considerations and training procedures for thermal biofeedback. Lecture presented at Biofeedback Society of America Workshop for Professionals, Danvers, Massachusetts.
- Taub E. (1979). Behavioral effects of somatosensory deafferentation in developing monkeys. In *Genetic and Experiential Factors in Perceptual Development*. Conference held at Indiana University, Bloomington.
- Taub, E. (1979). Biofeedback: Where are we and where are we headed? Keynote address at Biofeedback Seminar and Training Workshop. Conference sponsored by Biofeedback Society of Pennsylvania, Altoona.
- Taub, E. (1980). Thermal biofeedback techniques and clinical applications. Keynote address at Self Management of Everyday Tension and Stress. Conference sponsored by Marymount Manhattan College, New York.
- Taub, E. (1980). 1. Definition and overview of biofeedback. 2. Thermal biofeedback. Two talks at symposium on Self-Regulation of Physiological Response Systems through Biofeedback: Basic Research and Clinical Applications. AAAS meeting, San Francisco.
- Taub, E. (1980). Biofeedback in the treatment of Raynaud's disease. Sole faculty member for one-half day workshop at the meeting of the Biofeedback Society of America, Colorado Springs.
- Taub, E. (1980). Measurement of skin temperature for thermal biofeedback. Conference of a consultant group on Non-invasive Methodologies in Measurement of Cardiovascular/Autonomic Nervous System Function. NIH, Bethesda, MD.
- Taub, E. (1980). Methodological issues in biofeedback. Keynote address at Biofeedback in Physical Medicine, workshop sponsored by McMaster University School of Medicine, Hamilton, Ontario, Canada.
- Invited Lecturer - Taub, E. (1981). Use of training techniques to establish function in a deafferented primate limb: A possible model for biofeedback and for a new approach in rehabilitation medicine. Presented at meeting of the Claude Bernard Club, Louisville.
- Debate - Taub, E. and Surwit, R. (1982). Effectiveness of thermal biofeedback for skin temperature control. Presented at meeting of the Biofeedback Society of America, Chicago.
- Keynote Address - Taub, E. (1983). Clinical use of thermal biofeedback. Additional Lecture - A new approach to the rehabilitation of patients after stroke. Presented at the meeting of the Biofeedback Society of Florida, Gainesville.
- Distinguished Lecturer Talk - Taub, E. (1983). Thermal biofeedback research. Past, present and future. Presented at the meeting of the at the meeting of the Biofeedback Society of Washington, D. C./Maryland, Baltimore.

- Symposium - Taub, E., Chairman. (1986). Problems in clinical biofeedback research: Is misapplied scientific "rigor" misleading the public? Talk -Application of inappropriate models in biofeedback research. Presented at meeting of the Biofeedback Society of America meeting, San Francisco.
- Symposium - Taub, E., Chairman. (1986). Evolution and development of "forced use" paradigm. In Contemporary Approaches to Diagnosis and Treatment of Neurological Impairment and Application of Forced Use Treatment Technique. Symposium presented at the meeting of the American Congress of Rehabilitation Medicine, Baltimore.
- Symposium - Taub, E., Chairman. (1986). Overcoming "learned non-use" in deafferented monkeys. In Overcoming "Learned Non-use": A New Approach in Rehabilitation Medicine—The Step from Monkeys to Man. Symposium presented at the meeting of the Biofeedback Society of America, San Francisco.
- Symposium - Taub, E., Chairman. (1987). A dialogue on research and clinical issues in biofeedback training - what is good clinical research? Presented at meeting of the Biofeedback Society of America meeting, Boston.
- Symposium - Taub, E., Mager, E., & Gulp, C. L., Jr. (1987). Cost effectiveness of biofeedback treatment in a hospital outpatient clinic. In Cost Effectiveness of Biofeedback and Other Behavioral Medicine Treatments. Symposium presented at the Biofeedback Society of America, Boston.
- Invited tutorial lecture - Taub, E. (1988). Behavioral interventions for somatic disorders: Biofeedback and applications from the deafferentation laboratory. American Physiological Society, Montreal.
- Taub, E. (1989). Origins and basic research in thermal biofeedback. In E. Taub (Chair), Thermal biofeedback: Past, present and future. Symposium presented at the meeting of the Biofeedback Society of America, San Diego.
- Taub, E. (March 1989). The status of the concept of consciousness in behavioral medicine. In J. Stoyva (Chair), Multiple levels of observation in biofeedback and psychophysiology; Toward enlightenment or its opposite. Symposium conducted at the meeting of the Biofeedback Society of America, San Diego.
- Taub, E. (June, 1989) Co-Organizer; "Mind, Body and the Performing Arts: Conference on Stress Reduction." National conference co-sponsored by Department of Psychology, UAB Medical School, and Birmingham-Southern College.
- Taub, E. (June, 1989). "Overview of Relaxation Techniques," paper presented at "Mind, Body, and the Performing Arts: Conference on Stress Reduction." Birmingham
- Taub, (August, 1989). Overcoming learned nonuse in stroke patients with motor impairment. Invited one-hour address presented at meeting of American Psychological Association, New Orleans.
- Taub, E., Cook, E. W. III, McCutcheon, M. J., & Whitehead, W. E. (September, 1989). Development of an electromyographic technique for the detection of air swallowing. Gastrointestinal Psychophysiology Conference, Budapest, Hungary.
- Taub, E. (March, 1990). The method of strong inference: A practical and explicit method for scientific analysis and the planning of experiments. Association for Applied Psychophysiology and Biofeedback, Washington, D. C. (One-hour invited address).
- Taub, E. (March, 1990). Four-hour workshop on the Method of Strong Inference as a method for scientific analysis and the planning of experiments. Association for Applied Psychophysiology and Biofeedback, Washington, D. C.
- Taub, E. (1991, March). Overcoming learned nonuse: Development in monkeys following deafferentation and application in humans for the rehabilitation of movement after stroke. In N. E. Miller (Chair), Overcoming learned nonuse and the release of covert behavior as a new approach to physical rehabilitation. Symposium conducted at the meeting of the Association for Applied Psychophysiology and Biofeedback, Dallas.

- Taub, E. (1991, March). Discussant and Chair. Anomalous Phenomena in Psychophysiology. Symposium conducted at the meeting of the Association for Applied Psychophysiology and Biofeedback, Dallas.
- Taub, E. (1991, March). Co-Chairman. Thermal biofeedback and Raynaud's Disease. Roundtable discussion conducted at the meeting of the Association for Applied Psychophysiology and Biofeedback, Dallas.
- Taub, E. (September, 1991). Overcoming learned nonuse: A new behavioral medicine approach to physical medicine. Invited one hour address presented at the Second International Conference on Biobehavioral Self-Regulation and Health, Munich, Germany.
- Taub, E. (September, 1991). Clinical protocols for thermal biofeedback and the treatment of Raynaud's disease. One-half day workshop conducted at the Second International Conference on Biobehavioral Self-Regulation and Health, Munich, Germany.
- Taub, E. (March, 1992). The person factor as a critical variable in autonomic self-regulation. In J. Stoyva (Chair). Does biofeedback have any principles? Symposium conducted at the meeting of the Association for Applied Psychophysiology and Biofeedback, Colorado Springs.
- Taub, E. (March, 1992). Chair. Round table discussion on Behavioral Treatment of Raynaud's Disease at the meeting of the Association for Applied Psychophysiology and Biofeedback, Colorado Springs.
- Taub, E. (April, 1992). Overcoming learned nonuse: A new behavioral approach to rehabilitation medicine stemming from research with deafferented animals. In L. Bartoshuk and R. M. Church (Chairs), Neural reorganization and behavioral "recovery" after sensory deafferentation: Transitions from animal research to human clinical applications. Symposium conducted at the meeting of the Eastern Psychological Association, Boston.
- Taub, E. Overcoming learned nonuse: A new behavioral approach to rehabilitation medicine stemming from research with deafferented monkeys (1993, March). In A Festschrift in Honor of Joseph Vincent Brady in his 70th Year; N. Ator and W. Hodos (Co-Chairs). Baltimore, M.D.
- Taub, E. (March, 1993). Meeting of the Association for Applied Psychophysiology and Biofeedback, Los Angeles. 1. Chair, Symposium, Pathways to innovation in applied psychophysiology through increased specificity of measurement and application. 2. Increasing the anatomical specificity of thermal biofeedback control. Paper read in above symposium.
- Taub, E. Behavioral plasticity following central nervous system damage in monkeys and man (1993, May). Paper presented in Santa Fe Institute Workshop; B. Julesz (Chair), Maturational windows and cortical plasticity in human development: Is there a reason for an optimistic view? Santa Fe, NM.
- Taub, E. (September, 1993). Overcoming learned nonuse: A new behavioral medicine approach to physical medicine. In A. Umezama, & N. E. Miller (Co-Chairs), A New Approach to Physical Rehabilitation. Symposium conducted at the Third International Conference on Biobehavioral Self-Regulation and Health, Tokyo.
- Taub, E. (March, 1994). Effect of treatment and motor restriction on improving functional tasks and altering brain behavior. Invited talk presented in Neuroimaging in Neurological Rehabilitation. Conference conducted at Bowman Gray School of Medicine, Winston-Salem, NC.
- Taub, E. (1994, March). Is alpha/theta training the effective component of the alpha/theta therapy package? Research with TM and BMG biofeedback. Invited address presented at the Association for Applied Psychophysiology and Biofeedback. Cincinnati.
- Taub, E. (1994, June). Afferent component of feedback-assisted vasomotor control. Invited address presented at conference on Interoception and Autonomic Control. Tegernesee, Germany.
- Taub, E. (1994, June). Behavioral plasticity and cortical plasticity: A new approach to the rehabilitation of movement after stroke. Colloquium presented at the Department of Neurology, University of Tuebingen, Germany.

- Taub, E. (1994, June). Behavioral plasticity and cortical plasticity: A new approach to the rehabilitation of movement after stroke. Colloquium presented at the Department of Neurology, University of Muenster, Germany.
- Taub, E. (1994, July). Overcoming learned nonuse following somatosensory deafferentation in monkeys and stroke in man. In A. R. Seifert (Chair), *Overcoming Learned Nonuse: Understanding and Treating Excess Motor Disability*. Symposium presented at the Third International Congress of Behavioral Medicine, Amsterdam, Netherlands.
- Taub, E. (November, 1994). Behavioral plasticity and cortical plasticity following CNS damage in monkeys and humans. Colloquium presented at University of Muenster, Germany.
- Taub, E. (1994, November). A new set of techniques for improving motor function in stroke patients. Invited talk given at Alabama Behavioral Medicine Association, University of Alabama at Birmingham, Birmingham, AL.
- Taub, E. (1994, November). Anatomical specificity of thermal biofeedback self-regulation. Colloquium presented at University of Tuebingen, Germany.
- Taub, E. (1994, December). A new set of techniques for improving motor function in stroke patients. Colloquium presented at University of Jena, Germany.
- Taub, E. (1994, December). A new set of techniques for improving motor function in stroke patients. Colloquium presented at University of Trier, Germany.
- Taub, E. (1994, December). A new set of techniques for improving motor function in stroke patients. Colloquium presented at Berncastle Rehabilitation Center, Berncastle, Germany.
- Taub, E. (1995, March). Behavioral plasticity and cortical plasticity. Annual Guest Lecture presented at Claude Bernard Club, Cincinnati.
- Taub, E. (1995, March). Welcome and Introduction. AMA Workshop, Medical Progress: A Miracle at Risk. University of Alabama at Birmingham.
- Taub, E. (1995, May). Learned nonuse in cerebrovascular disease. Grand Rounds, Lakeshore Rehabilitation Hospital, Birmingham.
- Taub, E. (1995, July). Cortical plasticity and amputation. Clinical Neurophysiology Grand Rounds, NINDS, NIH, Bethesda.
- Taub, E., DeLuca, S.C., Crago, J.E. (1995, August). Overcoming learned nonuse: A new set of rehabilitation techniques for improving motor recovery after stroke. In M.S. Mennemeier (Chair), *Development and Implementation of Rehabilitation Treatment Strategies for Patient Subgroups: New Perspectives on Selection Criterion*. Symposium presented at American Psychological Association Meeting, New York.
- Taub, E. (1995, October). Overcoming learned nonuse: A new set of techniques for rehabilitation of movement after stroke. Colloquium presented at a meeting of the Biofeedback and Behavioral Medicine Society of Hawaii combined with Grand Rounds, Rehabilitation Hospital of the Pacific, Honolulu.
- Taub, E. (1995, November). Constraint Induced (CI) Movement: A new family of therapies for improving the amount of upper extremity use after stroke. Grand Rounds, Smieder Klinik, Allenbach, Germany.
- Taub, E. (1995, November). Constraint Induced (CI) Movement: A new family of therapies for improving the amount of upper extremity use after stroke. Grand Rounds, Isny Klinik, Isny, Germany.
- Taub, E. (1995, December). Constraint Induced (CI) Movement: A new family of therapies for improving the amount of upper extremity use after stroke. Grand Rounds, Department of Rehabilitation Medicine, Free University, Amsterdam, The Netherlands.
- Taub, E. (1996, February). Does constraining the contralateral limb enhance functional use of the hemiparetic arm and hand? Invited address at Combined Sections Meeting of the American Physical Therapy Association, Atlanta.

- Taub, E. (1996, March). Transcendental meditation in the treatment of alcoholism. In E. Taub (Chair), Alcoholism: Mechanisms and Self-Regulation Treatment. Symposium presented at the Association for Applied Psychophysiology and Biofeedback Meeting, Albuquerque, NM.
- Taub, E. (1996, April). Cortical plasticity and behavioral plasticity. Psi Chi Keynote address, University of Alabama at Birmingham, Birmingham.
- Taub, E. (1966, June). Behavioral plasticity and cortical plasticity. Invited closing address in First Berlin Workshop on Cortical Plasticity, Berlin.
- Taub, E. (1996, June). Constraint-Induced (CI) Movement: A new family of therapies for improving the amount of upper extremity use after stroke. Invited talk at Bad Klosterlausnitz Rehabilitation Hospital, Bad Klosterlausnitz, Germany.
- Taub, E. (1996, September). Brain plasticity and behavioral plasticity. Invited address presented at Child Neurology Society meeting, Minneapolis.
- Taub, E. (1996, September). Constraint-Induced (CI) Movement Therapy: A new family of therapies for the rehabilitation of movement after stroke. Invited talk at Conference on "Towards a New Science of Cognitive Rehabilitation", sponsored by the James S. McDonnell Foundation and NCMRR of NIH, St. Louis.
- Taub, E. (1996, November). Constraint-Induced (CI) Movement Therapy: A new family of therapies for the rehabilitation of movement after stroke. One of two Public Lectures given at the meeting of the National Advisory Council of the National Center for Medical Rehabilitation Research (NCMRR) of NIH under the general title What's New in Rehabilitation, Alexandria, VA.
- Taub, E. (1996, December). Constraint-Induced (CI) Movement Therapy: A new family of therapies for the rehabilitation of movement after neurological injury. Grand Rounds, Department of Neurology, University of Jena, Germany.
- Taub, E. (1997, March). Constraint-Induced (CI) Movement Therapy: A new family of therapies for the rehabilitation of movement after stroke. Keynote address presented at the German Society of Behavioral Medicine, Jena, Germany.
- Taub, E. (1997, March). Alpha/Theta training: Similar results with meditation and another self-regulation technique and implications of the "person factor". In C.F. Stroebel (Chair) Nonspecific Factors for Enhancing Neurotherapy Treatment of Addictions. Symposium presented at Association for Applied Psychophysiology and Biofeedback meeting, San Diego.
- Taub, E. (1997, April). The functional relevance of cortical reorganization for behavior and perception. Society for Neuroscience Grass Lecture at University of Texas Health Science Center, San Antonio.
- Taub, E. (1997, April). Functional significance of cortical reorganization after stroke and amputation and in tinnitus. In conference on Neural Reorganization: Implications for Rehabilitation, San Antonio.
- Taub, E. (1997, April). Constraint-Induced (CI) Movement Therapy: A new family of therapies for the rehabilitation of movement after stroke. Invited address presented at conference on Movement Disorders Associated with Aging, Teachers College of Columbia University, New York City.
- Taub, E. (1997, June). Functional significance of cortical reorganization after stroke and amputation and in tinnitus. Paper presented at Conference on Toward an Integration of Neuroscience and Rehabilitation, Jena, Germany.
- Taub, E. (1997, September). Constraint-Induced (CI) Movement Therapy: A new family of treatments for the rehabilitation of movement after stroke. Geriatric Noon Conference, University of Alabama at Birmingham, Birmingham.
- Taub, E. (1997, November). How operant conditioning can overcome learned nonuse in chronic CVA patients: Motor recovery training programs. In McDowell (Chair) Cortical Plasticity: Implications for Sensory and Motor Recovery after Brain Injury. Course presented at American Academy of Physical Medicine and Rehabilitation, Atlanta.

- Taub, E. (1997, November). How sensory information modulates cortical reorganization and perception: Applications to phantom limb pain, tinnitus and CVA. In McDowell (Chair) Cortical Plasticity: Implications for Sensory and Motor Recovery after Brain Injury. Course presented at American Academy of Physical Medicine and Rehabilitation, Atlanta.
- Taub, E. (1997, November). Faculty member in S. McDowell (Chair) Meet the Experts: Reshaping the Brain—Implications of Plasticity for Motor, Sensory and Cognitive Recovery. Evening seminar presented at American Academy of Physical Medicine and Rehabilitation, Atlanta.
- Taub, E., (1997, November). Long-term behavioral plasticity associated with a new neurorehabilitation technique: Implications for cortical plasticity. Address presented at Second Berlin Conference on Cortical Plasticity, Berlin.
- Taub, E. (February, 1998). Constraint-Induced (CI) therapy: A new family of treatments for the Rehabilitation of Movement after Stroke - and their association with cortical reorganization. Lecture in MNI/Killam Seminar Series, Montreal Neurological Institute, Montreal.
- Taub, E. (April, 1998). Calling the data the way they lie. Keynote address presented at Psi Chi (Psychology honorary society) induction, University of Alabama at Birmingham.
- Taub, E. (April, 1998). A new family of therapies for the improvement of movement after stroke. Distinguished Scientist Address, Association for Applied Psychophysiology and Biofeedback, Orlando.
- Taub, E. (June, 1998). A Constraint-Induced Movement Therapy approach to overcoming a learned nonuse component of chronic pain immobility syndrome. Presentation at Conference on Clinical Psychophysiology of Pain, University of Tuebingen, Germany.
- Uswatte, G. & Taub, E. (September, 1998). Accelerometry as an objective measure of real world outcome in rehabilitation. Presentation at the McDonnell Foundation Cognitive Rehabilitation Meeting, St. Louis.
- Taub, E. (September, 1998). Constraint-Induced (CI) Movement Therapy: A new family of therapies in neurorehabilitation. Presentation at Workshop on Designing Effective Programs for Stroke Rehabilitation., Cincinnati.
- Taub, E. (October, 1998). Cortical reorganization resulting from a new motor neurorehabilitation technique: Relevance for treatment after early CNS insult. Presentation at Neurobiology Research Consortium Conference on Neurobiological Approaches to Assessment and Intervention: Ameliorating Early Brain Insult, Ithaca.
- Taub, E. (October, 1998). New approaches to stroke rehabilitation. Presentation at Issues in Aging. UAB Geriatric Education Center Conference. University of Alabama at Birmingham.
- Taub, E. (November, 1998). The animal rights threat to academic freedom. In J. Furedy (Chair) Politically Incorrect Research in the Neurosciences. Symposium presented at Society for Neuroscience meeting, Los Angeles.
- Taub, E. (November, 1998). Plasticity and recovery of function after nervous system injury. Address presented at National Neurotrauma Society meeting, Los Angeles.
- Taub, E. (April, 1999). The functional significance of cortical reorganization for perception, behavior and enhancement of recovery of function after CNS damage. Colloquium presented at Center for Molecular and Behavioral Neuroscience, Rutgers University, Newark.
- Elbert, T., & Taub, E. (August, 1999). Use-dependent alterations of cortical organization and its clinical implications. Address presented at Bans Berger Conference 99, University of Jena. Schmeider Clinic, Allensbach, Germany.
- Taub, E. (August, 1999). Constraint-Induced Movement Therapy: A new family of treatments in rehabilitation medicine.
- Taub, E. (September, 1999). CI therapy; A new family of treatments in rehabilitation stemming from basic research in neuroscience and behavioral science. Colloquium presented in Department of Neurobiology, University of Alabama at Birmingham.

- Taub, E. (October, 1999). Constraint-Induced (CI) Movement Therapy: A new family of therapies in neurorehabilitation. Keynote address. Presented at Swedish Association of Registered Physiotherapists Congress, Stockholm.
- Taub, E. (October, 1999). Challenges in physiotherapy in the new millennium. Presented at Swedish Association of Registered Physiotherapists Congress, Stockholm.
- Taub, E. (October, 1999). One-hour introductory talk to Workshop on CI Therapy. Swedish Association of Registered Physiotherapists Congress, Stockholm.
- Taub, E.(October,1999). Constraint-Induced Movement Therapy: A new family of treatments in rehabilitation medicine. Colloquium presented at University of Lund, Sweden.
- Taub, E. (October, 1999). Constraint-Induced Movement Therapy: A new family of treatments in rehabilitation medicine. Colloquium present at Orep Rehabilitation Center, Malmo, Sweden.
- Taub, E.(October, 1999). Constraint-Induced Movement Therapy: A potent means of inducing cortical reorganization in correlation with rehabilitative motor improvement. Keynote address. Presented at Atlantic Canada Stroke Conference, Halifax, Nova Scotia.
- Taub, E.(October, 1999). Clinical considerations in the effective use of Constraint-Induced Movement Therapy. Presented at Atlantic Canada Stroke Conference, Halifax, Nova Scotia.
- Taub, E. (December, 1999). Recent research on CI Therapy: An update. Colloquium presented at Laboratory of Human Motor Control, NINDS, NIH.
- Taub, E. (February, 2000). CI therapy- A new family of treatments in rehabilitation based on massed practice. Keynote address presented at Second National Department of Veterans Affairs Rehabilitation Research and Development Conference The Next Generation,@ Alexandria, VA.
- Taub, E. (March, 2000). Constraint-Induced Movement Therapy- a new family of treatments in rehabilitation. Lecture presented at Luriya Institute, Schmieder Klinik, Allensbach, Germany.
- Taub, E. (March, 2000). Defending against the animal rights attack on animal research. Address presented at National Animal Interest Alliance Animal Law Conference, Portland, OR.
- Taub, E. (March, 2000). Constraint-Induced Movement therapy: Neural and behavioral mechanisms underlying the neurorehabilitation treatment effect. Colloquium presented at the University of Michigan, Ann Arbor.
- Taub, E. (April, 2000). Massive cortical reorganization following CI therapy correlated with recovery of motor function after stroke. Colloquium presented at the University of Oregon, Eugene.
- Taub, E. (May, 2000). Rehabilitation- New approach. Lecture presented at American Heart Association: Stroke Update 2000 Conference, Birmingham, AL.
- Taub, E. (June, 2000). Massive cortical reorganization resulting from CI therapy, an efficacious new treatment in rehabilitation. Colloquium presented at University of Verona, Italy.
- Taub, E., Miltner, W.H.R., and Elbert, T. (August, 2000). Co-organizers of The Impending Paradigm shift in Neurorehabilitation and Remediation: The Melding of Basic Research in Neuroscience and Behavioral Science to Produce Advances in Therapeutics. Conference sponsored by The McDonnell Foundation, San Francisco.
- Taub, E. (September, 2000). CI therapy to improve motor ability in young children with neuromotor disorders and juvenile monkeys given intra-uterine or day-of-birth forelimb deafferentation. Invited lecture at Pediatric Motor Disorders Conference, Toronto, Canada.
- Taub, E. (October, 2000). Constraint-induced movement therapy: Clinical results, applications and effect on brain activity. Invited lecture at Jim Thorpe Rehabilitation Hospital, Oklahoma City, OK.
- Taub, E. (October, 2000). Plasticity in the adult nervous system exemplified by massive cortical reorganization produced by an efficacious new neurorehabilitation treatment. Grand rounds, Department of Psychiatry, University of Alabama at Birmingham.
- Taub, E. (October, 2000). CI Therapy: Massive cortical reorganization resulting from the treatment and new applications. Grand rounds, Department of Physical Medicine and Rehabilitation, University of Alabama at Birmingham.

- Taub, E. (November, 2000), Massive cortical reorganization resulting from CI therapy: An efficacious new treatment in neurorehabilitation. In T. Elbert (Chair) From Neuroplasticity to Rehabilitation in Adult Brain. Symposium presented at the Society for Neuroscience meeting, New Orleans.
- Taub, E. (November, 2000). CI therapy: Development of the approach and its role in cortical reorganization. In S. Wolf (Chair) The Application of Constraint-Induced (CI) Movement Therapy for Patients with Stroke. Symposium presented at American Academy of Physical Medicine and Rehabilitation meeting, San Francisco.
- Taub, E. (December, 2000). Recent research on CI therapy: An update. Colloquium presented at University of Alabama, Tuscaloosa, AL.
- Taub, E. (February, 2001). Behavioral components of Constraint-Induced Movement therapy. Division of Physical Therapy & Department of Psychology, UAB and Physical Medicine and Rehabilitation Service, Birmingham Veterans Administration Medical Center, Birmingham, AL.
- Taub, E. (February, 2001), Taub Training: Striking advances in rehabilitative medicine. Invited lecture at University of Alabama Board of Trustees presentation, Birmingham, AL.
- Taub, E. (February, 2001). Massive cortical reorganization resulting from CI therapy: An efficacious new treatment in neurorehabilitation. In J. McClelland (chair) How the Brain Learns: From Synapses to Cognition and Behavior. Symposium presented at the American Association for Advancement of Science meeting. San Francisco.
- Taub, E. (March, 2001). Stroke rehabilitation: Constraint-Induced Movement therapy. Invited address presented at Division of Rehabilitation Psychology, American Psychological Association meeting, Atlanta, GA.
- Taub, E., & Wolf, S. (March, 2001). CI Movement therapy: Efficacious behavioral treatment for motor disability after stroke. In: A. McGrady (Chair) Collaboration Between Primary Care and Applied Psychophysiology: Research, Education & Service. Symposium presented at Association for Applied Psychophysiology & Biofeedback meeting, Raleigh-Durham, NC.
- Taub, E. (April, 2001). CI Movement therapy: A new family of treatments in rehabilitation medicine. Grand Rounds at University of Tennessee, Memphis, TN.
- Taub, E. (April, 2001). CI therapy: An update. Annual lecture presented at Zeigler Forum at University of Vermont, Burlington, VT.
- Taub, E. (April, 2001) . Hypertonic symptoms in children. Conference at NIH Neuroscience Center, Bethesda, MD.
- Taub, E. (June, 2001). CI therapy update. Invited lecture presented at Alabama Physical Medicine and Rehabilitation Society meeting, Birmingham, AL.
- Wolf, S., Taub, E., & Weinstein, C. (June, 2001). CI therapy: Clinical results and effect on brain organization. In: S. Wolf (Chair) CI Movement therapy: The EXCITE trial. Symposium at Annual Conference and Exposition of the American Physical Therapy Association. Anaheim, CA.
- Taub, E. (June, 2001). CI therapy: Clinical results and effect on brain organization. Address presented at Canadian Physical Medicine and Rehabilitation meeting. Halifax, Nova Scotia.
- Taub, E. (June, 2001). Constraint-Induced Movement therapy. Keynote Address at Society for Research in Rehabilitation Annual Meeting, Manchester, UK.
- Taub, E. (June, 2001). CI therapy: Clinical results and effect on brain organization. Keynote Lecture at conference on Constraint-Induced Therapy & Recovery from Stroke, University of London, Institute of Neurology, London, England.
- Taub, E. (July, 2001). The impending paradigm shift in neurorehabilitation and remediation. In E. Taub, W.H.R. Miltner, and T. Elbert (chairs) The Impending Paradigm Shift in Neurorehabilitation and Remediation: The Melding of Basic Research in Neuroscience and Behavioral Science to Produce Advances in Therapeutics. Conference sponsored by The McDonnell Foundation, San Francisco, CA.

- Taub, E. (July, 2001). Basic principles of CI therapy: Bridging animal and human research. In E. Taub, W.H.R. Miltner, and T. Elbert (chairs) *The Impending Paradigm Shift in Neurorehabilitation and Remediation: The Melding of Basic Research in Neuroscience and Behavioral Science to Produce Advances in Therapeutics*. Conference sponsored by The McDonnell Foundation, San Francisco, CA.
- Taub, E. (August, 2001). CI therapy: An overview. Annual Leonard Diller Honorary Lecture at American Psychological Association meeting. San Francisco, CA.
- Taub, E. (October, 2001) . Improved motor recovery after stroke and massive cortical reorganization following Constraint-Induced Movement therapy. Conference on Motor Recovery After Stroke: Exploring the Science of Neural Growth, Plasticity & Rehabilitation. Rehabilitation Institute of Chicago, Chicago, IL.
- Taub, E. (December, 2001). CI therapy: A new behavioral intervention in neurorehabilitation and its effect on brain organization. Colloquium at New York University, New York, NY.
- Taub, E. (May, 2002). Origins of CI Therapy. Guest Speaker at OKU Banquet, Honorary Dental Society, Birmingham, AL.
- Taub, E. (May, 2002). Constraint-Induced Movement therapy. Guest Speaker at Stroke Update 2002 Conference, Birmingham, AL.
- Taub, E. (June, 2002). Theoretical basis and scientific evidence for CI therapy. In D. Morris (Chair) *CI Movement Therapy (CI Therapy): Clinical applications*. Symposium at American Physical Therapy Association meeting, Cincinnati, OH.
- Taub, E. (June, 2002). Conceptual basis of CI therapy for childhood neuromotor disorders and precursor work with prenatal and day-of-birth operated monkeys. In K. Echols (Chair) *CI Movement Therapy for Children with Neuromotor Disabilities*. Symposium at American Physical Therapy Association meeting, Cincinnati, OH.
- Taub, E. (June, 2002). Translating an efficacious neurorehabilitation intervention from the bench to the bedside. In B. McCandliss (Chair) *Putting Theory Into Practice - The Ultimate Complex System*. Symposium at McDonnell Foundation Advisory Board & Program meeting, Tarrytown, NY.
- Taub, E. (September, 2002) . CI therapy: Bridging from the primate laboratory to the stroke rehabilitation clinic. In: B. Johansson (Chair) *Neurobiological Background to Rehabilitation Plasticity, Motor Control, Spasticity & Pain Modulation*. Symposium at Neurological Background to Rehabilitation Conference, Gutenberg, Sweden.
- Taub, E. (September, 2002). CI therapy with cerebral palsy in adults after neurological injury. Invited lecture at American Academy for Cerebral Palsy & Developmental Medicine meeting. New Orleans, LA.
- Taub, E. (October, 2002). Constraint Induced Therapy. Invited lecture at American Society Neurorehabilitation meeting.
- Taub, E. (November, 2002). Constraint-Induced Movement therapy: Clinical results and effect on brain organization. Suny Downstate Medical Center, Brooklyn, NY.
- Taub, E. (May, 2003). Harnessing the opposing effects of two different types of reorganization as a basis for new treatments for chronic conditions. Keynote speaker at Canadian Pain Society, Toronto, Canada.
- Taub, E. (April, 2003). CI therapy: A new family of neurorehabilitation techniques and their effect on brain organization. In E. Taub (Chair), *Remodeling of the Brain Underlies the Success of Behavioral Therapies for Motor Dysfunction*. American Physiological Society, San Diego, CA.
- Taub, E. (August, 2003). CI therapy: A new behavioral intervention in neurorehabilitation and its effect on brain organization - - from laboratory to human clinic. Neal Miller Distinguished Research Lecture, American Psychological Association, Toronto, Canada.
- Taub, E., Miltner, W. H. R., Uswatte, G., Splittgerber, R. , & Jannett, T, (October, 2003). A device for objectively determining patient compliance with home training during Constraint-Induced

- Movement (CI) therapy. In G. Uswatte (Chair), Ambulatory Monitoring of Functional Activity and Treatment, Symposium conducted at the Annual Meeting of the American Congress of Rehabilitation Medicine, Tucson, AZ.
- Taub, E. (February, 2004). Quantification of hypertonia: State of the art and future directions. In T. Sanger (Moderator), NIH Taskforce on Childhood Motor Disorders, Dallas, TX.
- Taub, E. (July, 2004). CI therapy: Behavioral treatment that harnesses brain plasticity after neurological injury. Address associated with 2004 Distinguished Scientific Contribution for the Applications of Psychology, American Psychological Association, Honolulu, HI.
- Taub, E. (September, 2004). Implementation of multi-site national clinical trial in rehabilitation: Lessons from EXCITE. , In C. Winstein (Chair), Overcoming the Barriers to Implementation of a Multisite Rehabilitation Clinical Trial: Experience from EXCITE and PT Clinic Res Net. ACRM-ASNR Joint Annual Conference, Jacksonville, FL.
- Hallett, M., & Taub, E. Co-organizers. (December 2004). Workshop on Rehabilitation for the Treatment of Dystonia, Dystonia Medical Research Foundation, Baltimore, MD.
- Taub, E. (January, 2005). Lessons from stroke therapy. In M. Hallett (Chair), Rehabilitative Approaches to Dystonia Treatment, Dystonia Medical Research Foundation, Atlanta, GA.
- Taub, E. (March, 2005). Inappropriate task planning. In M. Hallett (Moderator), NIH Taskforce on Childhood Motor Disorders, Washington, DC.
- Taub, E. (March, 2005). CI therapy: Harnessing brain plasticity to improve movement after stroke and other brain damage. Keynote Address at Association for Applied Psychophysiology and Biofeedback meeting, Austin, TX.
- Taub, E. (March, 2005). To blush with one ear and blanch with the other. In E. Coons (Chair), The Heart and Soul of Our Science: The Legacy of Neal Miller (1909 – 2002). Association for Applied Psychophysiology and Biofeedback meeting, Austin, TX.
- Taub, E. (March, 2005). Plastic brain reorganization and learning. Keynote Address at Claude Bernard Club meeting, Austin, TX.
- Taub, E. (April, 2005). CI therapy: A rehabilitation therapy that harnesses brain plasticity after neurological injury. Brain Injury Conference on Biomechanics and Physiological Impact of Traumatic Brain Injury, Memphis, TN.
- Taub, E. (March, 2005). To blush with one ear and blanch with the other. In E. Coons (Chair), The Heart and Soul of Our Science: The Legacy of Neal Miller (1909 – 2002). Association for Applied Psychophysiology and Biofeedback meeting, Austin, TX.
- Taub, E. (March, 2005). Plastic brain reorganization and learning. Keynote Address at Claude Bernard Club meeting, Austin, TX.
- Taub, E. (March, 2005). CI therapy: Harnessing brain plasticity to improve movement after stroke and other brain damage. Keynote Address at Association for Applied Psychophysiology and Biofeedback meeting, Austin, TX.
- Taub, E. (August, 2005). Neurology Lecture Series for Residents. Two lectures of CI Therapy, UAB Neurology Department, Birmingham, AL.
- Taub, E. (September, 2005) CI Therapy: Behavioral Treatment that Harnesses Brain Plasticity after Neurological Injury. UAB Biomedical Engineering Seminar Series, Birmingham, AL.
- Taub, E. (January, 2006). Defining a Scale for Developmental Dyspraxia. In T. Sanger (Moderator). NIH Taskforce on Childhood Motor Disorders, Bethesda, MD.
- Taub, E. (February, 2006). Behavioral and Physiological Measures in the EXCITE Multi-site Randomized Control Trial of CI Therapy. American Physical Therapy Association Combined Sections Meeting, San Diego, CA.
- Taub, E. (February, 2006). Pediatric CI therapy. In Section on Pediatric Neurological Rehabilitation. 4th World Congress of NeuroRehabilitation, Hong Kong.

- Ayers, J., Rulkow, N., Taub, E., Knudsen, D., Kim, Y., Selverston, A., & Uswatte, G. (2006, May). Electronic neurons: From biomimetic robots to blast neurorehabilitation. Paper presented at the Seventh International Symposium on Technology and the Mine Problem.
- Taub, E. "CI Therapy: Harnessing brain plasticity to improve the rehabilitation of movement after damage to the CNS." Grass Traveling Scientist Lecture (Western NC Chapter of the Society for Neuroscience). (November, 2006) Wake Forest University School of Medicine, Winston-Salem, NC.
- Taub, E. "Pediatric CI therapy: Results and mechanisms." 4th World Congress for NeuroRehabilitation. (February, 2006) Hong Kong.
- Taub, E. "CI therapy: A neurorehabilitation treatment that harnesses brain plasticity after neurological injury." Southeastern Clinical Club (February, 2007)
- Uswatte, G., Taub, E., & Miltner, W. "CI therapy: What's next?" Symposium presented at American Congress of Rehabilitation Medicine (ACRM) Joint Conference (October, 2007) Washington, D.C.
- Morris, D., Taub, E., & Uswatte, G. "Constraint-Induced Movement therapy for extremity recovery: Resolving common misperceptions." Symposium presented at Combined Sections Meeting (CSM) of the American Physical Therapy Association (February, 2008) Nashville, TN.
- Taub, E. "CI therapy: A neurorehabilitation treatment that harnesses brain plasticity after neurological injury" Children's Neurological Society (February, 2008) Houston, TX.
- Taub, E. "Neuroplasticity: Harnessing the remodeling of the brain to produce new treatments for refractory conditions in humans." Spring Brain Conference (March, 2008) Palm Springs, CA.
- Taub E. "CI therapy: A neurorehabilitation treatment that harnesses brain plasticity after neurological injury" Workshop on CI therapy at American Occupational Therapy Association (April, 2008) Long Beach, CA.
- Taub, E. "CI therapy: A neurorehabilitation treatment that harnesses brain plasticity after neurological injury" Tuscaloosa VA Medical Center (April, 2008) Tuscaloosa, AL.
- Taub, E. (April 2008). Origin and history of CI therapy. In Institute on Constraint-induced movement therapy (CI therapy): Linking research, education and practice. American Occupational Therapy Association, Houston, TX.
- Taub, E. (November 2008). Parallels between CI therapy and treatments for amblyopia. Society for Neuroscience, Symposium on Amblyopia, Washington, D.C., November, 2008.
- Taub, E. (March 2009). CI therapy as a means of harnessing brain plasticity to produce new treatments in neurorehabilitation. Medical University of South Carolina. Grand Rounds.
- Taub, E., (April 2009). You can teach an old dog new tricks: CI therapy as a family of treatments in neurorehabilitation. Northeastern University Lecture.
- Taub, E., Morris, D. (March 2010). CI Therapy for TBI. IBIA Conference, Washington, D.C.
- Mark, V., Taub, E., Cutter, G., Bashir, K., Uswatte, G., Bowman, M., & McKay, S. (2010, June). The measurement of upper extremity learned nonuse in progressive multiple sclerosis. Poster presented at the 15th Annual Meeting of the Committee for Treatment and Research in Multiple Sclerosis, San Antonio, TX.
- Taub, E. CI therapy for the treatment of TBI. (February 2010). Keynote address. International Brain Imaging Assoc., Washington, D.C.
- Taub, E. CI therapy and harnessing brain plasticity in Neurorehabilitation. (November 2009) Keynote address. German Stroke Soc. and Berlin Stroke Competence Net, Berlin.
- Taub, E. and Morris, D.M. The Use of CI therapy in TBI. (February 2010). Workshop presented at International Brain Imaging Assoc., Washington, D.C.
- Taub, E. CI therapy: A method for harnessing brain plasticity to produce new treatments in neurorehabilitation. (March 2010). Invited talk. Neural Correlates of Object Recognition and Action Workshop, Georgia Tech, Atlanta

- Gauthier, L. Taub, E. Barghi, A., Uswatte, G., Mark, V. (April 2010). Structural correlates of decreased arm use after chronic stroke. Substitution for E. Taub. Invited talk. Changing People, Changing Brains Conf., Univ. of Konstanz, Germany.
- Taub, E. The continuing war on animal research. (May 2010). Invited address and award recipient. Annual meeting of National Animal Interest Alliance, Washington, D.C.
- Taub, E. Co-Director of 2 UAB Workshops on CI therapy. (November 2009, March 2010) It is attended by professionals from the U.S.A. and other countries.
- Taub, E. Co-chair, (March, 2010), Neal E. Miller Centennial Commemoration program. Assoc. of Applied Psychophysiol. Biofeedback, San Diego, CA.
- Taub, E. (March 2010). What Psychology as a science owes to Neal Miller. Assoc. of Applied Psychophysiol. Biofeedback, San Diego, CA.
- Taub, E. (October, 2010). Pediatric CI therapy: Results and mechanisms. Invited address presented at Symposium on Neurobiology of Disease in Children, Child Neurology Society Meeting, Providence, RI.
- Taub, E. CI therapy: A rehabilitation treatment that harnesses neuroplasticity to improve motor function after CNS damage. Grand Rounds presented at Univ. South Carolina School of Medicine.
- Taub, E. (2011, October). Keynote Speaker, Dosing and Motor Learning for Children with an Injured Brain or Cerebral Palsy. Pediatric Research Summit, American Physical Therapy Association, Section on Pediatrics, Alexandria, VA.
- Taub, E. (2011, October). Course Director, Expanding the Conditions that Respond to CI Therapy: Cerebral Palsy, Multiple Sclerosis, and Severe Stroke. Symposium conducted at Annual Meeting of the American Congress of Rehabilitation Medicine, Atlanta, GA.
- Taub, E. (2012, November). Constraint Induced Movement Therapy: A Neurorehabilitation Treatment that Harnesses Neuroplasticity. Undergraduate Neuroscience Colloquium,
- Taub, E. (2013, March). CI Therapy: Promoting Acceptance of Efficacious Behavior Analysis Interventions by Clinical Communities. Sarasota Symposium on Behavior Analysis. Sarasota, FL

SESSIONS AND SYMPOSIA CHAIRED AT PROFESSIONAL SOCIETY MEETINGS: 1974-1980

- Taub, E. (1974). Human perception. Paper session presented at the Eastern Psychological Association meeting, Philadelphia.
- Taub, E. (1974). Behavioral and physiological effects of transcendental meditation. Symposium conducted at the meeting of the American Psychological Association, New Orleans.
- Taub, E. (1974). Feedback-aided self-regulation of skin temperature. Symposium conducted at meeting of the Biofeedback Research Society, Colorado Springs.
- Taub, E. (1975). Primate learning. Paper session presented at the meeting of the Eastern Psychological Association, Philadelphia.
- Taub, E. (1975). Workshop on temperature self-regulation. Presented at Biofeedback Training Workshop for Professionals, sponsored by Biofeedback Research Society, Monterey.
- Taub, E. (1975). Some methodological issues in the training of self-regulation of skin temperature. Symposium conducted at the meeting of the Biofeedback Research Society, Monterey.
- Taub, E. (1976). Biofeedback approaches to the therapy of Raynaud's disease. Panel discussion conducted at the meeting of Biofeedback Research Society, Colorado Springs.
- Taub, E. (1976), Transcendental meditation: New research on psychological and physiological effects. Symposium conducted at the meeting of the American Psychological Association, Washington, D. C.

- Taub, E. (1976). Behavioral and physiological effects of transcendental meditation. Symposium conducted at the meeting of the Biofeedback Society of America, Orlando.
- Taub, E. (1977). Neuromuscular reeducation. Organized two day workshop at the meeting of the Biofeedback Society of America, Orlando.
- Taub, E. (1978). Biofeedback in neuromuscular reeducation. Symposium conducted at the meeting of the Biofeedback of America, Albuquerque.
- Taub, E. (1978). Neuromuscular reeducation. Organized two day workshop at meeting of the Biofeedback Society of America, Albuquerque.
- Taub, E. (1978). Vasoconstrictive disorders, Special interest lunch at the meeting of the Biofeedback Society of America, Albuquerque.
- Taub, E. (1978). Leo V. DiCara Memorial Citation Papers: Presentations of significant experimental and clinical studies. Chaired session and read eulogy at the meeting of the Biofeedback Society of America, Albuquerque.
- Taub, E. (1979). Fifth Annual Biofeedback Society of America Workshop for Professionals. Co-Chairman of workshop, Danvers, Massachusetts.
- Taub, E. (1980). Self-regulation of physiological response systems through biofeedback: Basic research and clinical applications. Symposium conducted at AAAS meeting, San Francisco, 1980.

**OFFICIAL ACTIVITIES ON BEHALF OF THE BIOFEEDBACK SOCIETY OF AMERICA AS
CHAIRPERSON OF DIFFERENT COMMITTEES:**

- Testified before Senator Stennis' Senate Subcommittee on Defense of the Committee on Appropriations requesting inclusion of biofeedback in the CHAMPUS Basic Benefits Program. These hearing resulted in a directive in legislation for CHAMPUS to include biofeedback in their Basic Benefits Program, 1978.
- Chaired negotiations with CHAMPUS to include biofeedback in their Basic Benefits Program, 1979-1981.
- Appeared before the AAAS Council Committee on Affiliated Societies that agreed to accept the Biofeedback Society of America as an Affiliated Society, 1978.

PAPERS AND POSTERS AT MEETINGS 1981-PRESENT

11 papers not listed here were presented from 1974-1980. The abstracts listed here for 1994 to present are a selection of approximately one-quarter of those presented in those years.

- Player, W. O., & Taub, E. (1981). Effects of hypnosis on thermal biofeedback. Paper presented at the meeting of the Society for Psychophysiological Research, Washington, D.C.
- Taub, E., Spalding, T., & Kunz, J. (1981). Precise anatomical localization of thermal biofeedback self-regulation around different feedback loci on the hand in humans. Paper presented at the meeting of the Society for Neuroscience, Los Angeles.
- Taub, E., Spalding, T. W., Gruber, B. L., & Kunz, J. (1981). Raynaud's disease and thermal biofeedback: Precise anatomical localization of self-regulation effect around feedback loci on the hand. Paper presented at the meeting of the Society for Psychophysiological Research, Washington, D.C.
- Gruber, B. L., School, P. J., & Taub, E. (1981). Thermal and EMG biofeedback training in nonhuman primates. Paper presented at the meeting of the Society for Neuroscience, Minneapolis.

- Yakalis, G., & Taub, E. (1982). Effect of chronic somatosensory deafferentation and darkness on self-directed behaviors and their relation to self-injury in monkeys. Paper presented at the meeting of the Society for Neuroscience, Minneapolis.
- McCulloch, K., Cook, E. W. III, Fleming, W. C., Novack, T. A., & Taub, E. (1988). A reliable test of upper extremity ADL function. *Archives of Physical Medicine and Rehabilitation*, *69*:755. (Abstract)
- Taub, E. (October, 1988). Overcoming learned nonuse as an approach to the rehabilitation of movement following neurological impairment: The short step from the primate deafferentation laboratory to man. Birmingham Chapter of the Society for Neuroscience, Birmingham.
- Taub, E. (January, 1989). Techniques for overcoming learned nonuse following stroke. Grand Rounds, Department of Rehabilitation Medicine, University of Alabama at Birmingham, Birmingham, AL.
- Cook, E. W. III, Anshasi, B., McCutcheon, M., Whitehead, W. E., & Taub, E. (1989). Electromyographic detection of deglutition. (Abstract). *Proceedings of the American Motility Society*.
- Taub, E. (1990, November). Overcoming learned nonuse as a new technique for the rehabilitation of movement following stroke: The short step from the primate laboratory to the clinic. Talk presented at the meeting of the Alabama Behavioral Medicine Association, Birmingham.
- Taub, E. (1991, September). Overcoming learned nonuse as a new approach to the rehabilitation of movement following neurological injury: The short step from the Silver Spring monkeys to the clinic. Colloquium presented at West Virginia University Health Sciences Center, Morgantown.
- Taub, E., Cuevas, J., Cook, E., Crowell, M., & Whitehead, W. (1992, May). Gastrointestinal symptoms in 1384 college students: Gender and race differences. Paper presented at the meeting of the American Gastrointestinal Association, San Francisco.
- Cuevas, J., Cook, E. W. III, Richter, J., McCutcheon, M., & Taub, E. (1992, October). Differential air swallowing rates induced by different levels of Psychophysiological arousal. Paper presented at meeting of Society for Psychophysiological Research, San Diego.
- Cuevas, J., Cook, E. W. III, Richter, J. E., McCutcheon, M., Taub, E. (1993, May). Emotional distress, relaxation and air swallowing rate: A possible etiological mechanism in some gastrointestinal disorders. Papers presented at the meeting of the American Gastroenterological Association, Boston, MA.
- Cook, E. W. III, Taub, E., Cuevas, J. L., Morris, R. L., Perkins, M. H., Tanner, D. L., Noell, R. P., Hanna, B., Brown, M. A., & Whitehead, W. E. (1993, May). Factor analysis of bowel symptoms: Replication in 2045 students. Boston, MS.
- Whitehead, W. E., Li, Z., Drossman, D., Costa, P., Taub, E., & Cook, E. W. III (1994, May). Factor analysis of G.I. symptoms supports Rome criteria for functional G.I. disorders. Paper read at the meeting of the American Gastroenterological Association, New Orleans.
- Crago, J. E., & Taub, E. (1994, June). A technique for improving chronic motor impairment after CVA by overcoming learned nonuse. Paper presented at the American Physical Therapy Association Meeting, Toronto.
- Hoehling, C., Knecht, S., Henningsen, H., Elbert, T., Flor, H., Deppe, M., & Taub, E. (1995, July). Conference on brain plasticity. Dusseldorf, Germany.
- Taub, E., Cook, E.W. III, Burnett, C., Cuevas, J., Morris, R., Perkins, M., Tanner, D., Noell, E., Hanna, B., Brown, M., & Whitehead, W.E. (1994, September). Irritable bowel syndrome: Do physical symptoms or psychological symptoms determine who consults a physician? Paper read at the American College of Gastroenterology Meeting, San Francisco.
- Burnett, C., Taub, E., Cook, E.W. III, & Whitehead, W.E. (1995, April). Coping with irritable bowel syndrome: Analgesic and other medication use by IBS patients and IBS nonconsulters. Paper presented at American Gastroenterological Association Meeting, Houston.

- Hoehling, C., Knecht, S., Henningsen, H., Elbert, T., Flor, H., Deppe, M., & Taub, E. (1995, July). Plasticity of referred sensation after amputation. Paper presented at Conference on Brain Plasticity. Dusseldorf, Germany.
- Knecht, S., Henningsen, H., Hoehling, C., Flor, H., Elbert, T., & Taub, E. (1996, June). Instability of reorganized sensory processing after amputation. Paper read at First Berlin Workshop on Cortical Plasticity, Berlin.
- Muehlnickel, W., Elbert T., Taub, E., & Flor, H. (1996, June). Cortical reorganization in tinnitus. Paper read at First Berlin Workshop on Cortical Plasticity, Berlin.
- Muehlnickel, W., Elbert, T., Taub, E., & Flor, H. (1996, June). Cortical reorganization in tinnitus. Paper read at First Berlin Workshop on Cortical Plasticity, Berlin
- Denke, C. Flor, H., & Taub, E. (1996, June). Modification of phantom limb pain and cortical reorganization by behavioral intervention. Paper read at First Berlin Workshop on Cortical Plasticity, Berlin.
- Kunkel, A., Kopp, B., Platz, T., Mauritz, K.H., Gresser, K., Rose, U., McCulloch, K.L., & Taub, E. (1996, June). The Arm Motor Ability Test (AMAT): Reliability, validity, and sensitivity to change of an instrument for assessing disabilities in the activities of daily living. Paper read at First Berlin Conference on Cortical Plasticity, Berlin.
- Crago, J.E., Morris, D.M., Pidikiti, R.D., Uswatte, G., DeLuca, S.D., Goode, S.C., Batchelor, J.K., Chatterjee, A., & Taub, E. (1996, October). Intensive physical therapy as a means of substantially increasing use of the affected arm in chronic stroke patients: Results at 4-week follow up. Paper read at Stroke Rehabilitation Conference, Cambridge, MA.
- Taub, E., Pidikiti, R.D., DeLuca, S.C., Uswatte, G., & Crago, J.E. (1996, November). Constraint Induced (CI) Movement: A family of therapies for increasing upper extremity use after CNS damage in monkeys and humans. Paper read at Society for Neuroscience meeting, Washington, D.C.
- Sommer, M., Bauder, H., Miltner, W., & Taub, E. (1997, March). Ein neues psychologisch - rehabilitatives Behandlung fuer Schlaganfallpatienten. Paper presented at German Society of Behavioral Medicine meeting, Jena, Germany.
- Sterr, A., Mueller, M.M., Elbert, T., Rockstroh, B. & Taub, E. (1997, May). Expansion of cortical hand representation and tactile sensory thresholds in blind Braille readers: A link between cortical reorganization and perception. European Congress of Psychophysiology, Konstanz, Germany. Designated one of 6 "Hot Papers of the Year".
- Koelbel, S., Elbert, T., Rockstroh, B., Sterr, A., Jahn, T., & Taub, E. (1997, May). Constraint-Induced Movement Therapy under German conditions. Paper read at European Congress of Psychophysiology; Konstanz, Germany.
- Uswatte, G., Miltner, W., Spraggins, S., Moran, S., Walker, H., Calhoun, J., Beatty, C., & Taub, E. (1997, August). Accelerometers in rehabilitation: Objective measurement of extremity use at home. Paper presented at American Psychological Association meeting, Chicago.
- Uswatte, G., Miltner, W., Spraggins, S., Moran, S., Walker, H., Calhoun, J., & Taub, E. (1997, September). Validity and reliability of accelerometry as an objective measure of upper extremity use at home. Paper presented at American Congress of Rehabilitation Medicine meeting, Boston.
- Miltner, W.H.R., Braun, Ch., Arnold, M., & Taub, E. (1997, October). Coherence of gamma-band activity as a basis for associative learning. Paper presented at Society for Neuroscience meeting, New Orleans.
- Sterr, A., Mueller, M.M., Elbert, T., Rockstroh, B., & Taub, E. (1997, November). Expansion of cortical hand representation and tactile sensory thresholds in blind Braille readers: A link between cortical reorganization and perception. Paper presented at Second Berlin Conference on Cortical Plasticity, Berlin.
- Denke, C., Flor, H., & Taub, E. (1997, November). Training-induced modification of phantom limb pain. Paper presented at Second Berlin Conference on Cortical Plasticity, Berlin.

- Gruesser, S., Muehlnickl, W., Taub, E., & Flor, H. (1997, November). Longitudinal study of the development of cortical reorganization and phantom phenomena. Paper presented at Second Berlin Conference on Cortical Plasticity, Berlin.
- Kunkel, A., Kopp, B., Taub, E., & Flor, H. (1997, November). Constraint-induced facilitation of movement in patients after central nervous system lesions. Paper presented at Second Berlin Conference on Cortical Plasticity, Berlin.
- Flor, H., Elbert, T., Birbaumer, N., & Taub, E. (October, 1997). Functional significance of cortical reorganization. Paper presented at Society for Neuroscience meeting, New Orleans.
- Elbert, T., Rockstroh, B., Cohen, R., Flor, H., & Taub, E. (November, 1997). Examples of deviant cortical reorganization in humans - magnetoencephalographic investigations. Paper presented at Second Berlin Conference on Cortical Plasticity, Berlin.
- Kunkel, A., Kopp, B., Flor, H., & Taub, E. (November, 1997). Elektrophysiologische Korrelate der motorischen Funktionswiederherstellung. Paper presented in M. Hermann (Chair) Motorische Stoerungen. Symposium presented at the Society for Neuropsychology, Bad Wildungen.
- Bauder, H., Sommer, M., Miltner, W., & Taub, E. (November, 1997). Vorstellung eines neues psychologischen rehabilitativen Trainings programms fuer Patienten nach zerebro-vasculaeren Schlaganfall. In M. Hermann (Chair) Motorische Stoerungen. Symposium presented at the Society for Neuropsychology, Bad Wildungen.
- Sterr, A., Mueller, M., Elbert, T., Rockstroh, B., & Taub, E. (September, 1997). Cortical reorganization and perceptual changes in experienced blind Braille readers and blind Braille students. Paper presented at Japanese Society of Neuroscience, Tokyo. (Paper won the Society's young investigator award for A. Sterr.)
- Sterr A., Mueller, M., Elbert, T., Rockstroh, B., Pantev, C., & Taub, E. (November, 1997). Alteration of cortical representation and perceptual accuracy in blind Braille readers. Paper presented at Second Berlin Conference on Cortical Plasticity, Berlin.
- Taub, E., Pidikiti, R.D., Crago, J.E., DeLuca, S.C., & Uswatte, G. (September, 1998). Constraint-Induced (CI) Movement Therapy: A family of procedures for increasing upper extremity use after CNS damage in monkeys and humans. Poster presented at the Inaugural Meeting of the Program in Cognitive Rehabilitation of the James S. McDonnell Foundation, St. Louis, MO.
- Sterr, A., Rockstroh, B., Elbert, T., Mueller, T., Pantev, C., & Taub, E. (September, 1998). Evidence for an expansion of the tonotopic map in the auditory cortex of blind persons. Paper presented at the Society for Psychophysiological Research meeting, Denver. *J. Psychophysiol.*, 35, 580. (Abstract)
- Uswatte, G., & Taub, E. (October, 1999). Other explanations. Letter published in *American Psychological Association Monitor*, p. 5.
- Uswatte, G., Varma, M., Sharma, V., Spraggins, S., & Taub, E. (November, 1998). Validity and reliability of accelerometry as an objective measure of upper extremity use at home. Poster presented at the annual convention of the American Congress of Rehabilitation Medicine, Seattle, WA. *Arch. Phys. Med. & Rehabil.*, 1998, 79, 1334. (Abstract)
- Taub, E., Pidikiti, R.D., Uswatte, G., Shaw, S., & Yakley, S. (November, 1998). Constraint-Induced (CI) Movement Therapy: Application to lower functioning stroke patients. Paper presented at Society for Neuroscience meeting, Los Angeles.
- Taub, E., & Uswatte, G. (December, 1998). CI Therapy in chronic stroke patients: Induction of use-dependent cortical reorganization in association with greatly enhanced recovery of function. Poster presented at Internet World Congress of Neuroscience; session on Use-Dependent Cortical Reorganization after Brain Injury.
- Wittenberg, G.F., Chen, R., Ishii, K., Croarkin, E., Eckloff, S., Gerber, L., Taub, E., Hallett, M., & Cohen, L.G. (April, 1999). Effect of Constraint-Induced Movement Therapy on motor function and cortical physiology in chronic stroke. Paper presented at Second World Congress on Neurological Rehabilitation, Toronto.

- Morris, D.M., Crago, J.E., Uswatte, G., Wolf, S., Cook, E.W. III, & Taub, E. (April, 1999). The reliability of the Wolf Motor Function Test for assessing upper extremity function following stroke. Paper presented at Second World Congress on Neurological Rehabilitation, Toronto.
- Uswatte, G., Miltner, W.H.R., Newhouse, C., Varma, M., Foo, B., Moran, S., & Taub, E. (August, 1999). Accelerometry: A real-world measure of upper and lower extremity rehabilitation. Paper presented at American Psychological Association meeting, Boston.
- Taub, E., Pidikiti, R.D., Chatterjee, A., Uswatte, G., King, O.K., Bryson, C., Willcutt, C., Jannett, T., Yakley, S., & Spear, M. (October, 1999). CI Therapy extended from upper to lower extremity in stroke patients. Paper read at Society for Neuroscience meeting, Miami Beach.
- Pidikiti, R.D., Crago, J.E., Uswatte, G., Morris, D.M., Shaw, S., DeLuca, S.C., & Taub, E. (February, 2000). CI therapy: A placebo-controlled trial of clinical efficacy for patients with chronic stroke. Poster presented at the 2nd National Veterans Affairs Rehabilitation Research & Development Conference, Arlington, VA.
- Crago, J.E., Uswatte, G., Pidikiti, R.D., DeLuca, S., Shaw, S., Morris, D. & Taub, E. (March, 2000). CI therapy: A placebo controlled trial of clinical efficacy for patients with chronic stroke. Poster presented at Center for Aging, University of Alabama at Birmingham annual conference, Birmingham.
- Wittenberg, G.F., Chen, R., Ishii, K., Croarkin, E., Eckloff, S., Gerber, L.H., Taub, E., Hallett, M., & Cohen, L. (May, 2000). Task-related and resting regional cerebral blood flow changes after Constraint-Induced rehabilitation therapy. Paper presented at American Academy of Neurology Meeting, San Diego.
- Wittenburg, G., Taub, E., Cohen, L., Hallett, M., Chen, R., Ishii, K., Croarkin, E., Eckloff, S., Gerber, L. (April, 2000). Neurophysiology of motor rehabilitation in chronic stroke. Paper presented at American Society of Neurorehabilitation meeting, San Diego.
- Crago, J.E., Yakley, S.R., DeLuca, S.C., Alien, F.V., Pidikiti, R.D., & Taub, E. (June, 2000). Constraint-Induced Movement therapy to improve upper extremity function in lower functioning subjects following stroke: A case study. Poster presented at American Physical Therapy Association meeting, Indianapolis.
- Shaw, S., Morris, D.M., Yakley, S.R., McKay, S.B. & Taub, E. (June, 2000). Constraint-Induced Movement therapy to improve upper extremity function in subjects following traumatic brain injury: A case study. Poster present at American Physical Therapy Association meeting, Indianapolis.
- Taub, E., Uswatte, G., Mark, V., Willcutt, C., Pearson, S., Jannett, T.J., & King, O.K. (October, 2000). CI therapy extended from stroke to spinal cord injured patients. Paper presented at the Annual Convention of the Society for Neuroscience, New Orleans, LA.
- Uswatte, G., Foo, B., Olmstead, H., Myrick, A., & Taub, E. (October, 2000). Objective measurement of arm movement in the community with accelerometry: A real-world index of rehabilitation outcome. Paper presented at American Congress of Rehabilitation Medicine meeting, Hilton Head, SC.
- Pulvermuller, F., Genkinger, B., Elbert, T., Mohr, B., Rockstroh, B., & Taub, E. (November, 2000). Constraint-induced therapy of chronic aphasia following stroke. Poster presented at Society for Neuroscience meeting, New Orleans, LA.
- Echols, K., & Taub, E. (February, 2001). CI movement therapy in young children: Protocol and outcomes compared to traditional measures. Poster presentation at American Physical Therapy Association meeting, San Antonio, TX.
- DeLuca, S., Echols, K., Ramey, S., & Taub, E. (April, 2001). Application of Constraint-Induced Movement therapy to treatment of children's neuromotor disorders. Paper presented at Society for Research in Child Development meeting, Minneapolis, MN.

- Taub, E., Oswatte, G., Mark, V., Bussey, C., Pearson, S., Jannett, T., Bryson, C., & King, D. (November, 2001). CI therapy for lower extremities extended from CNS damage to fractured hip. Poster presented at Society for Neuroscience meeting, San Diego, CA.
- Uswatte, G., Box, L., & Taub, E. (August, 2002). New observation system for measuring arm function in the home. Poster at the Annual Convention of the American Psychological Association meeting, Chicago, IL.
- Taub, E., Ramey, S.L., DeLuca, S., & Echols, K. (November, 2002). Efficacy of CI therapy for children with cerebral palsy. Paper presented at Society for Neuroscience meeting, Orlando, FL.
- Jannett, T., Groom, E., & Taub, E. (2002). Micro-computer based devices for feedback control of Constraint-Induced Movement therapy in lower extremity stroke rehabilitation. Paper presented at Southeastern Symposium on System Theory meeting.
- Uswatte, G., Lopez, K., & Taub, E. (August, 2002). New observation system for measuring arm function in the home. Poster presented at Annual Convention of the American Psychological Association, Chicago, IL.
- Taub, E., Ramey, S., DeLuca, S. & Echols, K. (November, 2002). Efficacy of CI therapy for children with cerebral palsy. Paper presented at Society for Neuroscience, Orlando, FL.
- Charles, J., Wolf, S., Taub, E. & Gordon, A. (September, 2003). Modification of Constraint-Induced Movement therapy for children with hemiplegic cerebral palsy. Paper read at the American Academy of Cerebral Palsy & Developmental Medicine, Montreal, Canada.
- Taub, E., Lum, P., Hardin, P., Schwandt, D., Postman, M., & Uswatte, G. (2003). AutoCITE: Automated delivery of upper extremity CI therapy. Paper presented at Society for Neuroscience meeting, New Orleans, LA.
- Riegle, L., Taft, J., Morris, D., Uswatte, G., Taub, E. (February, 2004). The validity and reliability of the Lower Extremity Motor Activity Log. Poster presented at the American Physical Therapy Association meeting, Nashville, TN.
- Johnson, A., Judkins, L., Morris, D., Uswatte, G., & Taub, E. (February, 2004). The validity and reliability of the 45-item Upper Extremity Motor Activity Log. Poster presented at the American Physical Therapy Association meeting, Nashville, TN.
- Hardin, P., Taub, E., Lum, P., Schwandt, D., Postman, M., & Uswatte, G. (February, 2004). AutoCITE: Automated delivery of upper extremity Constraint-Induced Movement therapy. Poster presented at the American Physical Therapy Association meeting, Nashville, TN.
- Morris, D., Pearson, S. L., Uswatte, G., & Taub, E. (February, 2004). Shaping and task practice: Training procedures used with constraint-induced movement therapy. Poster presented at the American Physical Therapy Association meeting, Nashville, TN.
- Shaw, S., Morris, D., Pearson, S. L., Uswatte, G., McKay, S., & Taub, E. (February, 2004). Adherence to Constraint-Induced Movement therapy procedures and outcome for persons with traumatic brain injury. Poster presented at the American Physical Therapy Association meeting, Nashville, TN.
- Uswatte, G., & Taub, E. (2004). Participant-centered and objective measures of real-world arm function in persons with stroke. Poster presented at American Heart Association 5th Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke, Washington, DC.
- Taub, E., Lum, P., Hardin, P., & Uswatte, G. (October 2004). Remote automated delivery of CI therapy after stroke. Society for Neuroscience, San Diego, CA.
- Johnson, K., Grotta, J., Ford, S., Gaber, M., Ro, T., Noser, E., Boake, C., Wallace, R., Speroni, A., Bernstein, M., Burgin, W.S., Zhand, L., Taub, E. & Levin, H. (February, 2005). Constraint-Induced Movement therapy – preliminary report. Poster presented at American Physical Therapy meeting, New Orleans, LA.
- Mark, V.W., Perkins, C., Taub, E., Uswatte, G. & Nodit, D.C. (April, 2005). Unilateral cerebral peduncular atrophy progresses for decades after stroke. Poster presented at the American Academy of Neurology, Miami Beach, FL.

- Erol, D., Mallapragada, V., Sarkar, N., Uswatte, G., & Taub, E. (June, 2005). A new control approach to robot assisted rehabilitation. Paper presentation at The International Conference on Rehabilitation Robotics, Chicago, IL.
- Mennemeyer, S.T., Taub, E., & Uswatte, G. (July, 2005). Employment experience of adults in households with stroke before and after Constraint-Induced movement therapy. Paper presented at the 5th World Congress of the International Health Economics Association, Barcelona, Spain.
- Mennemeyer, S.T., Taub, E., & Uswatte, G. (July, 2005). Willingness to pay for what? Some evidence from stroke rehabilitation. Poster presented at the 5th World Congress of the International Health Economics Association, Barcelona, Spain.
- Taub, E. (September 10-11, 2005) Rehabilitative Approaches to Dystonia Treatment. Dystonia Medical Research Foundation, Atlanta, GA. (Taub, E. was co-organizer of conference and gave a talk entitled, "Lessons from Stroke Rehabilitation")
- Taub, E., Uswatte, G., Bowman, M., Delgado, A., Bryson, C., Morris, D., Mark, V. W. (2005 Online). Use of CI therapy for plegic hands after chronic stroke Program No. 1012.2 [Abstract]. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience.
- Mark, V., Woods, A., Mennemeier, M., & Taub, E. (September, 2006). Cognitive screening for Constraint-Induced Movement therapy in the outpatient stroke rehabilitation clinic. Paper presented at the American Society of Neurorehabilitation meeting, Chicago, IL.
- Taub, E., Griffin, A., Gammons, K., Nick J., Uswatte, G. & Law, C.R. CI Therapy for Young Children with Congenital Hemiparesis. Poster presented at the Society for Neuroscience 2006, Atlanta, GA.
- Ayers, J., Rulkov, N., Taub, E., Knudsen, D., Kim, Y., Selverston, A. & Uswatte, G. Electronic neurons: From biomimetic robots to blast neurorehabilitation. Proceedings of the Naval Postgraduate School Symposium, 2007.
- Taub, E., Pearson, S., Griffin, A., Gammons, K., Nick, J., Uswatte, G., & Law, C. R. (2007, November). Motor deficit following hemispherectomy treated with pediatric CI therapy: a case study. Poster presented at the Annual Meeting of the Society for Neuroscience, San Diego, CA.
- Taub, E., Uswatte, G., Gauthier, L., Bowman, M., Mark, V., Morris, D., Bryson, C., McKay, S., Barman, J., Delgado, A., & Perkins, C. CI therapy: Factors driving real world gains and neuroplasticity after stroke. Society for Neuroscience, Abstracts, 2008.
- Taub, E., Griffin, A., Lane, B., Goldman, K., Uswatte, G., & Davis, D. (October, 2009). Pediatric CI therapy: use for motor deficit after different types of CNS damage. Poster presented at the Annual Meeting of the Society for Neuroscience, Chicago, IL.
- Taub, E. (February 2010). CI therapy for the treatment of TBI. Keynote address. International Brain Imaging Assoc., Washington, D.C.
- Taub, E. (November 2009). CI therapy and harnessing brain plasticity in Neurorehabilitation. Keynote address. German Stroke Soc. and Berlin Stroke Competence Net, Berlin.
- Taub, E. and Morris, D.M. (March 2010). The Use of CI therapy in TBI, Workshop presented at International Brain Imaging Assoc., Washington, D.C.
- Taub, E. (March 2010). CI therapy: A method for harnessing brain plasticity to produce new treatments in neurorehabilitation. Neural Correlates of Object Recognition and Action Workshop, Georgia Tech, Atlanta.
- Taub, E. (October, 2010). Pediatric CI therapy: Results and mechanisms. Invited address presented at Symposium on Neurobiology of Disease in Children, Child Neurology Society Meeting, Providence, RI.
- Taub, E. The continuing war on animal research. Invited address and award recipient. Annual meeting of National Animal Interest Alliance, Washington, D.C.
- Taub, E. Co-chair, (March, 2010), Neal E. Miller Centennial Commemoration program. Assoc. of Applied Psychophysiol. Biofeedback, San Diego, CA.

- Gauthier, L. Taub, E. Barghi, A., Uswatte, G., Mark, V. (April 2010). Structural correlates of decreased arm use after chronic stroke. Invited talk. Changing People Changing Brains Conf., Univ. of Konstanz, Germany.
- Taub, E., Gauthier, L., Mark, V. W., Barghi, A., & Uswatte, G. (2010, November). Decreased grey matter volume distant from an infarct in chronic stroke predicts magnitude of motor deficit and response to neurorehabilitation. Poster presented at the Annual Meeting of the Society for Neuroscience, San Diego, CA.
- Morris, D.M., Uswatte, G., Taub, E., Mark, V., Barman, J. (November 2010). Test-Retest reliability and validity of the Graded Wolf Motor Function Test. Poster presentation at the American Physical Therapy Association, San Diego, CA.
- Morris, D.M., Uswatte, G., Taub, E., Mark, V., Barman, J. (November 2010). Inter-rater reliability of the Lower Extremity Motor Function Test. Poster presentation at the American Physical Therapy Association, San Diego, CA.
- Taub, E. (2011). CI therapy: A rehabilitation treatment that harnesses neuroplasticity to improve motor function after CNS damage. Grand Rounds presented at Univ. South Carolina School of Medicine.
- Flippo, S., Uswatte, G., Brennan, D., Taub, E., Lum, P. S., Gilmore, B., Bowman, M., McKay, S., Mark, V. W., Dauro, A., Ford, W., & Barman, J. (2011, February). Feasibility of using tele-rehabilitation to deliver Constraint-Induced Movement therapy. Poster presented at Rehabilitation Psychology 2011, Jacksonville, FL.
- Sokal, B., Uswatte, G., Wright, R., Taub, E., Mark, V. W., Morris, D., Brennan, D., Trinh, E., & Barman, J. (2011, February). Correspondence between cardiovascular indices of effort and upper-extremity task difficulty in multiple sclerosis. Poster presented at Rehabilitation Psychology 2011, Jacksonville, FL.
- Sterling, C., Rickards, T., Barghi, A., Graham, A., Smith, E. Taub, E., Mark, V. W., Chandler, A., & Uswatte, G. (2011, February). Corpus callosum measurements indicate motor ability in chronic stroke patients. Poster presented at University of Alabama at Birmingham's Neuroscience Days, 2011, Birmingham, AL.
- Sterling, C., Rickards, T., Barghi, A., Graham, A., Smith, E. Taub, E., Mark, V. W., Chandler, A., & Uswatte, G. (2011, February). Corpus callosum size in chronic stroke is important to spontaneous arm motor recovery. Poster presented at Rehabilitation Psychology 2011, Jacksonville, FL.
- Rickards, T., Sterling, C., Graham, A., Barghi, A., Smith, E. Mark, V. W., Taub, E., & Uswatte, G. (2011, February). Brain volume after stroke predicts response to upper-extremity Constraint-Induced Movement therapy. Paper presented at Rehabilitation Psychology 2011, Jacksonville, FL.
- Taub, E. (2011, May). Constraint-Induced Movement Therapy: an initial example of behavioral neurorehabilitation. Association for Behavioral Analysis International 37th Annual Convention, Denver, CO.
- Brennan, D., Lum, P., Uswatte, G., Taub, E., Gilmore, B., Barman, J. (2011, August). A telerehabilitation platform for home-based automated therapy of arm function. In E. Keshner (Chair), Home Based Systems for Telerehabilitation. Symposium conducted at the 33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society. Boston, MA.
- Sokal, B., Uswatte, G., Wright, R., Taub, E., Mark, V. W., Morris, D., Brennan, D., Trinh, E., & Barman, J. (2011, October). Perceived effort and cardiovascular response to upper-extremity challenge in individuals with multiple sclerosis. Poster presented at the Annual Meeting of the American Congress of Rehabilitation Medicine. Atlanta, GA.
- Taub, E., Griffin, A., Uswatte, G., Gammons, K., Nick, J., & Law, C. R. (2011, October). Treatment of congenital hemiparesis with pediatric Constraint-Induced Movement therapy. Child Neurology Society, Washington, D.C.
- Sterling, C., Taub, E., Davis, D., Rickards, T., Uswatte, G., Gauthier, Griffin, A., Chandler, A., Barghi, A. L., & Mark, V. W. (2011). Constraint-Induced therapy causes structural reorganization in a

- pediatric population with cerebral palsy, Session No. 706 [Abstract]. 2011 Abstract Viewer/Itinerary Planner. Washington DC: Society for Neuroscience.
- Sterling, C., Mark, V. W., Taub, E., Rickards, T., Uswatte, G., Barghi, A., Graham, M., Chandler, A. (2011, October). Corpus callosum size predicts paretic arm spontaneous use and maximal movement ability in chronic stroke. Poster presented at the Annual Meeting of the American Congress of Rehabilitation Medicine. Atlanta, GA.
- Rickards, T., Mark, V., Taub, E., Sterling, C., Uswatte, G., Barghi, A., & Graham, M. (2011, October). Non-infarcted brain volume predicts CI therapy outcomes in chronic stroke. Poster presented at the Annual Meeting of the American Congress of Rehabilitation Medicine. Atlanta, GA.
- Taub, E. (2012, October). CI Therapy: a family of rehabilitation treatments that harnesses the plasticity of the nervous system. South Carolina Neurological Association. Asheville, NC.
- Taub, E., Johnson, M.L., Harper, L.H., Wade, J.T., Haddad, M.M., Mark, V.W., Uswatte, G. (2012, November). An Enhanced Version of CI Aphasia Therapy: CIAT II. American Speech-Language-Hearing Association Convention. Atlanta, GA.
- Taub, E. (2012, November). CI Therapy: a family of rehabilitation treatments that harnesses the plasticity of the nervous system. Kessler Foundation Distinguished Estabrook Research Lecture. Newark, NJ.
- Hicks, J., Rickards, T., Mark, V., Uswatte, G., and Taub, E. (April, 2013). Relationship between hyperintensity status, motor function, and response to CI therapy in adults with stroke. *Poster Presented at the UAB Expo.*
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- Front page article in Washington Post (Sunday, February 26, 1978) on the subject of this investigator's fetal deafferentation research. Picked up by many other newspapers.
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