

## **MICHAEL T. TURVEY**

Center for the Ecological Study of Perception and Action, Department of Psychology, 40  
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Haskins Laboratories, 270 Crown Street, New Haven, CT 06150

### **Education:**

DLC 1963 Physical Education, Loughborough College, England (First Class Honors)

M.A. 1964 Physical Education, Ohio State University

Ph. D. 1967 Experimental and Physiological Psychology, Ohio State University

### **Honors, Awards, Fellowships:**

Wortley Prize, Institute of Education, Nottingham University, 1963

Ohio State University Graduate Student Teaching Excellence Award, 1967

John S. Guggenheim Memorial Foundation Fellowship, 1973

Early Career Award, American Psychological Association, 1974

University of Connecticut Alumni Association Award for Teaching Excellence, 1975

Fellow at Center for Advanced Study in the Behavioral Sciences, Stanford, CA, 1980

The Honored Professor in Humanities and Social Science, University of Connecticut, 1984

James McKeen Cattell Fellowship, 1987

Connecticut Academy of Arts and Sciences (elected 1994)

University of Connecticut Alumni Association Distinguished Professor 1994-1997

Honorary Doctor of Philosophy, Vrije Universiteit, Amsterdam, 1995

Distinguished Scientist Lecturer, American Psychological Association, 1998

Fellow of the Society for Experimental Psychologists (elected 1999)

University of Connecticut Board of Trustees' Distinguished Professor, 2000

American Psychological Foundation F. J. McGuigan Lecturer, 2003

National Science Foundation Distinguished Speaker, 2003

Fellow, Japan Society for the Promotion of Science, 2004

"Ig Nobel" Prize in Physics, 2004

Ohio State University, Department of Psychology, Distinguished Alumnus Award 2006

Chair, Society of Experimental Psychologists 2007

Selection Committee, Connecticut Medal of Science 2007-2011

President of the International Society for Motor Control 2007-2011

Bernstein Prize in Motor Control (International Society for Motor Control) 2009

Lifetime Achievement Award, Society of Experimental Psychologists 2011

Honorary Doctor of Humane Letters, Florida Atlantic University 2011

Glushko-Samuelson Distinguished Cognitive Scientist Award (for Pioneering Research in Cognitive Science), 2012

Ohio University College of Education Human Ecology Career Achievement Award, 2013

Association for Psychological Science (Inaugural) Lifetime Mentor Award, 2013

<http://www.psychologicalscience.org/index.php/video/michael-t-turvey-aps-2013-mentor-award.html>

Marquis Who's Who in America (Science & Engineering), 2017

**Professional Societies:**

International Society for Ecological Psychology  
International Society for Motor Control  
Association for Psychological Science

**Editorial Boards (current)**

Ecological Psychology, Journal of Motor Behavior, Motor Control.

**Grant Reviewer, Grant Review Panels, and Award Committees**

National Science Foundation, National Institutes of Health, Air Force Office for Scientific Research, Israeli NSF, Canadian NSF, Netherlands NSF, Australian NSF, French NSF, NSF Review Panel for "Perception, Action and Cognition", Chair US NSF Steering Committee on Integrated Cognitive Science, APS Lifetime Mentor Award Committee.

**Field of Specialization:**

Cognitive Science

**Research Interests:**

Perception and Action; Reading and Language

**Grants:**

NICHHD Acquisition of the Speech Code and Reading (awarded to Haskins Laboratories), 1970 to 2012 (competitive renewal).

NICHHD Processes Basic to Reading in Serbo-Croatian (with G. Lukatela), 1975 – 1990 (competitive renewal).

ONR Processes of Movement Coordination (awarded to Haskins Laboratories), 1982-1987.

NSF Haptic Perceptual Instruments (with C. Carello), 1987 to 2012 (competitive renewal).

NSF Coordination Dynamics, 1988 to 2007 (competitive renewal).

NSF INSPIRE Grant (J. Dixon, PI) Development of Perception-Action in Non-living, Dissipative Systems, 2013-2016

**Ph.Ds** R. Ingles, Claire Michaels, R. Weeks, S-W Kuo, Edie Sullivan, R. Doost, P. Rubin, R. Remez, Hollis Fitch, Laurie Feldman, M. Kitzman, Betty Tuller, A. Kostic, Y. Solomon, P. Kugler, Dragana Barac-Cikoja, D. Williams, B. Kay, G. Burton, L. Rosenblum, R. Schmidt, C. Pagano, T-C Chan, J. Kinsella-Shaw, P. Treffner, Dagmar Sternad, E. Amazeen, Terri Erwin, A. Peck, D. Collins, S. Mitra, M. Russell, B. Fajen, M. Riley, R. Balasubramaniam, K. Shockley, H. Park, B. Galantucci, S. Harrison, T. Rhodes, Paula Silva, Stacy Lopresti-Goodman, N. Stepp, Stephanie Petrusz, Daniela Vaz.

*Co-advisor:* J. Todd, Carol Fowler, T. Johnston, W. Warren, G. Bingham, D. Todorovic, Mik-Yong Sim, Mira Peter, Polemnia Amazeen, Marie-Vee Santana, D. Tiberio, Geraldine Pellecchia, J. Wagman.

**Positions:**

2008-present	Professor Emeritus, University of Connecticut
1974-2008	Professor, University of Connecticut
1970-present	Research Scientist, Haskins Laboratories
1970-1973	Associate Professor, University of Connecticut
1967-1969	Assistant Professor, University of Connecticut
1967	Lecturer, Ohio State University
1966	Assistant Instructor, Ohio State University
1963-1967	Teaching Assistant, Ohio State University

## Publications

### Books

- Kugler, P. N., & Turvey, M. T. (1987). *Information, natural law and the self-assembly of rhythmic movement*. Hillsdale, NJ: Erlbaum. (Reprinted 2015 by Taylor & Francis)
- Latash, M. & Turvey, M. T. (Eds.) (1996). *Dexterity and its development*. Mahwah, NJ: Erlbaum.
- Turvey, M. T. (2019). *Lectures on perception: An ecological perspective*. Taylor & Francis.

### Book Chapters

- Lieberman, A. L., Mattingly, I. G., & Turvey, M. T. (1972). Language codes and memory codes. In A. W. Melton & E. Martin (Eds.), *Coding processes in human memory* (pp. 307-334). New York, NY: John Wiley.
- Turvey, M. T. (1974). A note on the relation between action and perception. In M. G. Wade & R. Martens (Eds.), *Psychology of motor behavior and sports*. Urbana, IL: Human Kinetics.
- Turvey, M. T. (1974). Constructive theory, perceptual systems and tacit knowledge. In W. Weimer & D. Palermo (Eds.), *Cognition and the symbolic processes*. Hillsdale, NJ: Erlbaum.
- Turvey, M. T. (1975). Perspectives in vision: Conception or perception? In M. Rawson & D. D. Duane (Eds.), *Language, perception and reading*. Baltimore: York.
- Turvey, M. T. (1977). Preliminaries to a theory of action with reference to vision. In R. Shaw & J. Bransford (Eds.), *Perceiving, acting and knowing: Toward an ecological psychology*. Hillsdale, NJ: Erlbaum.
- Fitch, H., & Turvey, M. T. (1978). On the control of activity: Some remarks from an ecological point of view. In D. Landers & R. W. Christina (Eds.), *Psychology of motor behavior and sport* (pp. 3-35). Urbana, IL: Human Kinetics.
- Fowler, C. A., & Turvey, M. T. (1978). Skill acquisition: An event approach with special reference to searching for the optimum of a function of several variables. In G. Stelmach (Ed.), *Information processing in motor learning and control* (pp 2-40) New York: Academic Press.
- Turvey, M. T. (1978). Visual processing and short-term memory. In W. K. Estes (Ed.), *Handbook of learning and cognitive processes, Volume 5*. Hillsdale, NJ: Erlbaum.
- Turvey, M. T., & Prindle, S. (1978). Modes of perceiving: Abstracts, comments and notes. In H. Pick & E. Saltzman (Eds.), *Modes of perceiving and processing information*. Hillsdale, NJ: Erlbaum.
- Turvey, M. T., Shaw, R. E., & Mace, W. (1978). Issues in the theory of action: Degrees of freedom, coordinative structures and coalitions. In J. Requin (Ed.), *Attention and performance VII* (pp. 557-595) Hillsdale, NJ: Erlbaum.

- Turvey, M. T., & Remez, R. (1979). Visual control of locomotion in animals: An overview. In L. Harmon (Ed.), *Interrelations of the communicative senses* (pp. 275-295). Washington, D. C.: National Science Foundation.
- Turvey, M. T., & Shaw, R. (1979). The primacy of perceiving: An ecological reformulation of perception for understanding memory. In L-G Nilssen (Ed.), *Perspectives on memory research: In honor of Uppsala University's 500th anniversary* (pp. 167-222, M. T. ). Hillsdale, NJ: Erlbaum.
- Fowler, C. A., Rubin, P., Remez, R. E., & Turvey (1980). Implications for speech production of a general theory of action. In B. Butterworth (Ed.), *Language production* (pp. 373-420). New York: Academic Press.
- Johnston, T., & Turvey, M. T. (1980). A sketch of an ecological metatheory for theories of learning. In G. Bower (Ed.), *The psychology of learning and motivation Vol.14* (pp. 147-205). New York: Academic Press.
- Kugler, P. N., Kelso, J. A. S., & Turvey, M. T. (1980). On the concept of coordinative structures as dissipative structures: I. Theoretical lines of convergence. In G. E. Stelmach & J. Requin (Eds.), *Tutorials in motor behavior* (pp. 1-47). Amsterdam: North Holland.
- Kelso, J. A. S., Holt, K., Kugler, P. N., & Turvey, M. T. (1980). On the concept of coordinative structures as dissipative structures. II. Empirical lines of convergence. In G. E. Stelmach & J. Requin (Eds.), *Tutorials in motor behavior*. Amsterdam: North Holland.
- Lukatela, G., & Turvey, M. T. (1980). Some experiments on the Roman and Cyrillic alphabets of Serbo-Croatian. In J. Kavanagh & R. L. Venezky (Eds.), *Cross-cultural comparisons of orthographies, reading and dyslexia*. Baltimore: University Park Press.
- Turvey, M. T. (1980). Biological constraints on linguistic form: Clues from the organization of motor systems. In U. Bellugi & M. Studdert-Kennedy (Eds.), *Biological constraints on linguistic form* (pp. 41-56). Berlin: Dahlem Konferenzen.
- Turvey, M. T. et al. (1980). The structuring of language by the requirements of motor control and perception. In U. Bellugi & M. Studdert-Kennedy (Eds.), *Signed and spoken language: Biological constraints on linguistic form*. Weinheim: Verlag Chemie.
- Shaw, R., & Turvey, M. T. (1981). Coalitions as models for ecosystems: A realist perspective on perceptual organization. In M. Kubovy & J. Pomerantz (Eds.), *Perceptual organization* (pp. 343-415). Hillsdale, NJ: Erlbaum.
- Fowler, C. A., & Turvey, M. T. (1982). Observational perspective and descriptive level in perceiving and acting. In W. Weimer & D. Palermo (Eds.), *Cognition and the symbolic processes II*. Hillsdale, NJ: Erlbaum.
- Kugler, P. N., Kelso, J. A. S., & Turvey, M. T. (1982). On the control and coordination of naturally developing systems. In J. A. S. Kelso & J. E. Clark (Eds.), *The development of movement control and coordination* (5-78). Chichester, England: John Wiley & Sons.
- Shaw, R., Turvey, M. T., & Mace, W. (1982). Ecological psychology: The consequence of a commitment to realism. In W. Weimer & D. Palermo (Eds.), *Cognition and the symbolic processes II* (pp. 159-226). Hillsdale, NJ: Erlbaum.
- Turvey, M. T., Fitch, H. L., & Tuller, B. (1982). The Bernstein perspective: I. The problems of degrees of freedom and context-conditioned variability. In J. A. S. Kelso (Ed.), *Understanding human motor control*. Champaign, IL: Human Kinetics.

- Tuller, B., Fitch, H. L., & Turvey, M. T. (1982). The Bernstein perspective: II. The concept of muscle linkage or coordinative structure. In J. A. S. Kelso (Ed.), *Understanding human motor control*. Champaign, IL: Human Kinetics.
- Fitch, H. L., Turvey, M. T., & Tuller, B. (1982). The Bernstein perspective: III. Timing of coordinative structures with special reference to perception. In J. A. S. Kelso (Ed.), *Understanding human motor control*. Champaign, IL: Human Kinetics.
- Carello, C., Turvey, M. T., Kugler, P. N., & Shaw, R. (1984). Inadequacies of the computer metaphor. In M. Gazzaniga (Ed.), *Handbook of cognitive neuroscience*. New York: Plenum.
- Kugler, P. N., Turvey, M. T., Carello, C., & Shaw, R. (1985). The physics of controlled collisions: A reverie about locomotion. In W. H. Warren, Jr. & R. Shaw (Eds.), *Persistence and change: Proceedings of the first international conference on event perception* (pp. 195-230) Hillsdale, NJ: Erlbaum.
- Solomon, J., Carello, C., & Turvey, M. T. (1984). Flow fields: The optical support for skilled activities. In W. F. Straub & J. M. Williams (Eds.), *Cognitive sport psychology*. Lansing, NY: Sport Science Associates.
- Turvey, M. T., Feldman, L. B., & Lukatela, G. (1984). The Serbo-Croatian orthography constrains the reader to a phonologically analytic strategy. In L. Henderson (Ed.), *Orthographies and reading*. London: Erlbaum.
- Turvey, M. T., & Kugler, P. N. (1984). An ecological approach to perception and action. In H. T. A. Whiting (Ed.), *Human motor actions: Bernstein reassessed*. Amsterdam: North Holland.
- Carello, C., & Turvey, M. T. (1986). Dependence of reading on orthography: Investigations in Serbo-Croatian. In H. S. R. Kao & R. Hoosain (Eds.), *Psychological studies in the Chinese language II*.
- Turvey, M. T., & Carello, C. (1988). Exploring a law-based, ecological approach to skilled action. In A. M. Colley & J. R. Beech (Eds.) *Cognition and action in skilled behaviour* (pp. 191-203). Amsterdam: North Holland Press
- Turvey, M. T. (1988). Simplicity from complexity: Archetypal action regimes and smart perceptual instruments as execution-driven phenomena. In J. A. S. Kelso, A. J. Mandel, M. F. Shlesinger (Eds.) *Dynamic patterns in complex systems*. Singapore: World Scientific.
- Schmidt, R. C. & Turvey, M. T. (1989). Absolute coordination: An ecological perspective. In S. Wallace (Ed.), *Perspectives on the coordination of movement* (pp. 123-156). Amsterdam: North Holland Press.
- Turvey, M. T. (1990). The challenge of a physical account of action: A personal view. In H.T.A. Whiting, O. Meijer, & P. van Wierengen (Eds.) *A natural-physical approach to movement control*. Amsterdam: Free University Press.
- Turvey, M. T., Carello, C., & Kim, N-G. (1990). Links between active perception and the control of action. In H. Haken & M. Stadler (Eds.), *Synergetics of cognition* (pp. 269-295). Berlin: Springer Verlag.
- Turvey, M. T., & Beek, P. J. (1990). Invariants of perception and action. *Proceedings of the sixth Yale workshop on adaptive and learning systems* (pp. 201-205). New Haven: Yale University.
- Turvey, M. T., Saltzman, E., & Schmidt, R. C. (1990). Dynamics and task-specific coordinations. In N. I. Badler, B. A. Barsky, & D. Zeltzer (Eds.) *Making them move: Mechanics, control, and animation of articulated figures* (pp. 157-170). San Mateo, CA: Morgan Kaufmann.

- Carello, C., & Turvey, M. T. (1991). Ecological units of analysis and baseball's illusions. In R. Hoffman & D. Palermo (Eds.), *Cognition and the symbolic processes, III*. Hillsdale, NJ: Erlbaum
- Turvey, M. T. (1991). Ecological perspective on action and perception. In R. Dauts & K. Blishke (Eds.) *Motorskills*. Saarbrücken: Saarbrücken University Press.
- Turvey, M. T. (1992). Ecological foundations of cognition: Invariants of perception and action. In H. Pick, P. Van den Broek, D. C. Knill (Eds.) *Cognitive psychology: Conceptual and methodological issues* (pp. 85-117). Washington: APA Books.
- Carello, C., Turvey, M. T., & Lukatela, G. (1992). Can theories of word recognition remain stubbornly nonphonological? In R. Frost & L. Katz (Eds.), *Orthography, phonology, morphology, and meaning*. Amsterdam: Elsevier.
- Turvey, M. T., Schmidt, R. C., & Beek, P. (1993). Fluctuations in interlimb rhythmic movement. In K. Newell (Ed.). *Variability in movement control*. Champaign, IL: Human Kinetics Publishers.
- Turvey, M. T. & Schmidt, R. C. (1993). A low-dimensional nonlinear dynamic governs interlimb rhythmic coordination. S. Swinnen et al. (Eds.), *Interlimb coordination: Neural, dynamical, and cognitive constraints*. New York: Academic Press.
- Turvey, M. T., & Shaw, R. E. (1995). Toward an ecological physics and a physical psychology. In R. Solso & D. Massaro (Eds.), *The science of the mind: 2001 and beyond* (pp. 144-169). Oxford: Oxford University Press.
- Lukatela, G., & Turvey, M. T. (1995). Phonological processes in Serbo-Croatian and English. In B. deGelder & J. Morais (Eds.) *Speech and reading: Comparative approaches*. Hove, England: Erlbaum (UK) Taylor & Francis.
- Turvey, M. T., & Carello, C. (1995). Some dynamical themes in perception and action. In R. Port & T. van Gelder (Eds.), *Mind as motion* (pp. 373-402). Cambridge, MA: MIT press.
- Turvey, M. T., & Carello, C. (1995). Dynamic touch. In W. Epstein & S. Rogers (Eds.), *Handbook of perception and cognition, Vol. V. Perception of space and motion* (pp. 401-490). San Diego: Academic Press.
- Turvey, M. T., & Carello, C. (1996). Dynamics of Bernstein's level of synergies. In M. Latash & M. T. Turvey (Eds.). *Dexterity and its development* (pp. 339-376). Mahwah, NJ: Erlbaum.
- Kim, N-G., & Turvey, M. T. (1998). Optical flow fields and Bernstein's "modeling of the future" In M. Latash (Ed.), *Progress in motor control, Vol I: Bernstein's traditions in movement studies* (pp. 221-266). Champaign, IL: Human Kinetics.
- Amazeen, P., Amazeen, E. L., & Turvey, M. T. (1998). Dynamics of human intersegmental coordination: Theory and research. In C. Collyer & D. Rosenbaum (Eds.), *Timing of behavior: Neural, psychological and computational perspectives* (pp. 237-260). Cambridge, MA: MIT Press.
- Mitra, S., Riley, M., Schmidt, R. C., & Turvey, M. T., (1998). Vision and the level of synergies. In L. H. Harris & M. Jenkins (Eds.), *Vision and action* (pp. 314-331). Cambridge: Cambridge University Press.
- Collins, D., & Turvey, M. T. (1999). Dynamical stability analyses of coordination patterns. In U. Windhorst & W. Johansson, H. (Eds.), *Modern techniques in neuroscience research* (pp. 641-668). Berlin: Springer Verlag.

- Carello, C., & Turvey, M. T. (2000). Rotational dynamics and dynamic touch. In M. Heller (Ed.), *Touch, representation and blindness* (pp. 27-66). Oxford: Oxford University Press.
- Turvey, M. T. (2001). Encoding, retrieving and aging. In Naveh-Benjamin, M., Moscovitch, M., & Roediger III, H. L. (Eds.), *Perspectives on human memory and cognitive aging: Essays in honor of Fergus Craik* (pp. 105-110) East Sussex, UK: Psychology Press.
- Carello, C., & Turvey, M. T. (2003). The ecological approach to perception. *Encyclopedia of cognitive science*. London: Nature Publishing Group.
- Turvey, M. T. (2003). *Preface to N. Bernstein's "On dexterity and its development" (i-vi)*. (Japanese translation). Tokyo; Kaneko Shobo.
- Turvey, M. T. (2004). Impredicativity, dynamics, and the perception-action divide. In V. K. Jirsa & J. A. S. Kelso (Eds.), *Coordination Dynamics: Issues and Trends. Vol.1 Applied Complex Systems* (pp. 1-20). New York: Springer Verlag.
- Carello, C., Wagman, J. B., & Turvey, M. T. (2005). Acoustic specification of object properties. In J. Anderson and B. Anderson (Eds.), *Moving image theory: Ecological considerations* (pp. 79-104). Carbondale, IL: Southern Illinois University Press.
- Balasubramaniam, R., & Turvey, M. T. (2005). Section IV: 1990-1999. In M. F. Feldman (Ed.), *A. G. Feldman 1965-2005 Forty years of the equilibrium-point hypothesis* (pp. 375-378). Montreal: Tristar Printing.
- Chemero, A., & Turvey, M. T. (2006). Complexity and "closure to efficient cause" (pp. 13-18). In *ALIFE X: workshop on artificial autonomy*. Cambridge, MA: MIT Press,
- Park, H., & Turvey, M. T. (2008). Imperfect symmetry and the elementary coordination law. In A. Fuchs, V.K. Jirsa (Eds.), *Coordination: Neural, Behavioral and Social Dynamics* (pp. 3-25). Berlin: Springer.
- Richardson, M. J., Shockley, K., Riley, M. R., Fajen, B. R., & Turvey, M. T. (2008). Ecological psychology: Six principles for an embodied-embedded approach to behavior. In P. Calvo & A. Gomila (Eds.), *Handbook of cognitive science: An embodied approach*. (pp. 161-190). San Diego CA: Elsevier.
- Turvey, M. T., & Fonseca, S. (2009). Nature of motor control: Perspectives and issues. In D. Sternad (Ed.) *Progress in motor control: A multidisciplinary perspective* (pp. 93-123). New York: Springer Verlag.
- Turvey, M. T. (2009). Nature of motor control: Not strictly "motor", not quite "control". In D. Sternad (Ed.) *Progress in motor control: A multidisciplinary perspective* (pp. 3-6). New York: Springer Verlag.
- Moreno, M., & Turvey, M. T. (2010). Self-organizing systems. In P. Hogan (Ed.), *The Cambridge Encyclopedia of the Language Sciences*. Cambridge: Cambridge University Press
- Chemero, A. & Turvey, M. T. (2010). Is life computable? In J. Queiroz, J. & A. Loula (Eds.), *Advances in modeling adaptive and cognitive systems* (pp. 29-37). Feira de Santana, Brazil: Editora UEFS Springer
- Frank, T., Dotov, D., & Turvey, M. T. (2010). A canonical-dissipative approach to control and coordination in the complex system Agent-Task-Environment. In F. Danion & M. Latash (Eds.) *Motor Control: Theories, Experiments, and Applications* (pp. 50-71). Oxford University Press: Oxford
- Rhodes, T., & Turvey, M. T. (2011). Self-organization of movements. In W. Jantzen (Ed.), *Behinderung, Bildung, Partizipation (Disability, education and participation)*, Volume 9 (pp.

209-210): *Sinne, Körper und Bewegung (Senses, body and movement)*. Stuttgart, Germany: Kohlhammer-Verlag.

- Turvey, M. T. (2013). Ecological perspective on perception-action: What kind of science does it entail? In W. Prinz, M. Bessard, & A. Herwig (Eds.), *Action science: Foundations of an emerging discipline* (pp. 139-170). Cambridge MA: MIT Press.
- Carello, C. & Turvey, M. T. (2015). Dynamic (effortful) touch. Prescott, A., Ahissar, E., & Izhikevich, E. (Eds.) *Scholarpedia of Touch* (pp. 227-240). Atlantis Press.

## Journal Articles

- Turvey, M. T. (1966). The effects of rehearsing analyzed information upon the retrieval of unanalyzed information. *Psychonomic Science*, **6**, 365-66.
- Turvey, M. T. (1967). Repetition and the preperceptual information store. *Journal of Experimental Psychology*, **74**, 289-93.
- Turvey, M. T. (1967). Evidence of a connotative dimension in short-term memory as a function of retention interval. *Psychonomic Science*, **9**, 547-48.
- Turvey, M. T. (1967). The structure of order error in the build-up of proactive interference in short-term memory. *Psychonomic Science*, **11**, 213-14.
- Turvey, M. T. (1968). Analysis of augmented recall in short-term memory following a shift in connotation. *British Journal of Psychology*, **59**, 131-37.
- Sherman, M. F., & Turvey, M. T. (1969). Modality differences in short-term serial memory as a function of presentation rate. *Journal of Experimental Psychology*, **80**, 335-38.
- Turvey, M. T., Cremins, J. J., & Lombardo, T. (1969). Taxonomic categories and proactive interference in short-term memory. *Psychonomic Science*, **15**, 307-08.
- Turvey, M. T., & Egan, J. F. (1969). Contextual change and release from proactive interference in short-term memory. *Journal of Experimental Psychology*, **81**, 396-97.
- Turvey, M. T., Fertig, J., & Kravetz, S. (1969). Connotative classification and proactive interference in short-term memory. *Psychonomic Science*, **16**, 223-24.
- Turvey, M. T., & Wittlinger, R. P. (1969). Attenuation of proactive interference in short-term memory as a function of cueing to forget. *Journal of Experimental Psychology*, **80**, 295-98.
- Laverty, J. J., & Turvey, M. T. (1970). Absence of specific retroactive interference effects of acoustic similarity in short-term memory. *Psychonomic Science*, **20**, 123-24.
- Turvey, M. T., Brick, P., & Osborn, J. (1970). Proactive interference in short-term memory as a function of prior-item retention interval. *Quarterly Journal of Experimental Psychology*, **22**, 142-47.
- Turvey, M. T., Brick, P., & Osborn, J. (1970). Temporal course of proactive interference in short-term memory. *British Journal of Psychology*, **61**, 467-72.
- Turvey, M. T., & Egan, J. F. (1970). Release from proactive interference in short-term memory as a function of change in visual and phonemic structure and retention interval. *Perception & Psychophysics*, **7**, 169-72.
- Turvey, M. T., & Fertig, J. (1970). Polarity on the semantic differential and release from proactive interference in short-term memory. *Journal of Verbal Learning and Verbal Behavior*, **9**, 439-43.

- Turvey, M. T., & Kravetz, S. (1970). Retrieval from iconic memory with shape as the selection criterion. *Perception & Psychophysics*, **8**, 171-72.
- Doost, R., & Turvey, M. T. (1971). Iconic memory and central processing capacity. *Perception & Psychophysics*, **9**, 269-74.
- Turvey, M. T., Mosher, D. L., & Katz, L. (1971). Subsequent recognition of items subjected to proactive interference in short-term memory. *Psychonomic Science*, **25**, 365-67.
- Darwin, C. J., Turvey, M. T., & Crowder, R. G. (1972). An auditory analogue of the Sperling partial report procedure: Evidence for brief auditory storage. *Cognitive Psychology*, **3**, 255-67.
- Sullivan, E. V., & Turvey, M. T. (1972). Short-term retention of tactile stimulation. *Quarterly Journal of Experimental Psychology*, **24**, 253-61.
- Turvey, M. T. (1972). Some aspects of selection from iconic memory. *Haskins Laboratories Status Report on Speech Research*, **30**, 1-14.
- Turvey, M. T., Pisoni, D., & Fertig, J. (1972). A right-ear advantage in the retention of words presented monaurally. *Haskins Laboratories Status Report on Speech Research*, **32**, 67-74.
- Michaels, C. F., & Turvey, M. T. (1973). Hemiretinae and non-monotonic masking functions with overlapping stimuli. *Bulletin of the Psychonomic Society*, **2**, 163-64.
- Turvey, M. T. (1973). On peripheral and central processes in vision: Inferences from an information processing analysis of masking with patterned stimuli. *Psychological Review*, **80**, 1-52.
- Dorman, M., Kewly-Port, D., Brady-Wood, S., & Turvey, M. T. (1973) Forward and backward masking of brief vowels. *Haskins Laboratories Status Report on Speech Research*, **33**, 93-100.
- Sullivan, E. V., & Turvey, M. T. (1974). On the short-term retention of serial tactile stimuli. *Memory & Cognition*, **2**, 601-06.
- Turvey, M. T., Michaels, C. F., & Port, D. K. (1974). Visual storage or visual masking? An analysis of the 'Retroactive contour enhancement' effect. *Quarterly Journal of Experimental Psychology*, **26**, 72-81.
- Turvey, M. T., & Weeks, R. (1975). Effects of proactive interference and rehearsal on the primary and secondary components of short-term retention. *Quarterly Journal of Experimental Psychology*, **27**, 47-62.
- Rubin, P. E., Turvey, M. T., & Van Gelder, P. (1976). Initial phonemes are detected faster in spoken words than spoken nonwords. *Perception & Psychophysics*, **19**, 394-98.
- Turvey, M. T. (1976). Sensory memory, schematic memory and information processing. *Proceedings of the 21st International Congress of Psychology, Paris*. Paris: Imprimerie Luis-Jean.
- Dorman, M. F., Port, D. K., Brady, S., & Turvey, M. T. (1977). Processes in vowel recognition: Inferences from studies of forward and backward masking. *Quarterly Journal of Experimental Psychology*, **29**, 483-497.
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- Carello, C., & Turvey, M. T. (2017). Useful dimensions of haptic perception: 50 years after the senses considered as perceptual systems. *Ecological Psychology*, 29, 95-121.
- Fultot, M., Frazier, P. A., Turvey, M.T. & Carello, C. (2019) von Uexküll's Theory of Meaning and Gibson's Organism-Environment Reciprocity. *Ecological Psychology*, 31, 218-235
- Carello, C., & Turvey, M. T. (in press). Challenging the axioms of perception: the retinal image and the visibility of light. In J. B. Wagman & J. J. C. Blau (Eds.), *Perception as information detection: Reflections on Gibson's ecological approach to visual perception*. New York: Taylor & Francis.
- Dotov, D., Frank, T., & Turvey, M. T. (in press). Embodied gestalts: Unstable visual phenomena become stable when they are stimuli for competitive action-selection. *Attention, Perception, & Psychophysics*
- Fultot, M. F., Frazier, P. A., Turvey, M. T. & Carello, C. (2019). What Are Nervous Systems For? *Ecological Psychology (Special Issue)*, 31, 198-234. (415).

**(122 publications since 2000, 49 since 2010)**

#### **Invited Colloquia/Presentations**

- Academy of Science, Beijing, China
- Advanced Telecommunications Research (ATR), Kyoto, Japan
- Amherst College
- Antioch College
- Arizona State University
- Barnard College
- Birkbeck College, London, England
- Boston College
- Boston University (5)
  - Center for Adaptive Systems (2)
  - Center for Neuromuscular Disorders
  - Sargent Health Sciences (2)
- Brandeis University (3)
- Bristol University, Bristol, England
- Brown University (4)
- Buffalo State University
- Cambridge University, Cambridge, England
- Carlton University, Ottawa, Canada
- Carnegie Mellon University
- Center for Advanced Study in the Behavioral Sciences, Palo Alto, California
- Chinese University of Hong Kong
- City University of New York
- Clark University
- Columbia University
- Cornell University
- Dalhousie University
- Dartmouth College (2)

Denison University  
Exeter University, Exeter, England  
Free University, Amsterdam, Netherlands (5)  
Federal University of Minas Gerais, Belo Horizonte, Brazil (2)  
Fell's Research Institute  
Georgia Tech  
Griffith University, Queensland, Australia  
Guelph University, Guelph, Canada  
Hampshire College  
Harvard University  
Indiana University (2)  
Illinois State University  
John Hopkins University (2)  
Kangnam University, Korea (2)  
Lake Forest College  
London University, London, England  
Loughborough University, England  
Massachusetts Institute of Technology  
    Department of Psychology (2)  
    Department of Electrical Engineering  
Mayo Clinic  
McGill University, Montreal, Quebec, Canada  
McMaster University, Hamilton, Ontario, Canada  
National Institutes of Health, Bethesda, Maryland  
New School for Social Research, New York  
New York University (3)  
Northeast Ontario Medical Center  
Northeastern University  
Oxford University, Oxford, England  
Ohio State University (3)  
Ohio Wesleyan University  
Pennsylvania State University  
    Department of Psychology  
    Department of Kinesiology (2)  
Princeton University  
Queen's University, Belfast, Ireland  
Queen's University, Kingston, Ontario  
Reading University, Reading, England  
The Rockefeller University  
The Salk Institute  
Seoul National University, Korea (2)  
Simon Fraser University, Vancouver, Canada  
Sheffield University, Sheffield, England  
Smith College (2)

Stanford University (3)  
    Department of Psychology  
    Department of Philosophy  
    Medical School: Aging, Alcoholism, & Alzheimer's Program  
State University of New York at Binghamton  
Stirling University, Stirling, Scotland  
Sussex University, Sussex, England  
Swarthmore College  
Tokyo University, Japan  
Tokyo Denke University, Japan  
University at Albany  
University of Belgrade, Yugoslavia  
    Faculty of Philosophy (2)  
    Faculty of Electrical Engineering (2)  
University of Buffalo  
University of California, Berkeley  
University of California, Los Angeles (2)  
University of California, San Diego  
University of California, Riverside  
University of California, Merced  
University of Cincinnati (2)  
University of Chicago  
University of Delaware  
University of Groningen, Netherlands  
University of Illinois  
University of Iowa  
University of Massachusetts (4)  
    Department of Psychology  
    Department of Philosophy  
    Department of Kinesiology  
    Neuroscience  
University of Michigan  
University of Minnesota (3)  
University of Nebraska, Omaha  
University of North Carolina, Greensboro  
University of Pennsylvania (3)  
University of Pittsburgh  
University of Texas  
University of Tokyo, Japan  
University of Toronto, Toronto, Canada (2)  
University of Washington (5)  
University of Western Kentucky  
University of Wisconsin  
Vanderbilt University

Vassar College  
Wellesley College  
Wesleyan University (2)  
Yale University (2)  
Yeshiva University

### **Invited Conferences and Symposia**

Lake Arrowhead Conference on Verbal Learning and Memory—Lake Arrowhead, CA (1970)  
Cognition and the Symbolic Processes, I—Penn State University (1972)  
North American Society for the Psychology of Sport and Physical Activity—University of Illinois (1973)  
Perceiving, Acting, and Knowing—University of Minnesota (1973)  
International Conference on Dyslexia—Mayo Clinic (1975)  
Seventh International Symposium on Attention and Performance—Sénanque, France (1976)  
Levels of Processing in Memory—Rockport, MA (1976)  
Information Processing Stages in Memory—Paris (1976)  
Information Processing and Motor Control—University of Wisconsin (1977)  
North American Society for the Psychology of Sport and Physical Activity—Ithaca College (1977)  
Perceptual Organization—Washington, D.C. (1977)  
Perspectives on Memory Research—Uppsala University (1977)  
Cognition and the Symbolic Processes, II—Penn State University (1977)  
Orthography, Reading, and Dyslexia—NIH (1978)  
Interrelations Among the Communicative Senses—Asilomar, CA (1978)  
Understanding Human Movement Control—Iowa State University (1980)  
Biological Constraints on Linguistic Form—Berlin (1980)  
American Psychological Association Symposium on James J. Gibson's Contribution to Psychology—Montreal, Canada (1980)  
Nonlinear Approaches to Brain Function—Santa Inez, CA (1981)  
Language and Movement—Lake Arrowhead, CA (1981)  
Neural Modeling—Phoenix, Arizona (1981)  
Lake Ontario Visual Experimenters—Niagara, Canada (1982)  
Serbian Congress of Psychology—Smederevo, Yugoslavia (1982)  
Situational Semantics—University of Massachusetts (1983)  
ONR Meetings on Attention and Action—Santa Barbara, CA (1983)  
International Symposium on Psychological Aspects of the Chinese Language—University of Hong Kong (1984)  
ONR Meetings on Attention and Action—New Haven, CT (1984)  
Sensory-Motor Systems—Bielefeld, FRG (1985)  
ONR Meetings on Attention and Action—Boston, MA (1985)  
ONR Meetings on Attention and Action—Eugene, OR (1986)  
Speaking, Reading, Thinking, and Development—Southern Florida University (1987)  
A Natural-Physical Approach to Movement Control—The Free University, Amsterdam (1987)  
International Conference on Skilled Behavior—Sussex University (1987)  
Dynamical Patterns in Complex Systems—Boca Raton (1988)  
Mechanics, motion, and animation—MIT (1989)

Synergetics of cognition—Munich, FRG (1989)  
 International Symposium on motor control and motor learning—Saarbrücken, FRG (1989)  
 Phonological process in visual word recognition—Zadar, Yugoslavia (1989)  
 Gibson Memorial Lecture—Cornell University (1989)  
 Methodological and theoretical issues in cognitive psychology—Minneapolis, MN (1991)  
 Variability in motor control—Chicago, IL (1991)  
 Dynamical representations in cognition—Bloomington, IN (1991)  
 Dynamics of Complex Systems—Boca Raton, FLA (1992)  
 International Conference on Interlimb Coordination—Leewven, Belgium (1992)  
 Plenary address, Society for Cognitive Science Meetings—Bloomington, IN (1992)  
 Human Kinetics Lecture, North American Society for the Psychology of Sport and Physical Activity—MN (1993)  
 Keynote address, Gatlinburg conference on Research and Theory in Mental Retardation and Developmental Disabilities—Gatlinburg TN (1995).  
 Symposium On rhythmic and discrete synergies: Current theories and new directions. Eighth International Conference on Perception and Action—Marseilles, FR (1995).  
 Dynamical themes in perception and action on the 125th Anniversary of Vrije Universiteit—Amsterdam, Netherlands (1995)  
 Symposium on Homeokinetic Physics at the North American Society for Ecological Psychology—Hartford, CT (1996)  
 Workshop on Dynamics, Computation, and Cognition at the Santa Fe Institute—Santa Fe, NM (1996)  
 Bernstein's Traditions in Motor Control—State College, PA (1996)  
 Vision and Action at Institute for Spatial and Terrestrial Science, York University—Toronto, Canada (1997)  
 Keynote Address, American Society for Biomechanics—Clemson, SC (1997).  
 APA Distinguished Scientist Lecturer Keynote Address, SEPA—Mobile AL (1998).  
 Keynote Address, Conference on Representation and Blindness—San Marino (1998).  
 Invited presentation, 1998 Homeokinetics Conference—Storrs, CT (1998)  
 Plenary Address, Chaos Society—Boston, MA (1998)  
 Preeminent Tutorial, Society for the Quantitative Analysis of Behavior—Chicago (1999)  
 Invited address, Workshop on Science and Practice of Reading—Storrs, CT (1999)  
 Symposium on Auditory Perception, X International Conference on Perception and Action—Edinburgh, Scotland (1999).  
 Special Lectures in Neuroscience, Purdue University Interdisciplinary Graduate Program in Neuroscience—West Lafayette, IN (1999).  
 Special Lectures in Cognitive Science, Norwegian University of Science and Technology—Trondheim, Norway (1999).  
 Society of Experimental Psychologists—Santa Cruz, CA (2000)  
 Perspectives on Human Memory and Cognitive Aging (In Honor of F. I. M. Craik)—Toronto, Canada (2000).  
 Invited paper, The new natural philosophy: Introduction to 21<sup>st</sup> century physics and cosmology—Storrs, CT. (2000).

Invited presentation, Symposium on Active and Passive Touch, International Congress of Psychology—Stockholm, Sweden (2000)

Invited presentation, Symposium on Ecological Psychology in the 21<sup>st</sup> Century, International Congress of Psychology—Stockholm, Sweden (2000)

Invited presentation, New England Sequencing and Timing Conference—New Haven, CT. (2001) Society of Experimental Psychologists—Princeton, NJ (2001)

Invited presentation, Symposium on The Perception-Action Cycle, XI International Conference on Perception and Action—Storrs, CT. (2001)

Invited presentation, Symposium on Affordance, International Conference on Perception and Action—Storrs, CT. (2001)

Keynote Address, 6<sup>th</sup> Biennial Motor Control & Human Skill Research Workshop—Fremantle, Western Australia, Australia (2001)

Primary Workshop on the Physics and Psychology of the Muscle Sense, 6<sup>th</sup> Biennial Motor Control & Human Skill Research Workshop—Fremantle, Western Australia, Australia (2001)

Invited presentation, Conference on Current Issues in the Ecological Approach to Perception and Action—Amsterdam, Netherlands (2002)

Society of Experimental Psychologists—Berkeley, CA (2002)

Invited address, International Conference on Coordination Dynamics—West Palm Beach, FL (2002)

Invited address, Physics and Psychology of the Muscle Sense, APS Conference—New Orleans, LA (2002)

Invited address, Dynamical Neuroscience Symposium, Society for Neuroscience—Orlando, FL (2002)

Society of Experimental Psychologists—St. Louis, MO (2003)

Invited address, Munich Encounters in Cognition and Action, Max Planck Institute—Munich, Germany (2003).

Invited presentation, XII International Conference on Perception and Action—Gold Coast, Australia (2003)

F. J. McGuigan Lecture, APA—Toronto, Canada, (2003).

Organizer/Presenter NSF Workshop on Integrated Cognitive Science—Washington DC (2003)

Delos D. Wickens Memorial Lecture, Ohio State University—Columbus, OH (2003)

Society of Experimental Psychologists—Ithaca, NY (2004)

Lecture Series on Ecological Psychology, Japan Society for the Promotion of Science, Institute for Informatics—Tokyo, Japan (2004).

Keynote Address, Conference on Ecological Psychology, Kangnam University—Seoul, Korea (2004)

Keynote Address, Fourth International Conference on the Mental Lexicon—Windsor, Ontario, Canada (2004)

Keynote Addresses (Opening and Closing), Second Brazilian Conference on Motor Control—Belo Horizonte, Brazil (2004)

Invited presentation, Lake Ontario Visual Experimenters—Niagara, Canada (2005)

Howard Hughes Medical Institute Lecture, Trinity College—Hartford, CT (2005)

Society of Experimental Psychologists—Tampa, FLA (2005).

Invited presentations, 14<sup>th</sup> International Conference of Perception and Action—Yokohama, Japan (2005)

Invited presentation, 6<sup>th</sup> International Conference on Progress in Motor Control—State College, PA (2005)

Keynote Address, 11<sup>th</sup> International Congress of French Society of Movement Scientists—Paris, France (2005)

Society of Experimental Psychologists—San Diego, CA (2006)

Keynote Address, XIX Symposium of the Spanish Society for the History of Psychology—Madrid, Spain (2006)

Keynote Address on Motor Development, North American Society of the Psychology of Sport and Physical Activity—Denver, CO (2006)

Faculty, Motor Control Summer School—Ligonier, PA (2006)

Lecturer, APA Advanced Technical Institute (Applications of Nonlinear Dynamics in Psychology)—Cincinnati, OH (2006)

Invited presentation, International Conference on Coordination Dynamics—Boca Raton, FLA (2007)

Society of Experimental Psychologists—Storrs, CT (2007)

Keynote Address, European Workshop on Movement Science 2007—Amsterdam, Netherlands (2007)

Lecturer, APA Advanced Technical Institute (Applications of Nonlinear Dynamics in Psychology)—Cincinnati, OH (2007)

Invited presentations, 14<sup>th</sup> International Conference on Perception and Action—Yokohama, Japan (2007)

Distinguished Ohio State University Alumnus Award, Centennial Celebration, Department of Psychology Lecture—Columbus, OH (2007)

Centennial Celebration Lecture, College of Liberal Arts and Sciences, Purdue University—West Lafayette, IN (2007)

Society of Experimental Psychologists—Indiana University, Bloomington, IN (2008)

Lecturer, APA Advanced Teaching Institute (Applications of Nonlinear Dynamics in Psychology)—Cincinnati, OH (2008)

Keynote Address, European Society of Ecological Psychology—Madeira, Portugal (2008)

Invited workshop on Sports Science and the Sciences of Complexity—Madeira, Portugal (2008)

Invited lecture in the Lecture Series: George Berkeley's *New Theory of Vision*: 300 Years Later, Brown University—Providence, RI (2009)

Society of Experimental Psychologists—University of Colorado, Boulder, CO (2009)

Invited presentation, 15<sup>th</sup> International Conference on Perception and Action—Minneapolis, MN (2009)

Keynote Address, International Conference on Progress in Motor Control VII—Marseille, France (2009)

Inauguration of the Center for Motor Control Lecture—Pennsylvania State University, PA (2009)

Closing Address, 5<sup>th</sup> Biennial International Conference on the Philosophical, Epistemological, and Methodological Implications of the Theory of Complexity—Havana, Cuba (2010)

Society of Experimental Psychologists—University of Pennsylvania, Philadelphia, PA (2010)

Commencement Address—University of Connecticut, Storrs, CT (2010)

Invited Address, 25<sup>th</sup> Anniversary Conference on Perception and Action, ZIF—Bielefeld, Germany (2010)

Invited Address, Royal Society Conference on Active Tactile Systems—Chicheley, UK (2011)

Invited Presentation DARPA Meeting on Physical Intelligence—UCLA (2011)

Society of Experimental Psychologists—University of Washington, Seattle, WA (2011)

Honorary Doctorate in Humane Letters University Address—Florida Atlantic University, Boca Raton, FLA (2011)

Invited Presentations (3), 16<sup>th</sup> International Conference on Perception and Action—Ouro Preto, Brazil (2011)

Past ISMC's President's Address, International Conference on Progress in Motor Control VIII—Cincinnati, OH (2011)

J. R. Kantor Memorial Lecture, Denison University—Granville, OH (2012)

Society of Experimental Psychologists—Rice University, Houston, TX (2012)

Glushko-Samuelson Distinguished Cognitive Scientist Award Lecture, University of California, Merced, CA (2012)

Esther Thelen Memorial Lecture, Feldenkrais Society International Conference—San Mateo, CA (2012)

Invited Presentation, Boston Action Club—Northeastern University, MA (2012)

Society of Experimental Psychologists—Brown University, Providence, RI (2013)

Invited Presentation, 17<sup>th</sup> International Conference on Perception and Action—Lisbon, Portugal (2013)

Keynote Address, Conference on Affordance—Darmstadt Technical University, Germany (2013)

Society of Experimental Psychologists—UCLA, Westwood, CA (2014)

Invited Address, Korean Society for Sports Science—Seoul National University, Korea (2014)

Plenary Address, Korean Society for Cognitive Science—Seoul National University, Korea (2014)

Plenary Address, 8<sup>th</sup> International Conference on Quantum Interactions—Filzbach, Switzerland (2014)

Invited Presentations (2), 17<sup>th</sup> International Conference on Perception and Action—Minneapolis, USA (2015)

Society of Experimental Psychologists—Columbia University, NY, NY (2016)

Invited Presentation, North American Society for Ecological Psychology, Clemson (2016)

Plenary Address, European Workshop on Ecological Psychology, Groningen, Netherlands (2016)

Society of Experimental Psychologists—Vanderbilt University, Nashville, TN (2017)

Invited Presentations (2), 18<sup>th</sup> International Conference on Perception and Action—Seoul, Korea (2017)

Society of Experimental Psychologists—University of Arizona, Tempe, AZ (2018).