

at primary, secondary, and tertiary levels of education. With this context, one can view these current calls not as a radical shift of direction, but as a logical next stage in the evolution of curriculum. I conclude with a call for more research assessing the effectiveness of systems-oriented instruction and provide guidelines for enhancing the usefulness of such research in the current United States system.

KEYWORDS

History of Curriculum Development; Systems Thinking; Complexity

Cite this paper

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References

- [1] Ackoff, R. L. (1999). Ackoff' s best: His classic writings on management. John Wiley & Sons: New York.
- [2] Akimoto, H. (2003). Global air quality and pollution. Science, 302, 1716-1719. doi:10.1126/science.1092666
- [3] Agyris, C. (1976). Increasing leadership effectiveness. New York: John Wiley & Sons.
- [4] Bell, B. I. (1949). Crisis in education: A challenge to American complacency. New York: Whittlesey House.
- [5] Bellack, A., & June A. (1969). History of curriculum thought and practice. Review of Educational Research, 39, 283-292.
- [6] Benjamin, H. R. W. (1939). Saber-tooth curriculum, including other lectures in the history of paleolithic education. New York: McGraw- Hill.
- [7] Berliner, D. C., & Bingman, V. P. (1997). The manufactured crisis: Myths, fraud, and the attack on America' s public schools. White Plains, NY: Longman Publishers.
- [8] Bestor, A. (1953). Educational wastelands: A retreat from learning in our public schools. Urbana, IL: University of Illinois Press.
- Booth Sweeney, L., & Sterman, J. (2000). Bathtub dynamics: Initial results of a systems thinking inventory. System Dynamics Review, 16, 249-286. doi:10.1002/sdr.198
- [10]Boulding, K. (1953). Toward a general theory of growth. Canadian Journal of Economics and Political Science, 19, 326-340. doi:10.2307/138345

[11]Bruner, J. (1953). The Process of Education. Cambridge, MA: Harvard University Press.

[12]Bush, G. W. (2006). State of the union address. URL http://georgewbushwhitehouse.archives.gov/stateoftheunion/2006/

[13]Cavaleri, S, & Sterman, J. (1997). Towards evaluation of systems thinking interventions: A case study. System Dynamics Review, 13, 171-186. doi:10.1002/(SICI)1099-1727(199722)13:2<171::AID-SDR123>3.0.CO;2-9

[14]Cremin, L. (1955). The revolution in American secondary education. Teachers College Record, 56, 295-308.

- [15]Cremin, L. A. (1961). The Transformation of the School: Progressivism in American Education. New York: Alfred A. Knopf.
- [16]Cremin, L. A. (1971). Curriculum-making in the United States. Teachers College Record, 73, 207-220.
- [17]Cohen, J. (2003). Human population: The next half century. Science, 302, 1172-1175. doi:10.1126/science.1088665
- [18]Council of Economic Advisors (2005). The economic report of the president. Washington: Government Printing Offices.
- [19]Davis, O. L. (1976). Perspectives on Curricular Development 1776- 1976. Washington: Association for Supervision and Curriculum Development.
- [20] Dewey, J. (1902). The child and the curriculum. Chicago: University of Chicago Press.

[21] Dewey, J. (1916). Democracy and education: An introduction to the philosophy of education. New York: MacMillan.

- [22] Dumaine, B. (1989). What the leaders of tomorrow see. Fortune, 120, 48-54.
- [23]Egan, K. (1997). The educated mind. Chicago: University of Chicago Press.
- [24]Eliot, C. (1892). Wherein popular education has failed. In E. A. Krug, (Ed.), Charles W. Eliot and popular education. New York: Teachers College, Columbia University.
- [25]Ellis, A. K. (2004). Exemplars of curriculum theory. New York: Eye on Education, Inc.
- [26]Essington, T. E., Beaudreau, A., & Wiedenmann, J. (2006). Fishing through marine food webs. Proceedings of the National Academy of Sciences of the United States of America, 103, 3171-3191. doi:10.1073/pnas.0510964103
- [27]Ezzati, M., Utzinger, J., Cairncross, S., Cohen, A. J., & Singer, B. H. (2005). Environmental risks in the developing world: Exposure indicators for evaluating interventions, programmes, and policies. Journal of Epidemiology and Community Health, 59, 15-22. doi:10.1136/jech.2003.019471

[28]Forrester, J. W. (1996). System Dynamics and K-12 Teachers. Charlottesville, VA: University of Virginia.

- [29]G8 Gleneagles (2005). Climate change, clean energy and sustainable development. URL http://www.unglobalcompact.org/docs/about_the_gc/government_support/PostG8_Gleneagles_Communique.pdf
- [30]Gleik, P. H. (2003). Global freshwater resources: Soft-path solutions for the 21st century. Science, 302, 1524-1528. doi:10.1126/science.1089967
- [31]Gore, A. (2006). Interview with terry gross. Washington: National Public Radio.
- [32] Hofstadter, R. (1963). Anti-intellectualism in American life. New York: Knopf.
- [33]Huz, S., Andersen, D. F., Richardson, G.P., & Boothroyd, R. (1997). A framework for evaluating systems thinking interventions: An experimental approach to mental health system change. System Dynamics Review, 13, 149-169. doi:10.1002/(SICI)1099-1727(199722)13:2<149::AID-SDR122>3.0.CO;2-S
- [34]Jackson, P. (1992). Conceptions of curriculum and curriculum specialists. In Jackson, P. (Ed.), Handbook of Research on Curriculum. New York: MacMillan.
- [35] Jenkins, M. (2003). Prospects for biodiversity. Science, 302, 1175-1177. doi:10.1126/science.1088666
- [36]Laszlo, E., Masulli, I., Artigiani, R., & Csanyi, V. (1993). The evolution of cognitive maps: New paradigms for the twenty-first century. Amsterdam: Gordon and Breach Publishers.
- [37]Marshall, J. D. (2000). Turning points in curriculum: A contemporary American memoir. Upper Saddle River, NJ: Merrill.
- [38]Meadows, D. (1991). The global citizen. Washington: Island Press.

- [39]Meyer, A. (1967). An educational history of the American people. New York: McGraw-Hill Book Company.
- [40]Moore, D. W., Monaghan, E. J., & Hartman, D. K. (1997). Values of literacy history. Reading Research Quarterly, 32, 90-102. doi:10.1598/RRQ.32.1.6
- [41]National Education Association (1918). The cardinal principles of seconddary education In G. Willis, W. H. Schubert, R. V. Bullough, C. Kridel, & J. T. Holton (Eds.) The American curriculum: A documenttary history (pp. 153-162). Westport: Greenwood Press.
- [42]National Commission on Excellence in Education. (1983). A nation at risk: The imperative for educational reform. Washington: US Department of Education.
- [43]Odum, H. T. (1994). Ecological and general systems. Niwot: University Press of Colorado.
- [44]Odum, H. T., & Odum, E. C. (2001). A prosperous way down. Boulder: University Press of Colorado.
- [45]Ornstein, A. C. & Levine D. U. (2000). Foundations of education (7th ed.). Boston: Houghton Mifflin Company.
- [46]Orr, D. W. (1994). Earth in mind: On education, environment, and the human prospect. Washington: Island Press.
- [47]Orr, D. W. (2002). The nature of design: ecology, culture, and human intention. New York: Oxford University Press.
- [48]Pinar, W., Reynolds, W., Slattery, P., & Taubman, P. (1995). Understanding curriculum: An introduction to the study of historical and contemporary curriculum discourses. New York: Peter Lang.
- [49]Rockefeller Brothers Fund (1958). The pursuit of excellence: Education and the future of America. Garden City, NY: Doubleday & Company.
- [50]Scobey, M.-M., & Graham, G. (1970). To nurture humaneness. Washington: National Education Association.
- [51]Silberman, C. (1970). Crisis in the Classroom: The Remaking of American Education. New York: Random House.
- [52]Smith, B. O., Stanley, W. O., & Shores, J. H. (1957). Fundamentals of curriculum. Yonkers-on-Hudson, NY: World Book Company.
- [53]Stocking, M. A. (2003). Tropical soils and feed security: The next 50 years. Science, 302, 1356-1359. doi:10.1126/science.1088579
- [54]Strong, M. (2001). Forward. In Marten, G. (Ed.) Human Ecology. Sterling, VA: Earthscan.
- [55] Taba, H. (1962). Curriculum development: Theory and practice. New York: Harcourt, Brace & World.
- [56] Tanner, D., & Tanner, L. (1980). Curriculum development: Theory into practice. Columbus, OH: Merrill.
- [57] Tanner, D., & Tanner, L. (1990). History of the school curriculum. New York: MacMillan.
- [58] The Yale Report (1828). The American curriculum: A documentary history. In G. Willis, W. H. Schubert, R. V. Bullough, C. Kridel, & J. T. Holton (Eds.). Westport: Greenwood Press.
- [59]Tully, S. (2000). Water, water everywhere. Fortune, 141, 342-354.
- [60]United States Department of Commerce, United States Department of Education, United States Department of Labor. (1999). 21st century skills for 21st century jobs. Washington: US Government Printing Office.
- [61]United States Department of Education (1986). What works: Research about teaching and learning. Washington: US Government Printing Office.
- [62]United States Department of Education (2006) Meeting the challenge of a changing world: Strengthening education for the 21st century. Washington: US Government Printing Office.
- [63]Weinstein, G., & Fantini, M. D. (1971). Toward humanistic education: A curriculum of affect. New York: Praeger.
- [64]Willis, G., Shubert, W., Bullough, R. V., Kridel, C., & Holton, J. T., (Eds.) (1993). The American curriculum: A documented history. Westport: Greenwood Press.
- [65]Wright, J., & Muller-Landau, H. (2006). The future of tropical forest species. Biotropica, 38, 287-301. doi:10.1111/j.1744-7429.2006.00154.x

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