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IMPROVING PUBLIC ADMINISTRATION THROUGH THE APPLICATION OF AN INSTRUCTIONAL DESIGN APPROACH: IMPLICATIONS FOR RESEARCH IN PUBLIC ADMINISTRATION EDUCATION

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In October 1990, an article in the Chronicle of Higher Education **stated** that: "For teaching to gain prestige in higher education, faculty members must make pedagogy a 'subject of scholarly debate" (Watkins, **1990**, **p.A11**. This article goes on to quote Lee S. Shulman, a professor of education at Stanford University, as saying: Teaching will be considered a scholarly activity only when professors develop 'a conception of **pedagogy** that is very tightly coupled to scholarship in the disciplines themseives" (p. Al 1). Commanding a professional base of knowledge of subject matter with knowledge of how to teach it effectively to others is the classroom primary purpose of

research (Cross, 1990). Certainly there]. are *many opportunities to conduct scholarly research in public cidministration education. The purpose of this effort is to identify some research questions that emerge from applying one specific approach- instructional design to the development of public --administration courses.'

. Instructional **design** is said to **involve** "organizing **and** using tools of **the** mind and tools of learning to **improve** the conduct of education and **training**" (Johnson, 1989, p.3). "it is **a** process and a set of products, **brought** about by **a designer** with **specific** skills" (Van **Patten**, 1989, p. **30**). Van **Patten** goes on to say:

> The process concerns the generation and evaluation of information for engineering efficient and effective solutions to knowledge and skill needs. The products of instructional design are project-specific in that they are design

specifications for a particular knowledge of skill need (p. 30).

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In addition, the instructional design approach, in contrast to the traditional approach, Consciously uses a systematic process to create instruction. The generic process of instructional design includes the 'following steps: . ,

I. Needs assessments; 2. Specifications Of broad goals and detailed objectives or learning outcomes; 3. Analysis of learner

characteristics: 4. Specification o f instructional strategies based on objectives and learner analysis - 4 (Johnson, 1989, p. 13). The need for further research, relevant to the public administration community, in these steps will be discussed in the remainder of this paper. 1 12 加速设施 N ... 2001 . • Needs Assessments: . Various needs assessments document the desired performance of public, administration practitioners. These assessments include the efforts of Watt. Parker. and Cantine, (1973); Kerrlgan and **Hinton**. (1970); S. Wyman, (1981); the US Department of Housing and Urban Development, (1975); and the National Training and Development Service [NTDS] (1975). 'A more recent effort resulted in a draft report

called Guidelines on . Local Governmen t Management Education produced by the ICMA/NASPAA Task Force on Local Government Education (1989). Still more work needs to be done on this topic, as well as refinement to the research already completed. Obviously one aspect of the instructional design approach to public administration that requires continuous research is the identification of the educational/ training needs of public managers.

Identification of Desired Learning Outcomes: After the public management development needs have been specified student-oriented behavioral learning objectives (SOBLO's) can be developed (Wooldridge, 1987). Mager (1962) describes an objective as "... an intent communicated by a statement describing a' proposed change in a learner - a statement of what the ieamei is to be like when he has successfully completed a,, learning experience" (p. 3). The identification of student-oriented behavioral learning objectives (SOSLO) is an extremely important element in the educational planning process (Wooidridge, 1987). Analysis of Learner Characteristics: Knowles (1973), among others, points out that understanding how a person learns is a major requisite for a successful education program. The question of how a person learns is'the major focus of the concept of learning style (Piggy Busch & Lacy, 1980). Studies have shown that identifying a student's learning style and then providing appropriate instruction in response to that style can contribute to more effective learning (Claxton & Murrell, 1987). Keefe (1979) has developed the following definitions of key concepts in the learning style . 22 construct

> Learning Styles and characteristic, cognitive, affective, and physiological behavior: that serve as relatively stabld indicators of how learners perceive, interact with, and respond to the learning environment. Cognitive Styles are "Information processing habits representing the learner's typical mode of per-ceiving, thinking, problem 'solving, "and remembering." The term,

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Affective Styles, refers to those motivational processes viewed as the learner's typical mode of arousing, directing, and sustaining behavior. Physiological Styles are biologicallybased modes of response that are founded on sex-related differences, personal nutrition and health, and accustomed reactions ' to "the physical environment (pp. 4,8,11, & 15).

Under each of the **main** categories of **learning** styles, cognitive, affective and physiological, there are a variety of dimensions. Fortunately, not all **dimensions** have equal implications for improving the learning process. "Under each main category, Keefe (1979) identifies those dimensions having the greatest implications for **improvi**ng the learning process. Cognitive Styles: . . 'Perceptual modality preferences (Dunn, Dunn & Price); Field independence vs. dependence (Witken, et al.); Conceptual Tempo (Kagan); Leveling vs sharpening (Holzman; Gardner). Affective Styles: Conceptual level (Hunt: Dunn, et al.); Locus of control (Rotter): Achievement motivation (McClelland); Social motivation (Hill); and Physiological Styles: Masculinefeminine behavior (Maccoby and For a more detailed Jacklin). description of each of these learning styles see Keefe (1979), or the citation listed for the lead researcher Identified with each dlmenslon. Important **research** questions **include**: What are the important learning styles of the students in public administration courses? And what are their implications for the design and delivery of public administration education?

Specification o f Instructional Strategies: Within the past few years, some excellent work has been carried out that relates the effectiveness of different instructional methods (e.g. lectures, films, case studies, role playing etc.) to specific learning objectives (McCleary and McIntyre, 1972; Newstrom, 1980; Olivas and

Newstrom, 1981; and Carroll, Payne and Ivancevich, 1972). This literature can provide the public administration education community with some general guidelines that can assist in selection of instructional the methodology to achieve certain broad categories of learning objectives. Research needs to be carried out to determine what instructional methods are most effective to achieve what specific learning objective? Moreover, research needs to be conducted In the public administration education environment to test the "Contingency Approach to Instructional Design: (Wooldridge, 11 1978) that suggest the effectiveness of instructional an method is **"contingent"** upon both the leaking objective to be achieved and the " Al: Oakland Community College press. learning style of the participant. public administration education would **be** enhanced by research that provides an understanding of how the relative effectiveness of different teaching methods," optimal for a **specified** set of learning objectives, need to be mddified to take into account the differences In learning styles of Individual students. Conclusion

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Public administration education, as with other forms of higher education, is operating in an environment that calls for greater accountability and an increased assessment of the quality of its Instruction. Anything an academic department can do to improve its teaching process will respond to this legitimate demand from 1 the customers/clients of public administration education. To. paraphrase professor K. Patricia Cross of the University of- California at Berkeley, "For the public administration instructor to become 'better at teaching, he/she 'must' first become a student of learning.' Hopefully becoming a student of learning- while using the instructional design approach can also provide research opportunities for the public administration faculty.

REFERENCES Carroll, S.J., Paine, F.T., & Ivancevich 1 (1972). Relative effectiveness of training methods-expert opinion and research. Personnel psychology, 25. Claxton, C.S., & Murrell, P.H. (1987). Learning styles: Implications for Improving educational practices. (ASHE-ERIC Higher Education Reports, 1987; No. 4). Washington, DC: Association for Study of Higher Education.

Cross, K.P. (1990, May). The current status of classroom leamfng. Paper' presented at the meeting of the National Conference on College Teaching and Learning. Jacksonville, FL 🚎 🚮 👘

Dunn, R., Dunn, K., & Price, G.E. (1978). Learning style inventory manual. Lawrence, KS: price Systems.

Hill, J.E., & Nunnery, D.N. (1973). The educational science. Bloomfield Hills,

Holzman, P.S. & Klein, G.S. (1954). "Cognitive System-Principles of Leveling and Sharpening: Individual Differences in Assimilation Effects in Visual Time Error," Journal of Psychology, Vol. 37, 105-122.

Johnson, K.A. 1989. The foundations of instructional design. In K.A. Johnson & L.J. Foa (Eds.), Instructional Design: 🚲 New Alternatives for Effective Education -Iand Training. New York: Macmillan Publishing Company. STATISTICS AND AND

Kagan, J. (1966). "Reflection-Impulsivity: The Generality and Dynamics of Conceptual Tempo," Journal of Abnormal Psychology, Vol. 71, 17-24.

Keefe, J.W. (1979). Learning style: An overview. In J.W. Keefe (Ed.), Student Learning Styles: Diagnosing and Prescribing Programs, Reston, VA: 的原因 National Association of Secondary School Principals.

Kerrigan, J., & Hinton, D. (1970, April). Professional education public management perspectives. Paper presented at the American Society for public Administration Annual Conference; Baltimore, MD.

Knowles, M. (1973). The adult learner: An neglected species. Houston: Gulf Publishing.

Maccoby, E., & Jacklin, C.N. (1974, December). What we know and don't know about sex differences. Psychology **Today**. 109-112. A H W W MANAGER A W ALL

Magerl P (1962). Preparing Instructional objectives. Belmont, CA: Fearon.

McCleary, L.E., & McIntry e, K.E. (1972). Competency (Continued on page 5.)

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development and **university** methodology. The National Association of Secondary Schools Principals Bulletin.

- National Training & Development Service (1975). Request for proposals. Unpublished Manuscript, Washington, DC: National Training and Development Service.
- Newstrom, J.W. (1975). Selecting training methodologies. , Training and Development Journal, 29 (9), 12-16.
- Olivas, 니유 Newstrom, J. (1981). Learning through the use of simulation games. Training and Development Journal. 35, 63-66.
- Otto G.F. Glasser, R.P. (1970). The management of training: A handbook for training and development personnel. Reading MA: *Addison-Wesley.
- Pigg, K.E., Lawrence, B., & Lacy, W.B. (1980). Learning styles in adult education: A study of county extension agents. Adult Education. 30.233244.
- Rotter, J.B. (1966). "Generalized Expectancies for Internal Versus External Control of Reinforcements," Psychological Monographs, Vol. 80, No. 10, I-28.
- U.S. Department of Housing and Urban Development. (1975). Local chief executives' perception of policy making and management needs. Vols. | and II. Washington, DC: Center for Governmental Studies for the Office of Policy Development and Research.
- Van Patten, J. (1989). What is instructional design? In K.A. Johnson & L.J. Foa (Edd.). Instructional ucceyrin. New

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Alternatives for effective education and training. New York: I-Macmillan.

- Watkin, B.T. (1990, October 31). To enhance prestige of teaching, faculty members urged to make pedagogy focus of scholarly debate. The Chronicle of Higher Education_. _____ pp. Al 1, A12.
- Watt, G., Parker, P., & Cantine, R. (1973, June).' Roles of the urban administrator in the 1970's and the knowledge and skills required to perform these roles. Education for urban administration: Annals of the American Society of political and Social Sciences, 50-79
- Witkin, H.A., & Goodenough, D.R. (1981). Cognitive styles: Essence and oriains. New York: International University press.
- Wooldridge, B. (1978). New training directions: Learning styles can determine success Network News Washington | DC! National Training and Development Service.
- _____, (1987). Increasing the professional management orientation of public administration courses. American Review of Public Administration.
- Wyman, S. (1981). Practitioned versus academic expectations: Urban management, graduate ecu variant for the year 2000 Paper presented at the American Society for public Administration Annual Conference.