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GK-12 2009 Workshop

Workshop Agenda

NSF GK-12 2009 Solicitation

Access to Knowledge

- Anderson, J. L. (2004, fall). What is Democracy? *Kappa Delta Pi Record*, 41(1), 4-6.
- Goodlad, J. I. (2004, fall). Visitors from the American Past. *Kappa Delta Pi Record*, 41(1), 12-16.
- Mantle-Bromley, C. (2004, fall). Jazz at the Improv. *Kappa Delta Pi Record*, 41(1), 21-25.
- Narum, J. (2008, spring). Transforming Undergraduate programs in Science, Technology, Engineering, & Mathematics: Looking Back and Looking Ahead. *Liberal Education*, 94(2), 12-19.
- Trefil, J. (2008, spring). Science Education for Everyone: Why and What? *Liberal Education*, 94(1), 6-11.

Learning

- National Research Council (2000). *How People Learn: Brain, Mind, Experience, and School* (Expanded ed.). Washington, D.C.: National Academy Press.

Learning Styles

- Carter, C. Bishop, J. & Kravits, S. L. (2009). *Keys to success: building analytical, creative, and practical skills* (6th ed.). Upper Saddle River, NJ: Pearson.
 - Personality Spectrum Inventory (pp.76-78)
 - Intelligence Style Inventory (pp.72-74)

Language & Cultural Impact on the Learner

Guest Speaker: Sally Nathanson-Mejia

- True/False Statements – ELL Students
- Velarde, J. Always Moving. *Voices from the Fields: Children of Migrant Farmworkers Tell Their Stories*. (pp.20-25). New York: Scholastic, Inc.

Learners with Special Needs, Differentiation, Accommodation

Guest Speaker: Donna Sobel

- Acrey, A., Johnston, C., & Milligan, C. (2005, Nov/Dec). Using Universal Design to Unlock the Potential for Academic Achievement of At-Risk Learners. *Teaching Exceptional Children*. 38 (2), 22-38.
- Udvari-Solner, A., Villa, R. A., & Thousand, J. S. (2005). Access to the General Education Curriculum for All: The Universal Design Process. In R. A. Villa & J. S. Thousand (Eds.), *Creating an Inclusive School* (2nd ed.) (pp. 134-155). Alexandria, VA: Association for Supervision and Curriculum Development.

Equity & Diversity

- Johnson, A. G. (2006). Privilege, Oppression, and Difference. *Privilege, Power, and Difference* (2nd ed.) (pp.12-40). New York: McGraw-Hill.

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Issues in Math & Science: Article Jigsaw

- Ferry, T.R., Fouad, N.A., & Smith, P.L. (2000). The Role of Family Context in a Social Cognitive Model for Career-Related Choice Behavior: A Math and Science Perspective. *Journal of Vocational Behavior*, 57, 348-364.
- Harding, S. (1991). What is Feminist Science? *Whose Science? Whose knowledge? Thinking from women's lives* (pp.296-312). Ithaca, NY: Cornell University Press.
- Johnson, C. & Kritsonis, W.A. (2006). A National Dilemma: African American Students Underrepresented in Advanced Mathematics Courses. *Doctoral Forum National Journal for Publishing and Mentoring Doctoral Student Research*, 3(1), 1-8.
- Lee, O. (2005, winter). Science Education With English Language Learners: Synthesis and Research Agenda. *Review of Educational Research*, 75(4), 491-530.
- Linn, M.C. & Hyde, J.S. (1989). Gender, Mathematics, and Science. *Educational Researcher*, 18(8), 17-19, 22-27.
- Semali, L.M. & Kincheloe, J.L. (1999). Introduction: What is Indigenous Knowledge and Why Should We Study it?. In L.M. Semali & J.L. Kincheloe (Eds.), *What Is Indigenous Knowledge? Voices from the Academy* (pp.11-57). New York: Falmer Press.
- Smith, F.M. & Hausafus, C.O. (1997). Relationship of Family Support and Ethnic Minority Students' Achievement in Science and Mathematics. *Science Education*, 82(1), 111-125.
- Wang, D. B. (2004). Family background factors and mathematics success: A comparison of Chinese and US students. *International Journal of Educational Research*, 41, 40-54.

Inquiry-Based Lesson Development (5 E's)

- *The 5 E Instructional Model: A Framework for Inquiry-Based Instruction*. STEM Earth Central, University of Massachusetts, Retrieved December, 2008 from <http://umassk12.net/earth/>

Classroom Environment & Classroom Culture

- Ryan, A.M. & Patrick, H. (2001, Summer). The Classroom Social Environment and Changes in Adolescents' Motivation and Engagement During Middle School. *American Educational Research Journal*, 38, (2), 437-460.