

CENTER FOR INFORMAL LEARNING AND SCHOOLS

LIST OF PUBLICATIONS

JOURNALS

Adams, J., Tran, L.U., Gupta, P., & Creeden-O'Hurley, H. (2008). Sociocultural frameworks of conceptual change: implications for teaching and learning in museums. *Cultural Studies in Science Education*, 3(2), 435. Published.

Ash, D. Brown, C., Hunter, L., & Kluger-Bell, B. (2009). Creating hybrid communities using inquiry as professional development for college science faculty. *Journal of College Science Teaching*, 28(6), 68-76. Published.

Ash, D., Crain, R., Brandt C., Loomis, M., Wheaton, M., Bennett, C., (2007). Talk, tools, and tensions in informal science education: Tool for observing biological talk over time. *International Journal of Science Education*, 29, 1581. Published.

Ash, D., Loomis, M., Hohenstein J. (2005). 'What does it eat?: Questions as resources for bilingual families making sense of science in a marine discovery center, *Sinectica*, 26, 51. Published.

Avraamidou, L. & Evagorou, M. (2007). Travelling the road beyond the curriculum through a science fair. *Science Education Review*, 60, 60. Published.

Avraamidou, L., & Osborne, J. F. (2009). The role of narrative in communicating science", *International Journal of Science Education*, 31(12), 1683-1707. Published.

Bartels, D., Semper, R. J., & Bevan, B. (2010). Critical questions at a critical time: Reflections of the contributions of LSIE to museum practices. *Curator*, 53(2), 163-179. Published.

Bevan, B. & Xanthoudaki, M. (2008). Professional development for museum educators: Unpinning the underpinnings. *Journal of Museum Education*, 33(1), 107. Published.

Bevan, B. & Dillon, J. (2010). Broadening views of learning: Developing educators for the 21st century. *The New Educator*, 6(3/4), 167-180, vol. 6(3/4). Published.

Bevan, B. (2003). Learning to speak school, *ASTC Dimensions*, S/O, 14. Published.

Bevan, B. (2007). Transformation and the third space of school museum collaborations. *Cultural Studies in Science Education*, 29, 429. Published.

Bevan, B. (2007). When schools meet museums: Finding a third way. *ASTC Dimensions*, M/J, 3. Published.

CAISE Formal-Informal Partnerships Inquiry Group. (2011). Informal science institutions and teachers: partners in education. *ASTC Dimensions*, M/J, 4. Published.

Callanan, M. A., Siegel, D., & Luce, M. R. (2007). Conventionality in family conversations about everyday objects. *New Directions for Child and Adolescent Development*, 117(2007), 83. Published.

Callanan, M.A. (2006). Cognitive development, culture, and conversation: Comments on Harris and Koenig's 'Truth in testimony: How Children Learn About Science and Religion'. *Child Development*, 77, 525. Published.

Davies, S., McCallie, E., Simonsson, E., Lehr, J., & Duensing, S. (2008). Discussing dialogue: Perspectives on the value of science dialogue events that do not inform policy, *Public Understanding of Science*, 18(3), 338-353. Published.

DeWitt, J. & Osborne, J. (2008). Engaging students with science. In their own words. *School Science Review*, 330,109. Published.

DeWitt, J., & Hohenstein, J. (2010). School trips and classroom lessons: An investigation into teacher-student talk in two settings. *Journal of Research in Science Teaching*, 47(4), 454-473. Published.

DeWitt, J., & Hohenstein, J. (2010). Supporting student learning: A comparison of student discussion in museums and classrooms. *Visitor Studies*, 13(1), 41-65. Published.

DeWitt, J., & Osborne, J. (2010). Recollections of exhibits: Stimulated recall interviews with primary school children about science centre exhibits. *International Journal of Science Education*, 32(10), 1365-1388, Published.

DeWitt, J., & Osborne, J. (2007). Supporting teachers on science-focused school trips: Towards an integrated framework of theory and practice. *International Journal of Science Education*, 29, 685. Published.

Dillon, J. (2008). Discussion, debate and dialog: changing minds about conceptual change research in science education. *Cultural Studies of Science Education*, 3(2), 397. Published.

Dillon, J. and Osborne, J. (Eds), (2007). Special Issue: Research on Learning Science in Informal Contexts. *International Journal of Science Education*, 29(12). Published.

Dillon, J. (2009). On scientific literacy and curriculum reform. *International Journal of Environmental and Science Education*, 4(3), 201. Published.

Dillon, J. (2007). Researching science learning outside the classroom, *Journal of the Korean Association for Research in Science Education*, 27, 519. Published.

Downey, G.L., Lucena, J.C., Moskal, B., Bigley, T., Hays, C. Jesiek, B., Kelly, L., Lehr, J., Miller, J., & Nichols-Belo, A. (2006). The globally competent engineer: Working effectively with people who define problems differently. *Journal of Engineering Education*, 95(2). Published.

- Heath, C. C. & D. vom Lehn. (2008). Construing interactivity: enhancing engagement with new technologies in science centres and museums. *Social Studies of Science*, 38(1), 63. Published.
- Hohenstein, J. & Tran, L. (2007). The use of questions in exhibit labels to generate explanatory conversations in visitors. *International Journal of Science Education*, 29. Published.
- Lehr, J.L., McCallie, E., Davies, S., Caron, B.R., Gammon, B. & Duensing, S. (2007). The role and value of dialogue events as sites of informal science learning. *International Journal of Science Education*, 29. Published.
- Luce, M. R., & Callanan, M. A. (2009). Parents' object labeling: Possible links to conventionality of word meaning? *First Language*, 30(3-4), 270-286. Published.
- Manning, A., Glackin, M. and Dillon, J. (2009). Creative science lessons: Prospective teachers reflect on good practice. *School Science Review*, 90(332), 53. Published.
- Martin, L. (2004). An emerging research framework for studying informal learning and schools. *Science Education*, 88, 71. Published.
- McCallie, E., Simonsson, E., Gammon, B., Nilsson, K., Lehr, J., & Davies, S. (2007). Learning to generate dialogue: Theory, practice, and evaluation at the Science Museum's Dana Centre, London. *Museums & Social Issues*, 2(2), 165-184. Published.
- Meisner, R., vom Lehn D., Heath, C., Burch, A., Gammon, B. & Reisman, M. (2007). Participation at exhibits: Creating engagement with new technologies in science centres and museums. *International Journal of Science Education*, 29, 1531. Published.
- Mejia-Arauz, R., Rogoff, B., Dexter, A & Najafi, B. (2007). Cultural variation in children's social organization. *Child Development*, 78, 1001-1014. Published.
- Nundy, S., Dillon, J. & Dowd, P. (2009). Improving and encouraging teacher confidence in out-of-classroom learning: the impact of the Hampshire Trailblazer project on 3-13 curriculum practitioners. *Education*, 37(1), 61. Published.
- Ogawa, R., Loomis, M. & Crain, R. (2009). Social construction of an interactive science center: The institutional history of the Exploratorium. *Science Education*, 93, 269-292. Published.
- Ogawa, R., Crain, R., Loomis, M., Ball, T. & Kim, R. (2008). CHAT/IT: Towards conceptualizing learning in the context of formal organizations. *Educational Researcher*, 37(2), 83-95. Published.
- Osborne, J. (2006). Science must be fit for the future. *The Times Educational Supplement*, 4711, 33.
- Peckham, S.H., Diaz, D.M., Walli, A., Ruiz, G., Crowder, L.B., et al. (2007). Small-scale fisheries bycatch jeopardizes endangered pacific loggerhead turtles. *PLoS ONE*, 2(10), 1041. Published.

Phillips, M., Finkelstein, D. & Wever Frerichs, S. (2007). School site to museum floor: How informal science institutions work with schools. *International Journal of Science Education*, 29, 1489-1507. Published.

Rahm, J. & Ash, D. (2008). Learning environments at the margin: Case studies of disenfranchised youth doing science in an aquarium and an after-school program. *Learning Environments Research*, 11, 49-62. Published.

Siegel, D.R., Esterly, J, Callanan, M.A., Wright, R. & Navarro, R. (2007). Conversations about science across activities in Mexican-descent families. *International Journal for Science Education*, 29(12), 1447-1466. Published.

Siegel, D.R. & Callanan, M.A. (2007). Artifacts as conventional objects. *Journal of Cognition and Development*, 8, 183. Published.

Siegel, D.R., Esterly, J, Callanan, M.A., Wright, R. Navarro, R. (2007). Conversations about science across activities in Mexican-descent families, *International Journal of Science Education*, 29, 1447. Published.

Silva, K. G., Correa-Chavez, M. & Rogoff, B. (2010). Mexican-heritage children's attention and learning from interactions directed to others. *Child Development*, 81(3), 898-912. Published.

Simon, S., Erduran, S. & Osborne J.F. (2006). Learning to teach argumentation: Research and development in the science classroom, *International Journal of Science Education*, 28(2-3), 235. Published.

Tlili, A., Gewirtz, S. & Cribb, A. (2007). New labour's socially responsible museum: Roles, functions and greater expectations. *Policy Studies*, 28(3), 269-289. Published.

Tlili, A. (2008). Behind the Policy Mantra of the Inclusive Museum: Receptions of Social Exclusion and Inclusion in Museums and Science Centres. *Cultural Sociology*, 2(1), 123-147. Published.

Tlili, A. (2008). The organisational identity of science centres. *Culture and Organization*, 14(4), 309-323. Published.

Tran, L. U. & King, H. (2007). The professionalization of museum educators: The case in science museums. *Museum Management & Curatorship*, 22(2), 129-147. Published.

Tran, L. U. (2007). Teaching science in museums: The pedagogy and goals of museum educators. *Science Education*, 91(2), 278-297. Published.

Tran, L., (2008). The work of science museum educators. *Museum Management and Curatorship*, 23(2), 135. Published.

Tran, L.U. (2008). Comment: Dialogue in education, *Journal of Science Communication*, 7(1). Published.

Valle, A., & Callanan, M. (2006). Similarity comparisons and relational analogies in parent-child conversations about science topics. *Merrill-Palmer Quarterly*, 52, 96. Published

vom Lehn, D. (2006). Die Kunst der Kunstbetrachtung: Aspekte einer pragmatischen Ästhetik in Kunstaustellungen. *Soziale Welt*, 57(1), 83-100. Published.

vom Lehn, D. (2010). Examining 'response': Video-based studies in museums and galleries", *International Journal of Culture, Tourism and Hospitality Research*, 4(1), 33-43. Published.

Wheaton, M. & Ash, D. (2008). Exploring middle school girls' Ideas about science at a bilingual marine science camp. *Journal of Museum Education*, 33(2), 131. Published.

BOOKS

Anthony, R.J., Yore, L.D., Coll, R.K., Dillon, J., Chiu, M-H., Fakudze, C., Grimberg, I. & Wang, B-J. (2009). Research ethics boards and the gold standard(s) in literacy and science education research. In M.C. Shelley II, L.D. Yore and B. Hand (Eds.), *Quality Research in Literacy and Science Education* (511-557). New York: Springer. Published.

Ash, D. (2008). Ann Leslie Brown: A Biography. In E. M. Anderman, E.M. & Anderman, L. (Eds.), *Psychology of Classroom Learning: An Encyclopedia*. Detroit: Macmillan Reference. Published.

Ash, D. (2008). Communities of Learners. In E. M. Anderman, E.M. & Anderman, L. (Eds.), *Psychology of Classroom Learning: An Encyclopedia*. Detroit: Macmillan Reference. Published.

Ash, D, Tellez, K., & Crain, R., (2008). The Importance of Objects in Talking Science: The Special Case of English Language Learners. In Bruna, K & Gomez, K.(Eds.), *The Work of Language in Multicultural Classrooms: Talking Science, Writing Science* (269-288). New York: Routledge. Published.

Bevan, B. (2005). Starting with what we know: A CILS framework for moving from physical to virtual science learning environments. In L. Tan, & R. Subramaniam (Eds.), *E-learning and virtual science centers* (68-92). Hershey, PA: Information Science Publishing. Published.

Bevan, B., Bell, P., Stevens, R., & Razfar, A. (Eds.). (2012). *LOST Opportunities: Learning in Out-of-School Time*. Dordrecht, The Netherlands: Springer. Published.

Callanan, M., & Braswell, G. (2006). Parent-child conversations about science and literacy: Links between formal and informal learning. In Bekerman, Z., Burbules, N. C. & Silberman-Keller, D., *Learning in Places: The Informal Education Reader* (123-138). New York: Peter Lang Publishers. Published.

Callanan, M., Valle, A., & Azmitia, M. (2007). Expanding studies of family conversations about science through video analysis. In Goldman, B. Barron, R. Pea & Derry, S. (Eds.), *Video Research in the Learning Sciences*. New York: Routledge. Published.

Coll, R.K., Chang, W-H, Dillon, J., Justi, R., Mortimer, E., Tan, K.C.D., Treagust, D. & Webb, P. (2009). An international perspective of monitoring educational research quality: Commonalities and differences. In Shelley, M.C., Yore, L.D. & Hand, B. (Eds.), *Quality Research in Literacy and Science Education: International Perspectives and Gold Standards* (107-137). New York: Springer. Published.

Corrigan, D., Dillon, J. & Gunstone, R. (Eds.). (2007). *The Re-emergence of values in the Science Curriculum*. Rotterdam: Sense Publishers. Published.

Dillon, J. & Reid, A. (2007). Science, the environment and citizenship: teaching values at Minstead Study Centre. In Corrigan, D., Dillon, J. & Gunstone, R. (Eds.), *The Re-emergence of Values in the Science Curriculum* (77-88). Rotterdam: Sense Publishers. Published.

Dillon, J. (2007). An organic intellectual: On science, education, and the environment. In K. Tobin & W.-M. Roth (Eds). *The Culture of Science Education: Its History in PersonBibliography* (311-322). Rotterdam: Sense Publishers. Published.

Dillon, J. & Wals, A. (2006). On the dangers of blurring methods, methodologies and ideologies in environmental education research. In A. Reid. & W. A. H. Scott (Eds.) *Environmental Education Research: The First Ten Years of the Journal*. London: Routledge. Published.

Dillon, J. (2006). An Organic Intellectual? On Science, Education, and the Environment. In Tobin, K & Roth, W.M. (Eds.)*The Culture of Science Education: Its History in Person* (311-322). Rotterdam: Sense Publishers. Published.

Duensing, S. (2006). Culture matters: Informal science centers and cultural contexts. In Bekerman, Z., Burbules, N. C. & Silberman-Keller, D., *Learning in Places: The Informal Education Reader* (181-202). New York: Peter Lang Publishers. Published.

Evagorou, M. & Dillon, J. (2009). Infusing thinking skills in the science classroom: System thinking and argumentation as a means to engage students in the process of reasoning. In I. M. Saleh & M. S. Khine (Eds.), *Fostering Scientific Habits of Mind: Pedagogical Knowledge and Best Practices in Science Education*. Rotterdam: Sense Publishers. Published.

Hohenstein, J. & King, H. (2007). Learning in and out of the classroom. In J. Dillon & M. Maguire (Eds.) *Becoming a teacher: Issues in secondary teaching* (3rd edition). Milton Keynes: Open University Press. Published.

Moore, L. C. 2005. Language socialisation, in Linguistic Anthropology. In Sujoldzic, A. (Ed.), *Encyclopedia of Life Support Systems (EOLSS)*. Oxford, UK: UNESCO. Published.

Moore, L. (2005). Language socialization and second/foreign language pedagogy. In P. Duff (Ed.), *Encyclopedia of Language and Education, Volume 8: Language Socialization*. Norwell, MA: Kluwer Academic Publishers. Published.

Moore, L. & Moritz, M. (2006). Mini Conference with Poster Presentations. In P. Rice & D. McCurdy (Eds.), *Teaching Strategies in Anthropology* (4th edition). Upper Saddle River (NJ): Prentice Hall. Published.

Osborne, J. & Dillon, J. (2010). *Practice in science teaching: What research has to say*. Maidenhead, UK: Open University Press. Published.

Rogoff, B., Correa-Chavez, M. & Silva, K.G. (2009). Cultural variation in children's attention and learning. M.A. Gernsbacher, D. Pew, L. Hough & J.R. Pomerantz(Eds.), *Psychology and the real world: Essays illustrating fundamental contributions to society* (154-163). New York: Worth Publishers. Published.

Rogoff, B., Moore, L., Najafi, B., Dexter, A., Correa-Chavez, M., & Solis, J. (2007). Children's development of cultural repertoires through participation in everyday routines and practices. In J. Grusec & P. Hastings (Eds.), *Handbook of socialization*. NY: Guilford. Published.

Semper, R., Martin, L. & Duensing, S. (2004). Funding and Institutional Issues Related to Public Understanding of Research. In Chittenden, D., Farmelo, G. and Lewenstein, B.(Eds.), *Creating Connections, Museums and the Public Understanding of Science*. Lanham, MD: Altamira Press.

Stevenson, R. and Dillon, J. (Eds) (2010). *Engaging Environmental Education: Learning, Culture and Agency*. Sense Publishers, Rotterdam, The Netherlands. Published.

vom Lehn, D. & C. Heath (2007). Social interaction in museums and galleries: a note on video-based field studies. In Goldman, B. Barron, R. Pea, & Derry, S. (Eds.), *Video Research in the Learning Sciences* (287-301). New York: Routledge. Published.

OTHER ONE-TIME PUBLICATIONS

Bevan, B. (2011). *Learning as Phenomenon*. Technical Report. San Francisco: Exploratorium. Published.

Bevan, B. (2011). *The Role of the Exploratorium: Imagination as a Driver of Science Learning*. Technical Report. San Francisco, Exploratorium. Published.

Bevan, B. with Dillon, J., Hein, G.E., Macdonald, M., Michalchik, V., Miller, D., Root, D., Rudder, L., Xanthoudaki, M., & Yoon, S. (2010). *Making Science Matter: Collaborations between informal science education organizations and schools*. Center for Advancement of Informal Science Education. Technical Report. Published.

Kendall, S., Murfield, J., Dillon, J. and Wilkin, A. (2006). *Education outside the classroom: Research to identify what training is offered by initial teacher training institutions*. London: National Foundation for Educational Research. Research Report. Published.

King, H., Acher, A & Dillon, J, (2007). Lessons from Pencil: Recommendations for future projects. ECSITE Newsletter. Published.

Osborne, J. & Dillon, J (2008). *Science Education in Europe: Critical Reflections*. London: The Nuffield Foundation. Research Report. Published.

Tytler, R., Osborne, J., Williams, G., Tytler, K., Clark, J. C., Tomei, A., et al (2008). Opening up pathways: Engagement in STEM across the Primary-Secondary school transition. A review of the literature concerning supports and barriers to Science, Technology, Engineering and Mathematics engagement at Primary-Secondary transition. Commissioned by the Australian Department of Education, Employment and Workplace Relations. Melbourne: Deakin University. Research Report. Published.