

# What's New

## Adventure-Based Learning Research, Literature, Resources and Information

by Dr. Jim Cain, Teamwork & Teamplay

A few years ago, I had the opportunity to write an adventure-based teambuilding book, and during the research for that book, I researched quite a few articles, books and publications on the significance of adventure-based learning techniques. I thought I would share these articles and resources with you, for two reasons. First, we live in a world where what we do, and how we perform is constantly evaluated and scrutinized. Few educational programs, leadership and sport programs have the luxury of funding curriculums which do not produce the measurable and desirable results mandated in our present educational systems. It is my hope that a few of these resources may prove valuable to you as you attempt to justify or obtain academic credibility for utilizing adventure-based programs. Secondly, in the interest of sharing best practices, increasing the knowledge base and generally familiarizing both faculty and administration about adventure and experiential-based learning, I hope these references will find their way onto your desks and bulletin boards and into your lesson plans and curriculum projects.

I've managed to place some of the top references in this article, with seven significant resources first. More than 2000 can be found in the book, *Teamwork & Teamplay*, by Jim Cain and Barry Jolliff. Many significant articles on adventure-based education and learning can also be found in journals, periodicals, microfilms, magazines, books, websites and newspaper articles. This information can be located using search keywords such as: teamwork, teambuilding, outdoor education, ropes course, challenge education, adventure-based education, experiential education, recreation, groupwork and outdoor training.

### Basic Training

If you don't have the time or resources to manage this entire list, try these first seven resources.

- **Adventure Education and Outward Bound: Out-of-Class Experiences That Make a Lasting Difference**

John Hattie, H. W. Marsh, James T. Neill, and Garry E. Richards, *Review of Educational Research*, Spring 1997, Volume 67, Number 1, pages 43-87. Recommended by Dan Garvey, previously of UNH and now of Prescott College, and includes even more resources and references

- **Strengthen Experiential Education within Your Institution - A Sourcebook by the National Society for Experiential Education**

Jane C. Kendall, John S. Duley, Thomas C. Little, Jane S. Permaul, Sharon Rubin, 1986, (formerly of Raleigh, NC now of Arlington, VA). ([www.nsee.org](http://www.nsee.org)) An older, but interesting text, filled with ideas about gathering support for experiential programs in your school.

- The American Camping Association (ACA) now includes on their website, research and information related to education and camping programs, at the Camp Knowledge Center:

[www.acacamps.org/knowledge](http://www.acacamps.org/knowledge) [www.acacamps.org/research](http://www.acacamps.org/research)

The following four texts can provide a historical perspective, excellent programming techniques, and a wide variety of activities and additional resources for adventure and experiential-based learning programs.

- **Adventure Education**

by John C. Miles and Simon Priest, 1990, Venture Publishing, Inc. State College, PA Phone (814) 234-4561 ISBN 0-910251-39-8. May be out-of-print, check your local library.

- **Adventure Programming**  
by John C. Miles and Simon Priest, 1999, Venture Publishing, Inc. State College, PA Fax (814) 234-1651 ISBN 1-892132-09-5.
- **Teamwork & Teamplay**  
by Jim Cain and Barry Jolliff, 1998, Kendall Hunt Publishers, Dubuque, IA  
Phone: (800) 228-0810 ISBN 0-7872-4532-1
- **The Book on Raccoon Circles**  
by Jim Cain and Tom Smith, 2002, Learning Unlimited Publishers, Tulsa, Oklahoma,  
Phone: (888) 622-4203 ISBN: 0-9646541-6-4

## Periodical and Journal Articles

- Anonymous, "Outdoor Education Directory: Organizations Involved in Outdoor Experiential Education," March 1993, ERIC Document ED 357944 Argyris, Chris, "Teaching Smart People How To Learn," Harvard Business Review, May-June 1991, pages 99-109.
- Association for Experiential Education, "Programs Granting Academic Credit and/or Degrees," Journal of Experiential Education, Number 1, Spring 1979, pages 17-27.
- Backus, Laurie, "Outdoor and Adventure Programs: Complementing Individual Education Programs and Treatment Plan Objectives," Practical Pointers, AAHPERD, Volume 4, Number 1, July 1980.
- Bales, K.B., "Experiential Learning: A Review and Annotated Bibliography," Journal of Cooperative Education, Volume 16, Fall 1979, pages 70-90.
- Bennet, D.B., "Four Steps to Evaluating Environmental Education Learning Experiences," Journal of Experiential Education, Volume 20, Number 2, 1988, pages 14-21.
- Bonwell, C.C. and Eison, J.A., "Active Learning: Creating Excitement in the Classroom," ASHE-ERIC Higher Education Report No. 1, Washington, D.C.
- Braun, Joseph A. and Brown, Max H., "Challenging Student Teachers," Phi Delta Kappan, Volume 65, Number 9, May 1984, pages 601-602.
- Carver, R., "Theory for Practice: A Framework for Thinking About Experiential Education," Journal of Experiential Education, Volume 19, Number 1, 1996, pages 8-13.
- Clements, Christine, et. al., "The Ins and Outs of Experiential Training," Training and Development, Volume 49, Number 2, February 1995, pages 52-56.
- Cross, P.K., "The Coming of Age of Experiential Education," National Society for Experiential Education Quarterly, Volume 19, Number 3, 1994, pages 22-24.
- Dickey, H.L., "Outdoor Adventure Training," Journal of Physical Education and Recreation, Volume 49, Number 4, April 1978, pages 34-35.
- Erickson, Susan and Harris, Buck, "The Adventure Book: A Curriculum Guide to School Based Adventuring with Troubled Adolescents," Wilderness School, Goshen, Conn., 1980 ERIC Document ED 200381.
- Evans, M., "Experiential Learning in Higher Education: Peripheral or Central?" The CAEL Forum and News, Volume 17, Number 2, 1994, pages 31-34.
- Ewert, Alan, "Theoretical Foundations of Outdoor Adventure Activities," Outdoor Recreation Research Journal, Volume 2, 1987, pages 3-16.
- Frant, R.D., "Learning Through Outdoor Adventure Education," Teaching Exceptional Children, Volume 14, Number 4, February 1982, pages 146-151.
- Froiland, Paul, "Action Learning - Taming Real Problems in Real Time," Training, Volume 31, Number 1, January 1994, pages 27-34.
- Gray, Tonia and Patterson, John, "Effective Research into Experiential Education: A Critical Resource in its Own Right," Proceedings of the 22nd Annual AEE Conference, Austin, Texas, November 1994, pages 138-145.
- Grenier, Jacques, "Directory of Outdoor Education in Canadian Universities," May 1981, ERIC Document ED 209054.
- Hanna, Glenda, "Overcoming Barriers to Implementing Outdoor and Environmental Education," Pathways, Volume 6, Number 1, December 1993, pages 24-28.

- Harvey, Judy, "Challenge Education at New Garden Friends School," *Phi Delta Kappan*, Volume 65, Number 9, May 1984, pages 604-605.
- Herdman, Paul, "Adventure in the Classroom," *Journal of Experiential Education*, Volume 17, Number 2, August 1994, pages 18-25.
- Hollandsworth, J.G., "A School-Based Outdoor Adventure Program," *North Carolina Journal of Outdoor Education*, Volume 2, Number 1, Fall 1980, pages 24-26.
- Huberstone, Barbara and Lynch, Pip, "Girls Concepts of Themselves and Their Experiences in Outdoor Education Programmes," *Journal of Adventure Education and Outdoor Leadership*, Volume 8, Number 3, Fall 1991, pages 27-31.
- Kesselheim, A.D., "A Rationale for Outdoor Activity as Experiential Education: The Reason for Freezin'," paper presented to the Conference on Outdoor Pursuits in Higher Education, Boone, North Carolina, ERIC Document Number ED 148 530.
- Knapp, Clifford E., "Lasting Lessons: A Teacher's Guide to Reflecting on Experience," 1992, ERIC Document ED 348204.
- Little, C., "Developing a High School Adventure Program - Persistence and Innovation," *Journal of Outdoor Education*, Volume 10, Number 1, 1975, pages 22-25.
- Metzger, Devon J., "Practicing What We Preach: Involving Student Teachers in Their Own Learning," *Action in Teacher Education*, Volume 10, Number 4, Winter 1989, pages 15-18.
- Miles, J.C., "The Value of High Adventure Activities," *Journal of Physical Education and Recreation*, Volume 49, Number 4, April 1978, pages 27-28.
- Ongena, J., "Adventure Education: An Opportunity to Teach Youth Self Confidence and Respect," *NASSP Bulletin*, Volume 66, Number 454, May 1982, pages 71-78.
- Ongena, J., "Should our Schools Offer Adventure Education?," *Canadian Association for Health, Physical Education and Recreation, Journal*, May/June, 1984, pages 4-7.
- Petrus, E.F., "Teaching Group Dynamics in an Intensive Small Group Laboratory in a Wilderness Setting," 1977, ERIC Document ED 152-604.
- Phipps, Maurice L., "Group Dynamics in the Outdoors - A Model for Teaching Outdoor Leaders," ERIC Document ED356935.
- Priest, Simon and Gass, Michael, "Five Generations of Facilitated Learning From Adventure Experiences," *Journal of Adventure Education and Outdoor Education*, Volume 10, Number 3, 1995, pages 23-25.
- Project Adventure, *Teaching through adventure: A practical approach*, 1976, Hamilton, Mass, ERIC Document ED 148548.
- Riggins, R.D., "Effective Learning in Adventure-Based Education: Setting Directions for Future Research," *Journal of Environmental Education*, Volume 18, Number 1, 1986, pages 1-6.
- Riley, Cheryl L., "Ideas that Work for Outdoor Teachers and Leaders," *Proceedings of the National Outdoor Education Conference*, October 1985, Potosi, Missouri, ERIC Document ED 259863.
- Roland, Christopher; Summers, S.; Friedman, M.; Barton, G. and McCarthy, K., "Creation of an Experiential Challenge Program", *Therapeutic Recreation Journal*, Volume 21, Number 2, 1987, pages 54-63.
- Savoy, Gordon, "Voyageurs '72: An Adventure Program for Eighth Grade Pupils, ERIC Document ED 085150, 1972.
- Sills, Robert, et. al., "When Teachers Are the Students," *Vocational Education Journal*, Volume 70, Number 2, February 1995, pages 24-29.
- Smith, Kemper D. III, "Beyond Wilderness Skills: Education for Individual and Group Development," April 1984, ERIC Document ED 252368.
- Sorohan, E.G., "We Do: Therefore We Learn," *Training and Development Journal*, Volume 47, Number 10, 1993, page 55.
- Sproul, Susan and Priest, Simon, "The Ropes Course as an Educational Tool," *Pathways: The Ontario Journal of Outdoor Education*, Volume 4, Number 2, February 1992, pages 9-12.
- Stahl, A., "Bridging the Gap Between Research and Teacher Education," *Journal of Education for Teaching*, Volume 17, number 30, 1991, pages 293-299.
- Stevens, Peggy Walker and Richards, Anthony, "Changing Schools Through Experiential Education," March 1992, ERIC Digest EDO-RC-91-13.

- Stutz, J.P. and Knapp, J., "Experiential Learning: An Annotated Literature Guide," CAEL Project Report, ERIC Document Number ED 148 859.
- Teaff, Joseph and Kablach, John, "Psychological Benefits of Outdoor Adventure Activities," Journal of Experiential Education, Volume 10, Number 2, Summer 1987, pages 43-46.
- Washbourn, P., "Experiential Learning: Is Experience the Best Teacher?" Liberal Education, Volume 82, Number 3, 1996, pages 10-15.
- West, June, "Team Building through Wilderness Activities in Eighth Grade Special Education," Conference Paper presented at Western States Communication Association Annual Meeting, February 1993, ERIC Document ED 371514, 35 pages.
- Whittaker, Tom, "Danger, Adventure Education and Schools," Journal of Physical Education, Recreation and Dance, Volume 52, Number 9, November/December 1981, pages 53-54.
- Wood, D., "Analyzing Adventure Education: Behavior Patterns, Relativizing Objectives, Sequencing Activities, and Discovering Student Perceptives," Unpublished Doctoral Dissertation, Boston University, 1978.
- Wurdinger, Scott, "Examining the Learning Process Used in Adventure Education," Journal of Adventure Education and Outdoor Leadership, Volume 11, Number 3, Fall 1994, pages 25-27.
- Yaffey, David, "The Value Base of Activity Experience in the Outdoors," Journal of Adventure Education and Outdoor Leadership, Volume 10, Number 3, Fall 1993, pages 9-11.

### **Books, Manuals, Texts and Guides Classics, Favorites and More.**

- Strengthening Experiential Education Within Your Institution by Jane Kendall, John Duley, Thomal Little, Jane Permaul and Sharon Rubin, National Society for Experiential Education, Raleigh, NC. ISBN 0-937883-00-X.  
[One of the most academic specific manuals ever published, with some useful ideas for instituting an experiential program.](#)
- Teamwork & Teamplay by Jim Cain and Barry Jolliff, 1998, Kendall Hunt Publishers (1-800-228-0810) ISBN 0-7872-4532-1.  
[Some of the finest ground level portable challenge and adventure activities ever collected, with building instructions and one of the best resource lists ever compiled for this field.](#)
- Into the Classroom: The Outward Bound® Approach to Teaching and Learning by Mitchell Sakofs and George P. Armstrong, 1996, Kendall Hunt Publishers ISBN 0-7872-6930-1.  
[Bringing the Outward Bound experience into the classroom.](#)
- Just Beyond the Classroom by Clifford E. Knapp, 1996, Clearinghouse on Rural Education and Small Schools, Charleston, WV ISBN 1-880785-15-3
- The Interlocken Difference - Four Decades of Experiential Learning and Community Building Worldwide by Amie Hill and Richard Herman, 1998, Kendall/Hunt Publishers, Dubuque, IA ISBN 0-7872-3548-2
- Experience and Education by John Dewey, 1938, MacMillian Publishing, NY.  
[A classic.](#)
- The Conscious Use of Metaphor in Outward Bound by Stephen Bacon, 1983, Colorado Outward Bound School, Denver, CO
- The Theory and Practice of Challenge Education by Thomas E. Smith, Christopher C. Roland, Mark D. Havens and Judity A. Hoyt, 1992, Kendall/Hunt, Dubuque, IA ISBN 0-8403-8042-9
- The Theory of Experiential Education by Karen Warren, Jasper Hunt and Mitch Sakofs, 1995, Third Edition, Association for Experiential Education, Kendall/Hunt, Dubuque, IA ISBN 0-7872-0262-2
- Outdoor Adventure Pursuits: Foundations, Models and Theories by Alan W. Ewert, 1989, Publishing Horizons, Inc., Scottsdale, AZ ISBN 0-942280-50-4  
[An in-depth text for understanding the components of adventure activities.](#)
- Joining Together - Group Theory and Group Skills by David W. Johnson and Frank P. Johnson, 1994, Allyn and Bacon, Boston, MA ISBN 0-205-15846-3.  
[Although set for the business world, applicable to the academic field as well.](#)
- The Well-Played Game - A Player's Philosophy by Bernard DeKoven, 1978, Anchor Books, Anchor Press/Doubleday, Garden City, NY ISBN 0-385-13268-9.

### Read it and understand.

- No Contest, The Case Against Competition - Why We Lose in Our Race To Win by Alfie Kohn, 1986, Houghton Mifflin Co. Boston, MA 02108 ISBN 0-395-39387-6  
[A fascinating tutorial on our infatuation with competition and the opportunities that exist for cooperative adventures.](#)
- Winning Is Everything and Other American Myths Thomas Tutko and William Bruns, 1976, Macmillan Publishing, NY ISBN 0-02-620770-2
- Evaluating Training Programs - The Four Levels by Donald L. Kirkpatrick, 1994, Berrett-Koehler, San Francisco ISBN 1-881052-49-4  
[Chapter 13, Evaluating an Outdoor-Based Training Program, includes commentary by Richard Wagner author of many significant challenged-based articles.](#)
- Lasting Lessons: a teacher's guide to reflecting on experience by Clifford E. Knapp, 1992, ERIC/CRESS Clearinghouse, Charleston, WV ERIC Document Number ED 348204.
- Processing the Experience - Strategies to Enhance and Generalize Learning by John L. Luckner and Reldan S. Nadler, 1997, Kendall / Hunt, Dubuque, IA ISBN 0-7872-1000-5 A classic.
- The Skilled Facilitator: Practical Wisdom for Developing Effective Groups by Roger M. Schwarz, 1994, Jossey-Bass, San Francisco, CA ISBN 1-55542-638-7

### **Websites**

- [The Association for Challenge Course Technology \(ACCT\)](http://www.acctinfo.org) [www.acctinfo.org](http://www.acctinfo.org)
- [The Association for Experiential Education \(AEE\)](http://www.aee.org) [www.aee.org](http://www.aee.org)
- [Teamwork & Teamplay](http://www.teamworkandteamplay.com) [www.teamworkandteamplay.com](http://www.teamworkandteamplay.com)
- [The Adventure Group](http://www.theadventuregroup.com) [www.theadventuregroup.com](http://www.theadventuregroup.com)

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Dr. Jim Cain is the author of the award winning adventure-based text Teamwork & Teamplay, which received the Karl Rohnke Creativity Award presented by the Association for Experiential Education. He is the former Executive Director of the Association for Challenge Course Technology, manager of the Cornell University Corporate Teambuilding Program and the Director of the adventure-based training company, Teamwork & Teamplay. Dr. Cain makes his home in Brockport, New York and frequently serves as a visiting professor and staff development specialist on subjects ranging from experiential education to challenge and adventure-based activities, and from recreational dancing and games leadership, to structural engineering, chaos and powder mechanics.

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