

**Ann Haley MacKenzie**  
(formerly Ann Haley-Oliphant)

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**EXPERIENCE**

**Associate Professor**

Department of Teacher Education, Miami University, Oxford, OH, Fall 1995-present

- Coordinator for the 400 student Adolescent/Young Adult Students Program consisting of eleven degree programs, oversee accreditation process, field experiences, and team supervision process.
- Responsible for teaching and advising in the area of science education; developed an inquiry life science course, teaching educational research courses and other EDT courses.
- Direction of a research agenda involving exemplary science teaching, conceptions of children regarding the inquiry process and equity issues in science education
- Participation in university wide activities involving teaching, curriculum, and science education
- Involvement at the national and international levels regarding exemplary teaching practices and biology education.

**Curriculum Consultant**

National Geographic Society; Harvard Astronomical Biological Sciences Curriculum Study (BSCS); American Association for the Advancement of Science (AAAS), 1990-present.

- Responsible for the creation, development, and writing of various educational chapters, teacher resources materials, and curriculum guides.

**Visiting Assistant Professor**

Department of Teacher Education, Miami University, Oxford, OH, Fall 1992-Fall 1995.

- Responsible for teaching and advising in the area of science education.
- Project Director for NSF's Ohio's State Systemic Initiative for the improvement of math and science education.

**Science Teacher**

Kings Local School District, Kings Mills, OH, Fall 1987-Fall 1992.

- Teacher for 9-12<sup>th</sup> grade science students.
- Courses taught include biology, physiology, and general science.

- Developed an Independent Science Research course; students achieved top ratings and special awards at regional and state science fairs.

### **Industrial Training Consultant**

General Electric Aircraft Engine Business Group, Cincinnati, OH, 1987, 1990.

- Responsible for the coordination, development, and editing of the reference guide for the “Engineering Operating Practices Course” which encompassed the 21 operational divisions of the business.
- Evaluator for GE instructors seeking certification in teaching “After Hours” courses.

### **Adjunct Instructor**

University of Cincinnati and Miami University, Fall 1986.

- Taught elementary science methods courses.
- Supervised student teachers in public schools.

### **Research Assistant and Graduate Teaching Assistant**

Department of Curriculum and Instruction, University of Cincinnati, 1983-84; 1985-86.

- Assisted Dean of Undergraduate Studies on projects dealing with status and placement of College of Education graduates.
- Co-taught preservice course for undergraduate education students.
- Supervised undergraduate students in public schools and evaluated videotaped microteaching experiences for the students.

### **Teaching Assistant**

Department of Biology, University of Missouri-St. Louis, 1982-83.

- Instructor of a non-majors biology lab course.
- Editor of the departmental newsletter.
- Developed the departmental zoological museum.

### **Curriculum Consultant**

Missouri Department of Conservation, Jefferson City, Missouri, 1982-83.

- Researched, designed and developed a 500 page conservation activities curriculum for grades 1-6.

### **Instructional Coordinator for Youth Programs**

Missouri Botanical Garden, St. Louis, MO, 1981-82.

- Responsible for teaching life science courses to students from area school districts, grades K-12.
- Responsible for the management, coordination, development and implementation of all youth programs.
- Trained and supervised the volunteer instructors.
- Developed and conducted teacher workshops.

### **Science Teacher**

Hazelwood School District, St. Louis, MO, 1979-81; Parkway School District, Summer 1980.

- Science teacher for 7-12<sup>th</sup> grade students.

## **EDUCATION AND CERTIFICATION**

Doctorate of Education degree in Curriculum and Instruction with a Science Education emphasis, August 1989, University of Cincinnati. Grade point: 4.0 out of 4.0.

Master of Education degree in Secondary Education, June 1987, University of Cincinnati. Grade point: 4.0 out of 4.0

Bachelor of Science in Biology and Biology Education, December 1978, Purdue University. Grade point: 5.7 out of 6.0.

Professional Certification in 7-12 General Science, Biology, and Chemistry.

Supervisor's Certificate in Science.

## **AWARDS**

Recognition for outstanding teaching at Miami University, 1993, 95-97, 99, 01, 02, 05, 10.

Award for Encouraging Excellence in Equity by the National Association of Biology Teachers, 2004.

1991 Presidential Award for Excellence in Secondary Science and Mathematics Teaching

1990 Ohio Teacher of the Year

1989 Project Excellence Teaching Award by the Warren County Area Progress Council

## **PUBLICATIONS**

### **Books**

MacKenzie, A.H. et.al (2006) **Glencoe Biology**. Columbus, OH: McGraw-Hill.

MacKenzie, A.H. (1999) **Earth Processes**. Washington, D.C.: National Geographic, p. 1-104.

Haley-Oliphant, A.E. (1998) **Tigers!** Washington, D.C.: National Geographic, p. 1-100.

Matyas, M. and Haley-Oliphant, A.E. (ed).. (1997) **Female Role Models in Science: Out of the Periphery and into the Core Curriculum** . Rockville, MD: American Physiological Society.

*Betsy Dresser: Reproductive Biologist*, p. 25-36.

*Judith Pachciarz: Microbiologist and Physician*, p. 69-78.

*Linda Laubenstein: AIDS Researcher*, p. 107-120.

*Sylvia Earle: Marine Biologist*, p. 139-150.

*Deborah Gordon: Behavioral Ecologist*, p. 151-172.

*Dian Fossey: Animal Behaviorist*, p. 191-202.

*Ynez Mexia: Botanist*, p. 203-216.

*Alice Huang: Molecular Geneticist*, p. 231-240.

*Mary-Claire King: Geneticist*, p. 257-268.

Haley-Oliphant, A. E. (ed). (1994) **Exploring the Place of Exemplary Science Teaching**. Washington, DC: American Association for the Advancement of Science.

Haley-Oliphant, A.E. and Behrens, L (1984) **Learning with Otis: A Conservation Education Activities Book, Vol. 1-6**. Jefferson City, MO: Missouri Department of Conservation.

## Chapters

Contributed two chapters to high school biology program **BSCS Biology: A Human Approach**. Dubuque, Iowa: Kendall/Hunt Publishing Company, 1997,

1. **The Cycling of Matter and the Flow of Energy in Communities**, Ch. 9 (p. 185-199);
2. **Interdependence Among Organisms in the Biosphere**, Ch. 15 (p. 321-340).

Contributed three chapters in **Teaching Hands-On Investigative Biology in High School "On a Shoestring."** Reston, VA: National Association of Biology Teachers.

**The Effect of Acid Rain on Living Things** , p. 31-46.

**Animal Behavior: Ethograms as Inquiry** , p. 73-88.

**Over the Counter Drugs**, p. 149-158.

Haley-Oliphant, A. E. (1994) *Exploring the place of exemplary science teaching*. In **Exploring the Places of Exemplary Science Teaching**, in Haley-Oliphant, A. E. (ed). Washington, DC: American Association for the Advancement of Science p. 1-11.

Haley-Oliphant, A. E. (1994) *The voices of exemplary science teachers*. In **Exploring the Places of Exemplary Science**, in Haley-Oliphant, A. E. (ed). Washington, DC: American Association for the Advancement of Science, p. 11-40.

Haley-Oliphant, A. E. (1994) *Exploration, risk-taking, and wonderment: Traveling to the margins of instruction*. In **Exploring the Places of Exemplary Science Teaching**, in Haley-Oliphant, A. E. (ed). Washington, DC: American Association for the Advancement of Science, p. 99-114.

Contributed eight (8) activities in George, Y., A., Worthington, V.L., and Malcom, S. (ed). (1994) **The AAAS Black Church Health Connection Project: Hands on Life Sciences Activities**. Washington, DC: American Association for the Advancement of Science.

*Wheel of drug disaster* p. 19-22.

*B.A.C. away from alcohol*. p. 36-39.

*Let's build a neuron*, p. 90-93.

*3-2-1 React!* p. 93-97.

*Traveling down memory lane without drugs!* p. 104-106.

*The big game of steroids: The athlete who lost!* p. 131-133.

*Dangerous dots of drugs*, p. 133-134.

*On the threshold of disaster!* p. 154-155.

Haley-Oliphant, A. E. (1993) **Partners in Preservation: An Environmental Education Program**. Dayton, OH: Mazer Corporation.

Haley-Oliphant, A. E. (1985) *International perspectives on the status and role of women in science*. In **Women in Science: A Report from the Field**, in Kahle, J.B. (Ed). Philadelphia, PA: Falmer Press, p. 169-192.

Haley-Oliphant, A.E. (1983) *Case Study C: Suburban education in the midwest*. In **Girls in School: Women in Science, Case Studies of Secondary Schools**. In Kahle, J.B. (Ed). Washington, D.C.: National Science Foundation, p. C-1-17.

## **Monographs and Bulletins**

Haley-Oliphant, A.E. ***An analysis of summative student portfolios as a method for self-study in teacher education practices***. Paper in the monograph of the international conference of the Self-Study of Teacher Education Practices (AERA), London, England, August 4-8, 1996.

## Journal Articles

MacKenzie, A.H. (2009). Preparing high school students for college science classes. *The American Biology Teacher*, 71, pp. 6-7.

MacKenzie, A.H. (2008). The necessity of students and teachers as science researchers. *The American Biology Teacher*, 70, pp. 518-519. Refereed-30% acceptance rate; Circulation- 9000.

MacKenzie, A.H. & Cartiff, B. (2008). Waiting for Godot: A reminder of the young adult learning experience. *The American Biology Teacher*, 70, pp. 454-455. Refereed-30% acceptance rate; Circulation- 9000; Contributed 70%.

MacKenzie, A.H. & Zinn, S. (2008). Encouraging student applications to concepts. *The American Biology Teacher*, 70, pp. 265-266. Refereed-30% acceptance rate; Circulation- 9000; Contribution-75%.

MacKenzie, A.H. (2008). What is taught in biology? Why does it matter? *The American Biology Teacher*, 70, pp. 262-263. Refereed-30% acceptance rate; Circulation- 9000.

MacKenzie, A.H. (2008). An analysis of environmental issues in 19<sup>th</sup> century England using the writings of Charles Dickens. *The American Biology Teacher*, 70, pp.202-206. Refereed-30% acceptance rate; Circulation- 9000.

MacKenzie, A.H. (2008). Call for action: Life altering environmental experiences. *The American Biology Teacher*, 70, pp. 198-199. Refereed-30% acceptance rate; Circulation- 9000.

MacKenzie, A.H. (2007). What makes us human? *The American Biology Teacher*, 69, pp. 522.

MacKenzie, A. H. (2007). Preserving bio-diversity in the wild: Celebrating diversity in our classrooms. *The American Biology Teacher*, 69, pp 518.

MacKenzie, A.H. (2007). Explaining the role of vocabulary in the biology classroom. *The American Biology Teacher*, 69, pp 262-263.

MacKenzie, A.H. (2006) Beyond the lab report: Why we must encourage more writing in biology. *The American Biology Teacher*, 68, pp 325-327.

MacKenzie, A.H. (2006) Learning cycle: What is the biological definition of life? *The American Biology Teacher*, 68, pp 330-331.

- MacKenzie, A.H. (2006) Quick Fix: What is a million? *The American Biology Teacher*, 68, pp 264.
- MacKenzie, A.H. (2005) BIOUpdate: The avian flu. *The American Biology Teacher*, 67, pp 521-523..
- MacKenzie, A.H. (2005) The Brain, the biology classroom, and kids with video games. *The American Biology Teacher*, 67, 517-518.
- MacKenzie, A.H. (2005). Ruffling the feathers of controversy in the biology classroom. *The American Biology Teacher*, 67, pp. 389-390.
- MacKenzie, A.H. (2005). Equity in biology education. *The American Biology Teacher*, 67, pp. 325-326.
- MacKenzie, A.H. (2005). Biology lives on through observation. *The American Biology Teacher*, 67, pp. 69-70.
- MacKenzie, A.H. (2005). Change, rebirth, and the phoenix within ABT. *The American Biology Teacher* 67, pp.5-6.
- Everholt, E. & MacKenzie (2005). A description of the design, implementation, and outcome of long-term stream monitoring programs in fifteen schools in the United States. *The Journal of Environmental Education*.
- MacKenzie, A.H. (2004). Challenge the dragon. *The American Biology Teacher* 66, pp. 533-534.
- MacKenzie, A.H. (2004). The role of inquisitive stance in biology teaching. *The American Biology Teacher* 66, pp. 469-470.
- MacKenzie, A.H. (2001) The role of teacher stance when infusing inquiring questioning into middle school science classrooms. *School Science and Mathematics* 101, 143-153.
- MacKenzie, A.H. (2001) Brain busters, mind games, and science chats. *Science Scope* 24(6), 54-58.
- MacKenzie, A.H. (2001). Planimal house. *Science Teacher*, 68, pp. 40-42.
- Haley-Oliphant, A. E. (1996). Inquiries for Teacher Pages. Contributing Editor, *Dragonfly* , 1, pp. 8-14.
- Johnston, J. H., Markle, G. and Haley-Oliphant, A.E. (1987). –About questioning in the classroom, . *Middle School Journal* 18(4), pp. 29-33.

Haley-Oliphant, A. E. and Kahle, J. B. (1979). The E's of effective teaching. *The Hoosier Science Teacher*, 5:1, p. 14-20;

### Reviews, abstracts

Haley-Oliphant, A.E. Expanded abstract and analysis of *Exploring relationships among elementary school students' interest in science, attitudes towards science, and reactive curiosity*, Harty, H. , Anderson, H.O., and Enochs, L.G. *School Science and Mathematics*, 84(4), 308-315. Review in **Investigations in Science Education**, 1986, 12 (3), pp. 27-36.

Haley-Oliphant, A. E. Expanded abstract and analysis of *The influence of previous exposure to science education on attitudes of preservice science teachers toward science teaching*, Taiwo, 'Diran. *Journal of Research in Science Teaching*, 17(4), 315-320. Review in **Investigations in Science Education**, 1986, 12(2), pp. 21-29.

### Research-Based External Evaluation Reports

MacKenzie, A.H. (2005) Evaluation of Phase II of the Ohio Centers of Excellence in the Northwest, Northeast and WestCentral Regions for Math/Science. Oxford, Oh: Miami University.

MacKenzie, A. H. (2005) Evaluation of Phase I of the Ohio Centers of Excellence in the Northwest, Northeast and WestCentral Regions for Math/Science. Oxford, Oh: Miami University.

MacKenzie, A. H. (1999). *Teaching SMART: Comprehensive qualitative evaluation report, 1994-1998*. Indianapolis, IN: Girls Incorporated, National Resource Center. Cited in the National Council for Research on Women's recent report *Balancing the equation: Where are women and girls in science, engineering, and technology?* (2001), p. 34-35, 39.

Haley-Oliphant, A.E. (1997). *External evaluation reports for the Howard Hughes Medical Institute*. Oxford, OH: Miami University

- Undergraduate research internship, pp. 1-53.
- CAMAS research fellows, pp. 1-24.
- Masters in the Art of Teaching (MAT) participants, pp. 1-14.

Haley-Oliphant, A.E. (1996). *External evaluation report for TOYS (NSF-funded Terrific Science Program, Miami University-Middletown), Scientists Doing Science- Student pre/post test data analysis*. Oxford, OH: Miami University, pp. 1-19.



Haley-Oliphant, A.E. (1996). *An evaluation of teaching science with TOYS: Site evaluation of Sandridge K-8 blended school in Lebanon, Oregon (NSF-funded Terrific Science Program, Miami University-Middletown)*, Oxford, OH: Miami University, pp. 1-29.

Haley-Oliphant, A.E. (1996). *An evaluation of teaching science with TOYS: Site evaluation of Ator Elementary and Smith Elementary, Owasso, OK (NSF-funded Terrific Science Program, Miami University-Middletown)*, Oxford, OH: Miami University, pp. 1-59.

Haley-Oliphant, A.E. (1996). *An evaluation of teaching science with TOYS: Site evaluation of Sunman-Dearborn Middle School in St. Leon, IN (NSF-funded Terrific Science Program, Miami University-Middletown)*, Oxford, OH: Miami University, pp. 1-43.

Haley-Oliphant, A.E. (1995). *External evaluation report for TOYS (NSF-funded Terrific Science Program, Miami University-Middletown), Student survey results: Cognitive and attitude*

### **Popular Press**

Haley-Oliphant, A.E. *Along Nature's Path*. Weekly nature column for children. St. Louis, MO: North County Journal Newspapers, 1981-87; Cincinnati, OH: Landen Living, 1987-1992.

## **PRESENTATIONS**

### **International Presentations**

MacKenzie, A.H. *Biology teaching and bioethics: genome and intellectual property*. Presented at the 2004 BioEd conference in Rio de Janeiro, Brazil, September 13-18, 2004.

Haley-Oliphant, A.E. *An analysis of summative student portfolios as a method for self-study in teacher education practices*. Presented at the international conference of the Self-Study of Teacher Education Practices (AERA), London, England, August 4-8, 1996.

Haley-Oliphant, A.E., *Enriching your life science curriculum with hands-on activities featuring role models*. Presented at the international meeting of the National Science Teachers Association, Ocho Rios, Jamaica, July 28-29-1995.

## **National Presentations**

MacKenzie, A.H & Bruns, T. Preservice Teacher's Attitudes Towards Using Video Games in the Secondary Classroom., AERA, Denver, CO, 2010.

Guichard, J., MacKenzie, A., Brown, S. *The Synergies of Project Based and Problem Based Learning in Writing Across the Curriculum Projects*. National Writing Across the Curriculum Conference, St. Louis, MO, Thursday, May 20, 2004.

MacKenzie, A.H. *Writing as Part of the Inquiry Process in Biology*. National Association of Biology Teachers, Chicago, IL, November 11, 2004.

MacKenzie, A.H. *Writing for The American Biology Teacher*. National Association of Biology Teacher, Chicago, IL, November 13, 2004.

MacKenzie, A.H. *The Enhancement of Reading, Critical Analysis, and Research Skills Through Biology*, National Association of Biology Teachers, Portland Oregon, Thursday, October, 9, 2003.

MacKenzie, A.H. *Meet the Biologist- The Multi-Genre Way*, National Association of Biology Teachers, Cincinnati, Ohio, October, 31, 2002.

MacKenzie, A.H. *PBL Amidst an Inquiry Life Science Course*. International Problem Solving Conference, Baltimore, MD, June 17, 2002.

MacKenzie, A. H. *Semiotics and Teacher Education*. Discussant. AERA, New Orleans, April 3, 2002.

MacKenzie, A. H. & Becker, M. Exploring the use of film clips in the biology classroom. National Association of Biology Teachers, Montreal, Canada, November 8, 2001.

MacKenzie, A.H. & Nolan, A. *Using simulations in the biology classroom*. National Association of Biology Teachers, Orlando, Florida, October 25-29, 2000

MacKenzie, A.H. & Sandro, L. *Winter biology and the goldenrod gall fly*. National Association of Biology Teachers, Orlando, Florida, October 25-29, 2000.

Invited keynote address. *Wonder and Inquiry in the Elementary Science Classroom*. Operation SMART Equity Conference, Rapid City, S.D., January 28, 1999.

MacKenzie, A. H. and Matyas, M. *Inquiry-based activities: Exciting, adaptable, and easy on you*. National Association of Biology Teachers, Reno, Nevada, November 4-7, 1998.

Haley-Oliphant, A. E. and Matyas, M. *Encouraging Reflection and Achievement With Biology Portfolios*, . National Association of Biology Teachers, Charlotte, NC, October 17, 1996.

Haley-Oliphant, A. E., and Dargart, J. A. *Analyzing students' perceptions of science inquiry: The development of the "Scientists Doing Science (SDS)" instrument using pictorial and written cues*. Proposal accepted for the national conference of the National Association for Research in Science Teaching, St. Louis, MO, April, 1996.

Haley-Oliphant, A. E., Lakes Matyas, M., Holbrook, A. M., and Adler, L. *A New View of Science: Bring Female Role Models into the Curriculum (Middle Level-High Level)*, Presented at the National Science Teacher's Association, National Meeting, St. Louis, March 29, 1996.

Invited address at the Partners for Terrific Science Invitational Conference on Replication, *Evaluation Results of the Partners Programs: Implications for Dissemination and Replication*, Dallas, TX, November 6, 1994.

Kahle, J. B., Haley-Oliphant, A. E., and Rogg, S. *Systemic Reform in Science Education: Coordinating Research Between an Urban Systemic Initiative and State Systemic Initiative in Ohio*. Proposal accepted for presentation at the Annual Convention of the National Association for Research in Science Teaching, Anaheim, CA, April 1994.

Haley-Oliphant, A. E., *Becoming a nationally board certified science teacher*, Annual Meeting, Atlanta, GA, April 18, 1993. Presentation for the National Science Teaching Association - Annual Convention, Anaheim, CA, April 1, 1994.

Haley-Oliphant, A., Hamilton, R., Broers, J., and Miles, K. *Implementing and Assessing Portfolios in Any Science Classroom*. Presentation for the National Science Teaching Association - Annual Convention, Anaheim, CA, April 1994.

Haley-Oliphant, A., & Matyas, M., and Gardener. *Female role models in science--out of the periphery and into the core curriculum*. Presentation for the National Science Teachers Association-- Annual Convention, Anaheim, CA, March 31, 1994

Haley-Oliphant, A. E., *Exploring the teaching of math and science in an urban setting: Emergent conversations regarding the ecological systems in a healthy classroom*. Presentation at the National Association for Research in Science Teaching, Annual Meeting, Anaheim, CA, March 31, 1994.

Haley-Oliphant, A. E., Kahle, J. B., and Riley, D. *Implementation of Summer Inservice Activities: A case study comparison*. A poster presentation at the Annual Meeting of the National Association for Research in Science Teaching, Anaheim, CA, March 26, 1994.

Haley-Oliphant, A. E., Maytas, M., and Gardener, A. *Female Role Models in Science: Out of the Periphery and Into the Core Curriculum*. National Association of Biology Teachers, Boston MA., November 18, 1993.

Haley-Oliphant, A. E., *A Metaphorical Analysis in the Margins of Instruction*. Presentation at the National Association for Research in Science Teaching, Annual Meeting, Atlanta, GA, April 18, 1993.

Haley-Oliphant, A. E., Kahle, J. B. and Perry, B., *The Role of Ohio's Statewide Systemic Initiative, Project Discovery, in Facilitating the Use of Inquiry in the Middle School Science Classroom*. Presentation at the National Association of Research in Science Teaching, Annual Meeting, Atlanta, GA, April 18, 1993.

Haley-Oliphant, A. E., *A Metaphorical Analysis of Science Lessons in a Middle School Classroom: Making Meaning in the Margins of Instruction*. Presentation at the National Association for Research in Science Teaching, Annual Meeting, Atlanta, GA, April 18, 1993.

Haley-Oliphant, A. E., *The Portfolios of Middle School Math and Science Teachers: The Stories Within the Evidence*. Presentation at the National Association of Researcher in Science Teaching, Annual Meeting, Atlanta, GA, April 16, 1993.

Kahle, J. B., Haley-Oliphant, A. & Perry, B. *The Role of Ohio's Statewide Systemic Initiative, Project Discovery. in Facilitating the Use of Inquiry in the Middle School Science Classroom*. National Association for Research in Science Teaching, Atlanta, GA, April 16, 1993.

Haley-Oliphant, A. E., Anderson, A. *Inquiry in the Science Classroom: The role of Project Discovery, the Ohio Statewide systemic Initiative*. Presented at the national meeting Association for the Educational Teachers of Science, Charleston, SC, January 29, 1993.

Haley-Oliphant, A.E. and Yinger, R.J. *Making meaning in the margins of lessons: An example from science instruction*. Presented at the annual meeting of the American Educational Research Association, Boston, MA, April 16-20, 1990.

Haley-Oliphant, A.E. and Pickard, D. *The environmental experience: Planning successful daytime or overnight outdoor excursions*. Presented at the annual

meeting of the National Association of Biology Teachers, San Diego, CA, October 25-29, 1989.

Haley-Oliphant, A.E., Gardner, A.L., and Duffy, E.M. *Equitable examples: Activities which focus on the contributions of women scientists*. Presented at the annual meeting of the National Association of Biology Teachers, San Diego, CA, October 25-29, 1989.

Mason, C.L., Gardner, A.L., Matyas, M.L., and Haley-Oliphant, A.E. *Contributions of women scientists: Developing user friendly activities with a historical perspective*. Presented at the annual meeting of the National Association of Biology Teachers, Chicago, IL, November 16-20, 1988.

Haley-Oliphant, A.E. *Planimal House: A hands on approach to animal and plant projects in the biology classroom*. Presented at the annual meeting of the National Association of Biology Teachers, Chicago, IL, November 16-20, 1988.

Haley-Oliphant, A.E. *Hypothetical situations in the biology classroom*. Presented at the annual meeting of the National Association of Biology Teachers, Cincinnati, OH, October 15-17, 1987.

Haley-Oliphant, A.E. *Activating interest and talent in biology for all students*. Presented at the annual meeting of the National Association of Biology Teachers, Cincinnati, OH, October 15-17, 1987.

Haley-Oliphant, A.E. *Teacher thinking-in-action regarding the use of hypothetical questions in a science classroom*. Presented at the annual meeting of the American Educational Research Association, Washington, D.C., April 20, 1987.

Haley-Oliphant, A.E. *Mind games: A study of hypothetical questioning in a science classroom*. Paper presented at the annual meeting of the National Association of Research in Science Teaching, Washington, D.C., April 24, 1987.

Haley-Oliphant, A.E. *Strategies for encouraging creativity in the science classroom*. Paper presented at the National Science Teachers Association, San Francisco, CA, March 28, 1986.

Haley-Oliphant, A.E. *What does Charles Dickens have to say to the science teacher?* Paper presented at the annual meeting of the National Association of Biology Teachers, Orlando, FL, November 2, 1985.

Haley-Oliphant, A.E. *Getting girls involved in science*. Paper presented at the annual meeting of the National Association of Biology Teachers, West Lafayette, IN, November 8-11, 1984.

Haley-Oliphant, A.E. *You can do it: Encouraging girls to excel in science.* . Paper presented at the annual meeting of the National Association of Biology Teachers, West Lafayette, IN, November 8-11, 1984.

Haley-Oliphant, A.E. *International status of women in science.* Paper presented at the annual meeting of the National Association of Biology Teachers, Philadelphia, PA, October 20-23, 1983.

Haley-Oliphant, A.E. *Plants, toilet tissue, and paper.* Paper presented at the annual meeting of the National Association of Biology Teachers, Philadelphia, PA, October 20-23, 1983.

### **c. Regional, State, and Local Presentations**

MacKenzie, A.H. *Careers in science.* Invited presentation at Finneytown Middle School, December 6, 2000.

MacKenzie, A.H. *Amazing girl scientists.* Invited presentation for 86 girls at the Museum of Modern Technology. LaCrosse, WI, November 11, 2000.

MacKenzie, A.H. *Infusing equity strategies into the school curriculum.* Invited keynote address, Museum of Modern Technology, LaCrosse, WI, November 11, 2000.

Haley-Oliphant, A.E. *Using science portfolios in your classroom.* Presented at the Science for Elementary Teachers Symposium, Warren County Educational Service Center, June 16-17, 1997.

Haley-Oliphant, A. E., *Portfolio Assessment - K-3, 4-8, and 9-12.* Southwest Regional Summer Science Institute Grades K-12, Sycamore High School, June 11-14, 1996.

Haley-Oliphant, A. E., *Portfolio Assessment - K-3, 4-8, and 9-12.* Southwest Regional Summer Science Institute Grades K-12, Laurel Oaks JVS, June 18-21, 1996.

Haley-Oliphant, A. E., *Science Educators Luncheon Meeting,* The Institute of Educational Renewal, Linking Conference, D. Russell Lee Career Center, March 1996.

Haley-Oliphant, A. E., *Portfolio Assessment* Southwest Ohio PDC 1995 Summer Science Institute, Sycamore High School, June 20, 1995

Invited address for the Kappa Delta Pi initiation, *Go out on a limb...Isn't that where the fruit is?* Miami University, Oxford, OH, April 12, 1994.

Haley-Oliphant, A. E., Brown, F., and Carnes, N., and Damnjanovic, A. *Inquiry and the Middle School Classroom: The Role of Ohio's Project Discovery in Facilitating Systemic Change*. Presented at the National Science Teacher's Association, Regional Meeting, Louisville, KY, February 11, 1994.

Haley-Oliphant, A. E., *Portfolios as an Assessment of Professional Growth and Development*, 1994 Ohio Conference on Teaching and Learning: Department of Education, Columbus, OH, February 28, 1994.

Co-chair of *Celebration of Teaching*. Sponsored by the Ohio Teachers of the Year for area high school students interested in becoming math and science teachers, Miami University, December 9, 1993.

Haley-Oliphant, A. E., Colton, A., Burrill, G., *Becoming a Nationally Board-Certified Teacher in Science or Math*. Science and Mathematics Education: Connecting Resources for Reform, Columbus, OH, December 3, 1993.

Haley-Oliphant, A. E., Brown, F., and Carnes, N. *Inquiry and the Middle School Classroom: The Role of Ohio's Project Discovery in Facilitating Systemic Change*. Presented at the National Science Teacher's Association, Regional Meeting, Louisville, KY, November 12, 1993.

Invited address for the Project Discovery Academic Year Workshop, *Portfolios: The other piece of assessment*. Miami University, September 18, 1992.

Invited address, *Go out on a limb- After all, isn't that where the fruit is?*, Sycamore Community Schools, Cincinnati, OH, August 20, 1992.

Invited address, *Go out on a limb...Isn't that where the fruit is?*, Perry Local School District, Perry, OH, August 22, 1991.

Invited panel presentation, *Educating for the future: Different points of view*, Ohio Association of Supervision and Curriculum Development Spring Conference, Columbus, OH, April 11, 1991.

Invited discussant leader, *National Board Certification*, Ohio Forum of the National Board for Professional Teaching Standards, Columbus, OH, January 4, 1991.

Invited address, *Living in the margins of our lives*. Butler County Retired Teachers Organization, Middletown, OH, October 25, 1990.

Invited address, *Moving our lives into unexpected avenues*. Project Excellence Academy Conference, Kings Mills, OH, September 27, 1990.

Invited address, *Venture to the margins: It is a trip you won't regret*. Continental Local School District, Continental, OH, August 27, 1990.

Invited address, *What's wrong with the 'center' of education?* Southwestern Ohio Education Association, Cincinnati, OH, May 8, 1990.

Invited address, *Moving students into the margins of education*. Buckeye Association of School Administrators annual convention, Columbus, OH, April 27, 1990.

Invited guest, *Mike Scinto Talk Radio Show*, WHIO Radio, Dayton, OH, February 27, 1990.

Invited address, *What are the E's of effective teaching?* Warren County Superintendents Meeting, Lebanon, OH, February 6, 1990.

### **Grants and External Funding**

MacKenzie, A.H. (2008-2009). External evaluator for "Six Star Science for Student-Centered Learning," National Institute of Health funded program for The American Physiological Society, \$750,000 grant.

MacKenzie, A.H. (2000). Case studies in *integrating science, math and technology in the middle and secondary school settings in Australia and the United States*, Hampton International Initiative, \$4420.

Haley-Oliphant, A.E. (1997). *Comparative analysis of children's perceptions of the work of scientists in France and the United States*, Hampton International Initiative, \$2,000.

Haley-Oliphant, A.E. and Matyas, M. L. (1997). *Destination equity*. Submitted by Miami University and American Physiological Society to NSF, Experimental Projects for Women and Girls, HRD-9618949, \$1,000,000. (Not awarded but a finalist).

### **Professional Service**

Editor, *The American Biology Teacher*, March 2004- 2009.

Director-At-Large (elected office at national level), National Association of Biology Teachers, 2000-2002; 2002-2005.

Advisor, Harvard-Smithsonian Center for Astrophysics, Essential Science: Life Sciences Project, 2001-2002.



Chairperson, Adolescent and Young Adult Science Committee, National Board for Professional Teaching Standards (NBPTS), 1991 – 1999.

Instructor for five (5) On-Line Dragonfly Workshops, Miami University, August-December, 2000.

Reviewer, National Science Teachers Association (NSTA), sciLINKS Project, reviewer of science education related websites, March-December, 2000.

Member, Selection committee for the *Presidential Awards for Excellence in Math and Science Teaching (PAESMT)*, Columbus, OH, May 10, 2000.

Reviewer, *The Science Teacher*, 2001-2004.

Reviewer, **School Science and Mathematics**, 2000-present.

Reviewer, **Teaching Education**, 1997-present.

Reviewer, **American Biology Teacher**, 1985 -2004.

Reviewer, AETS Monograph, *Science Teacher Preparation: An International Perspective*, February 1997.

Reviewer, Self-Study of Teacher Education Practices SIG (AERA), 1995 - present.

Reviewer, Division K Proposals, American Educational Research Association (AERA), 1990 -present.

Reviewer, University Education Certification Programs, State Department of Education, Columbus, OH, December, 1990.

Chairperson, *The Role and Status of Women in Science section*, National Association of Biology Teachers, 1986-87.

Member. *Editorial Board for the Center of Teaching Resources*, The Mazer Corporation, Dayton, OH: 1991 - present.

Member, *Public Relations Committee*, Association of Teacher Educators, 1995-1998.

Member, *Certification and Accreditation in Science Education (CASE)*, National Science Teachers Association, Annual Conference, St. Louis , MO, March, 1996.

Member, *New Biology Teacher Award Committee*, National Association of Biology Teachers, 1995-96.

Member, *JRST Awards Committee*, National Association for Research in Science Teaching (NARST), 1993-94.

Member, Executive Advisory Board, *Frontiers in Physiology*, American Physiology Society, Bethesda, MD, 1994-2000.

Member, *Advisory Committee for Science Curriculum Development*, The Cincinnati Zoo and Botanical Garden, July 1993 -1994.

Member, Executive Advisory Board, *Human Biology: Exploring New Dimensions*, Biological Sciences Curriculum Study (BSCS), 1993-1996.

Member, Advisory Board, *Connections Project Board*, American Association for the Advancement of Science, Washington: DC, 1993.

Member, *Superintendent of Public Instruction's Teacher Advisory Committee*, State Department of Education, Columbus, OH, January 1990-91.

Member, *the 1991 Ohio Teacher of the Year Selection Committee*, State Department of Education, Columbus, OH, October, 1990.

Member, *Local Arrangements Committee*, National Association of Biology Teachers (NABT) Annual Convention, Cincinnati, OH, 1987.

Member, *Membership Promotional Development Committee*, National Association of Biology Teachers, 1986-87.

### **Consulting and Service to other Agencies**

Consultant, *Earth Expeditions, Great Cat Conservation- Namibia*, August 4-15, 2006.

Consultant, *Cincinnati Enquirer*, Education Column (Krista Ramsey), featured in column entitled *Teachers must also face their peers*, October 21, 2000.

Reviewer, *Science instruction in the middle and secondary schools*, Merrill Prentice Hall, Columbus, OH, July 2000.

Consultant, *Alternative assessment in the middle school*, Porter Middle School, September 1998.

Consultant, *Learning cycles in the middle school classroom*, Porter Middle School, October 1998.

Consultant, *Learning cycles in the elementary classroom*. Franklin County Schools, August, 1997.

Consultant, *Evaluation of the systemic reform effort in science education*. Cincinnati Public Schools, Spring 1997.

Consultant, *Frontiers in Physiology National Advisory Board*, Bethesda, Maryland, The American Physiological Society, November, 1996.

Consultant, *Professional development for teachers: Effort Environmental Education Center*, McKinley Kindergarten Center, September - December 1995.

Consultant, *Exploring hands-on science in the elementary classroom*. Fairfield City Schools: Fairfield Central Elementary, Fairfield, OH, September 25, 27, 28, 1995.

Consultant, *Cooperative Learning in the Classroom*:. Lebanon City Schools, Lebanon, OH, August 3 - 5, 1995.

Consultant, *Alternative Assessment: Using portfolios in the science classroom*. Montgomery, OH: Southwest Regional Professional Development Center, June, 1995.

Consultant, Professional Development for K-12 teachers, *Implementing and assessing portfolios in any science classroom*, Preble County School District, Eaton, OH, November 11, 1994.

Consultant, Professional Development for K-12 teachers (5 county area; 160 teachers). *Getting started with interdisciplinary action plans*. Henry County Schools, Napoleon, OH, August 9, 1994.

Consultant, Professional Development for K-12 teachers, *Assessment in science portfolios*. Preble County School District, Eaton, OH, August 4, 1994.

Consultant, Professional Development for K-12 teachers, *Cooperative Learning: Follow Up Session*. Lebanon City Schools, Lebanon, OH, January 6, 1994.

Consultant, *Encouraging Creativity and Problem Solving Skills in All Students*. Inservice given to Sycamore Community Schools, Montgomery, OH, August 20, 1993.

Consultant, *Cooperative Learning Seminar*. Inservice given to Lebanon City Schools, Lebanon, OH. August 2 -4, 1993.

Consultant, with J. B. Kahle, *Equity in the Classroom: Teachers as Researchers*. American Association of University Women: AAUW Education Foundation, Teacher Institute, Washington, DC., July 25, 1993.

Consultant, *Kindergarten Experiences: A Natural for Hands On, Mind on Science*. Inservice given to Hamilton City Schools, Hamilton, OH, May 19, 1993.

Consultant, *Cooperative Learning: Conflict Resolution in the High School*. Inservice given to Fairfield City Schools, Fairfield, OH, February 8, 1993.

Consultant, *Cooperative Learning: in the Classroom: Follow-up Session*. Inservice given to Lebanon City Schools, Lebanon, OH, January 25, 1993.

Consultant, *Cooperative Learning: Getting Started!* Inservice given to Lebanon City Schools, Lebanon, OH, January 7, 1993.

Consultant, *Encouraging creativity and problem solving in all students*. Inservice given to Sycamore Community Schools, Montgomery, OH, August 20, 25, 1992.

Consultant, *An Introductory Seminar to Cooperative Learning*. Inservice given to Lebanon City Schools, Lebanon, OH, July 27-29, 1992.

Consultant, *Aquatic Project WILD*. Workshop presented for teachers, sponsored by the Hamilton County Office of Education, Mount Healthy, OH, June 9, 1992.

Consultant, *1991 Elementary Science Program*, Silver Burdett and Ginn, 1991-92.

Consultant, *The BCSC Project--Biological Science: A Human Approach*, Colorado Springs, Colorado, November, 1991.

Consultant, *Curiosity: the Ultimate Frontier!* Workshop for elementary teachers, Hamilton City Schools, Hamilton, OH, August 9, 1991.

Consultant and Writer, *Advanced Girl Scout Training Manual*, American Association for the Advancement of Science, Summer, 1991.

Consultant, *Science Alliance: Teaching Life Science*. Five week workshop for Hamilton County middle school teachers sponsored by the Cincinnati Natural History Museum and Marion Merrell Dow, Feb.-March, 1991; Feb.-March, 1992.

Consultant, *Machines: A Hands on Approach*. Workshop for elementary teachers, Forest Hills School District, Cincinnati, OH, October 9, 1992.

Consultant, *Making Life Science Come Alive!* Workshop for Hamilton County teachers sponsored by the Hamilton County Office of Education, Mount Healthy, OH, July 17, 1990.

Consultant, *Investigating Creativity and Equity Issues in Science*. Workshop for Enhancement of Elementary School Science, Scioto County Vocational Schools, Portsmouth, OH, June 22, 1990.

Consultant, *A hands-on approach to equity in science and math*. Workshop for the Teaching Integrated Science and Mathematics Class, Slippery Rock University, Slippery Rock, PA, March 10, 1990.

Consultant, *Linkages Science and Mathematics Workshop for Girl Scout Troop Leaders*, American Association for the Advancement of Science and the National Association of Biology Teachers, St. Paul, MN, November 19, 1988.

Consultant, *Experiencing Science in the Elementary Schools*, Miami University and the Hamilton County Board of Education, Summers 1986-1990.

### **Evaluator and Curriculum Developer**

External Evaluator, ***Operation Smart***, Rapid City Girls, Inc. Rapid City, SD, June 1994 –1999.

External Evaluator, ***TOYS CAPS Program***, Miami University - Middletown, June 1994 -1999.

External Evaluator, ***Hughes Biomedical Education Grant Initiative***, College of Arts and Sciences, Miami University, Summer 1996-98.

External Evaluator, ***Teaching Science with TOYS Program***, Miami University - Middletown, June 1992- 1996.

External Evaluator, ***Partners for Terrific Science Program***, Miami University - Middletown, June 1993 - 1995.

External Evaluator, ***Proyecto Futuro: Science and Mathematics Activities in English and Spanish***, American Association for Advancement of Science, June, 1992.

External Evaluator, ***PLUS (Promoting Literacy Among the Underrepresented in Science) Center***, College of St. Scholastica, Duluth, MN, 1992-93.

Curriculum Developer, ***World in Motion, Part II***, Mazer Corporation, Summer 1995.

## **Memberships in Professional Organizations (1993 - present)**

American Educational Research Association  
Association for the Education of Teachers in Science  
Association for Presidential Awardees in Science Teaching  
National Association of Biology Teachers  
National Association for Research in Science Teaching  
National Science Teachers Association  
Phi Delta Kappa (educational honorary)  
Phi Beta Kappa (scholastic honorary)  
School Science and Mathematics Association