

VITA

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PRESENT POSITION: Emma Walton and Associates - Consultant

PREVIOUS POSITIONS:

1993-1997 National Science Foundation Program Director
Elementary, Secondary and Informal Education
1974-1993 Science Program Coordinator, Anchorage School District
Anchorage, Alaska
1975-1984 Part time faculty for teacher training, University of Alaska Anchorage
Taught Elementary Science Methods.
1979 -1984 Part time faculty for Alaska Pacific University
Taught Elementary Science Methods
1982 - 85 Academic Advisor & coordinator for the Doctoral Program -
University of Southern California, Anchorage Campus
1988-93 National Science Resources Center, Washington, D.C.
Leadership Team
1978 - 81 Director - Educational Innovation and Support Project, Anchorage
School District
1975 Visiting Instructor -Elementary Science Study, Portland State
University
1970-74 Science Teacher, Dimond High biology and 8th grade science
1966-70 Biology Teacher and Department Chairperson, Gwynn Park
High School, Prince Georges County, MD
1964-66 Biology Teacher, East Jefferson High School, Metairie, Louisiana

EDUCATIONAL BACKGROUND:

1982 Ed.D. University of Southern California
Educational Administration Policy major
Educational Curriculum minor

Advanced graduate study:

<i>University of Colorado</i>	<i>University of Iowa</i>
<i>University of Alaska</i>	<i>Howard University</i>
<i>Alaska Pacific University</i>	<i>Texas Christian University</i>
<i>University of Southern California</i>	<i>Ohio State University</i>
<i>Frostburg State College</i>	<i>University of Maryland</i>
<i>Washington State University</i>	

1970 M. Ed. Bowie State College, Bowie, Md.
Science Education

1964 B.S. Oklahoma University
Education

CONSULTING

- 2004—Three year grant-NSF project Evaluator—MapTeach Alaska
2001-Present Facilitator for Writing the National Science Teachers Association (NSTA)
History 2nd Installment
2000-Present Evaluator for Rural Access to Technical Education—NSF Project
1994-Present Team Director—Special program with the schools on St. Eustatius,
Dutch Antilles
1999-2003 Consultant for Arctic Connections—NSF Project

BOARDS

- 2000-Present Leadership and Assistance for Science Education Reform (LASER)
Advisory Board—Smithsonian/The National Academies, National Science
Resources Center
2002-Present U.S. Delegate Youth Policy in the Arctic—Arctic Council
1999-Present Advisory Board Transportation, Distribution and Logistics Building
Linkages Project—US Department of Education Project
1999-Present Advisory Board Teachers Experiencing (TEA) Polar Research
Initiative NSF
1999-2001 Advisory Board WestEd's National Academy for Science and Mathematics
Leadership project
2001- Present Board of Directors Challenger Learning Center of Alaska-President 2003
2001-Present Alaska Science Teachers Association (ASTA) Board of Directors
1998-2003 ASTA Newsletter co-editor
1984 Chair for the NSTA Search for Excellence in Science Education Program
1984-85 Member of the Alaska Curriculum Cabinet, Alaska Department of
Education
1987-1990 Member of Bureau of Land Management's Southern Alaska Advisory
Council
1975-1993 Board of Directors, Alaska Science Fair 1975 – 1993
1985 Ex Officio Board Member of Alaska Mineral and Energy Resource
Educational Fund (A.M.E.R.E.F.)
1984-93 Advisory Council of the Alaska Energy Source Educational Council

AWARDS AND RECOGNITIONS:

- Special Recognition , Governor de Graaff School, St. Eustatius, Netherlands Antilles 2001
- Special Recognition, Society of Elementary Presidential Award (SEPA) 1994
- Distinguished Service to Science Education, NSTA, 1993.
- Special Recognition for Education Leadership, The Alaska Legislature 1993
- Finalist for the Anchorage Chamber of Commerce Gold Pan Award 1993
- Outstanding Science Supervision Award, Search for Excellence in Science Education, National Science Teachers Association, 1986
- Outstanding Elementary Science Education Award, Search for Excellence in Science Education, National Science Teachers Association,
- Gold Pan Award, Alaska Science Teachers Association 1981

PROFESSIONAL ORGANIZATIONS:

- National Science Teachers Association
- National Science Education Leadership Association
- Council for Elementary Science International
- Alaska Science Teachers Association
- Association for Supervision and Curriculum Development
- Alaska Association for Supervision and Curriculum Development
- Phi Delta Kappa
- Cook Inlet Phi Delta Kappa
- National Staff Development Council

OFFICES HELD:

- President, National Science Teachers Association, 1999-2000
- President, National Science Supervisors Association, 1988-89.
- Division Director for Supervision, National Science Teachers Association (NSTA), 1989-91.
- President - Alaska Association for Supervision and Curriculum Development, 1984-85.
- President Alaska Science Teachers Association 1980-81.
- Program Chair, National Science teachers' Association 1986 Area Convention, Anchorage, Alaska
- Secretary for the Anchorage Aerospace Education Committee 1981-83
- Vice President Cook Inlet Administrators Association, 1984-86
- Historian Cook Inlet Chapter Phi Delta Kappa 1981-83
- Secretary Cook Inlet Chapter Phi Delta Kappa 1984-85
- Vice President Inlet Chapter Phi Delta Kappa 1985-86

RELATED EDUCATIONAL BACKGROUND AND EXPERIENCE

Directed *Innovations in Education for Elementary Science* funded grant-USDOE-\$100,000

Directed *Concepts for All Project in Science (CAPS)* funded grant-USDOE-\$2,000,000 1990-1993

Co-directed *BluePrint for Literacy and Technology* funded grant-USDOE- 1991-\$223,178

Audit Committee-Cook Inlet Chapter, Phi Delta Kappa

Chair for the Alaska Presidential Awards for Excellence in Science and Mathematics Teaching (PAEMST) program 1983

Researched, developed and directed operations of the Anchorage School District Elementary Science Resource Center 1977-93

Co-Chaired the Alaska Science Standards Committee 1992-93

RELATED EDUCATIONAL BACKGROUND AND EXPERIENCE Continued

Consultant to "The Network, Inc." Andover, Massachusetts, March 1989

Coordinated the development and promotion of the science education Scope and Sequence 1978-81

Extensive work as facilitator of science curriculum committees 1974-1993

Developed and coordinated over 100 graduate level mini-courses; instructor of record for 15 mini-courses

Developed and coordinated professional development for teachers for 19 years

Organized and continued personal support of the Alaska Science Teachers Association (ASTA)

Organized and coordinated The CommitTEE (a committee made up of agency personnel to act as an advisory group for Environmental Education

Served on the Elementary Curriculum Framework Committee for the Alaska Department of Education

Coordinated "Science Update" at the University of Iowa, July 29-August 3, 1985 and July 6-12, 1986

Served as an invited panelist at the National Science Resource Center's National Conference on the Teaching of Science in Elementary Schools, July 13-16, 1986

Coordinated ASCD's Science Institute in Seattle, Washington, 1986

Reviewed draft *Science for All Children A Guide to improving Elementary Science Education in your School District*, National Science Resources Center

Planned and facilitated first Mini-Institute for Presidential Awardees, NSTA New Orleans 1997

Reviewed NSF Grant Proposals numerous times

ARTICLES and PUBLICATIONS:

Walton E (1983) *The Search for Excellence in Science Education Chapter 3 A* Monograph on Excellence published by NSTA

Walton E, Butler J 1984 Video, *Video for Teacher Training in Science* Anchorage School District

Walton E (1988) Third Sourcebook for Science Supervisors, Chapter 5, *How to Support Your Science Program: An Introduction* Published by NSTA

ARTICLES and PUBLICATIONS Continued

Horsley S, Kapitan R, Carlson M, Kuerbis P, Clark R, Melle G, Sachse T, Walton E, (1990) *Elementary School Science for the '90s*, The National Center for Improving Science Education, The Network & ASCD

Nesbit, C.R., Wallace, J.D/., Pugalee, D.K., Miller, A., -C., DiBiase, W.J. (Eds.) (2001) *Developing Teacher Leaders*, Chapter 6, *Building a Community for Science* Eric Clearinghouse

KEYNOTE ADDRESSES

- Keynote speaker “What Science Supervisors (Leaders) Need Today” NSELA Ohio 1995
- Keynote Speaker and Presenter “Science Leadership” Alabama Science Teachers Association, 1996
- Key note Speaker “Building a Community for Science”, Alabama Science Teachers Association Luncheon, NSTA Birmingham 1998
- Luncheon Speaker “Building A Community for Science” Science Teachers Organization of Missouri, NSTA Columbia, MO 1999
- Keynote Luncheon Speaker, Building A Community for Science” Arizona Science Teachers Association, Phoenix 1999
- Keynote Address “Building A Presence for Science” New York State Science Education Leadership Association, Ellensville, NY 1999
- Keynote Breakfast Address, Massachusetts Association of Science Teachers Worcester, MA 1999
- Keynote speaker “Building A Community for Science” Hawaii Science Teachers Association, Honolulu, HI 2000
- Keynote Speaker, “Cooperative Efforts” Aerospace Education Conference, San Diego, CA 2000
- Keynote Luncheon Speaker, Kentucky Science Teachers Association, Lexington, KY 2000
- Keynote speaker, West VA Science Teachers Association, Morgantown, WVA 2000
- Keynote speaker, Wisconsin Elementary Science Teachers, 2001
- Keynote speaker, Galaxy Classroom, TeacherUniverse Conference, “National Science Education Standards: Vision or a Prison”, Scottsdale, AS August 2000
- Keynote speaker, 2000 National Congress on Aviation and Space Education, “Teaching the National Science Education through Aviation”, San Diego, CA March 15, 2000

LECTURES AND PRESENTATIONS

- Presented “Science Education in Alaska” NSTA Washington DC 1978
- Presented “Status of Science Education” AAAS Science Conference, Alaska 1980
- Presented “What are the Roles of Females in Science” Women and Science and Technology Anchorage, AK 1982
- Walton E, Wulf K, Brown A, Johnson V (1981) *Essential Ingredients in the Development and Implementation of Energy Curriculum for Elementary Schools* given at the 3rd International Energy Conference on Use Management-Berlin, Germany 1982
- Presented “Learning Science Through Play” International School Psychology Colloquium Stockholm, Sweden 1982
- Presented “How to be Partners in Science Education-Team Building with Universities and School Districts” NSTA Dallas 1983
- Presented “A Support System for Elementary Science” NSTA Dallas 1983
- Presented “Key Issues in Elementary Science Education” Cook Inlet Chapter Phi Delta Kappa Alaska 1983
- Presented “Effective Schooling Practices in Curriculum Development” ASCD New York 1984
- Presented “Responding to Nation At Risk Through Effective Schooling Practices” NSTA 1984
- Presented “Enhancing Staff Development Through Cooperative Efforts of Universities, Agencies, and the Community” ASCD Chicago 1985
- Presented “Redirecting Science Education in Alaska: A challenge to Education” Arctic Science Conference, Alaska 1984
- Presented “Evaluation of a Science Program” NSTA Cincinnati, Ohio 1985
- Inservice presenter—Elementary Hands-On Science-Loveland, CO August 1986
- Presented “Hands-On Science: Development of a Management System for a School District” NSTA St. Louis 1988
- Presented “Your Profile as a Science Supervisor” NSTA October 1988
- Presented “The Hands-On Science Challenge NSTA Little Rock November 1988
- Presented “Building A Support System for Elementary Schools” NSTA Washington DC 1987
- Presented “Hands-On Science: Making It Work” ASCD Boston April 1987
- Presented “Networking for the Future” NSTA Salt Lake City, September 1987
- Presented “A Successful Elementary Science Program” NSTA San Francisco, 1986
- Presented “Curriculum Cabinet-Bridging the Distances in Alaska” ASCD San Francisco 1986
- Presented “Making Science User Friendly for Teachers” NSTA 1989
- Presented “Implementing Co-operative Learning” ASCD Orlando 1989
- Presented with Linda Crow, Tom Sachse, Manuel Gomez, “Teacher Enhancement: A Major Component of Scope, Sequence, and Coordination” NSTA Kansas City 1993

LECTURES AND PRESENTATIONS Continued

- Presented with Judy Reid, “The Hands Helping Hands-On Science”, NSTA Kansas City 1993
- Co-presented with Jack Rhoton, Gerry Madrazo and LaMoine Mots, Reshaping School Science: Perspectives from Science Supervisors, NSTA Kansas City 1993
- Presented “Presidential Awards for Excellence in Mathematics and Science Teaching” NSTA Louisville November 1993
- Presented “Essential Elements of Grant Writing—A Hands-on Experience” NSTA Las Vegas 1994
- Co-presented with Mary Sivertsen “Write it Right—How to Prepare a Quality Grant Proposal” NSTA Anaheim 1994
- Presented “The Hands Helping Hands-on Science” Anaheim 1994
- Presented “You Too Could Be a Presidential Awardee” NSTA Anaheim 1994
- Co-presented with Jack Rhoton, LaMoine Motz and Gerry Madrazo “Restructuring Science from the Perspectives of Science Supervision”, NSTA Anaheim 1994
- Presented “Presidential Awardees: A Standard for Excellence” NCTM Boston 1994
- Co-presented with Julia Clark, Colleen Hill, Karen Lind, Patricia Morse and Joe Stewart “Essential Elements of Grant Writing: A Hands-on Experience” NSTA Las Vegas 1994
- Presented “You Too Could Be a Presidential Awardee” NSTA Las Vegas 1994
- Co-presented with Sharon Nelson, Maria Savaino and Wendy Weiner “You, Too, could be a Presidential Awardee” NSTA Minneapolis 1994
- Presented “Presidential Awardees: A Standard for Excellence” NCTM Indianapolis 1995
- Presented “A Paradigm Shift for Delivering Science Education—A View From Science Leaders” NSTA Philadelphia 1995
- Presented “You Too Could Be a Presidential Awardee” NSTA Philadelphia 1995
- Presented “Information About the National Science Foundation Programs” NSTA Philadelphia 1995
- Presented “Presidential Awardees: A Standard for Excellence” NCTM San Diego 1996
- Presented “Science Education for the 21st Century” NSTA St. Louis 1996
- Presented “You Too Could Be a Presidential Awardee” NSTA St. Louis 1996
- Presented “Essential Elements of Grant Writing” Short Course NSTA St. Louis 1996
- Presented “Presidential Awardees: A Standard of Excellence” NSTA International Convention, San Francisco 1996
- Presented “Grant Writing Workshop” NSTA International Convention, San Francisco 1996
- Co-lead with Curtis Howard, Jim Ellis, Julia Clark & Janice Earle, short course “Essential Elements of Grant Writing: A Hands-On Experience, NSTA St. Louis 1996

LECTURES AND PRESENTATIONS Continued

- Co-presented with Janice Earle, Karen Heizer, Patricia Goodnight, Trisha Herminghaus & JoAnn DeMaria, “You, Too, Could Be a Presidential Awardee, NSTA Kansas City 1996
- Co-presented with Janice Earle & James D. Ellis, “Science Education in the 21st Century” NSTA St. Louis 1996
- Co-presented with Harold Pratt, Science Education Leadership-What We Have Learned. NSTA Western Area Convention, Denver, CO Nov. 1997.
- Presented Reflections on 33 Years in Science Education. NSTA Nashville Area Convention, Nashville, TN Dec. 1997
- Presented Presidential Awardees: A Standard of Excellence, NSTA New Orleans, LA, April 1997
- Presented Delivering Changes in Science Education Reform: Proactive and Reactive Initiatives by Science Leaders, NSTA New Orleans, LA, April 1997.
- Presented Grant Writing Workshop, Arctic Research Consortium of the United States (ARCUS), New Orleans, LA, April 1997.
- Presented “Grant Writing Workshop” Mathematics & Science Education Network Board Meeting, University of North Carolina Chapel Hill, January, 1997.
- Co-presented with LaMoine Motz, Gerry Madrazo, and Jack Rhoton “Working Models and Ideas for Changing Science Teaching and Learning: Perspectives from Four Science Education Leaders” NSTA Las Vegas 1998
- Presented “Building A community for Science” New Jersey Science Teachers Association 1999
- Gave address/introduced speakers Alaska Science Teachers Association/Alaska Math Conference, Anchorage, AK 1999
- Presented “Leadership Development” Nebraska Association of Teachers of Science 1999
- Presented “Building A Presence for Science” Arkansas Science Teachers Association, Little Rock, Arkansas 1999
- Presented “New NSTA Governance” North Carolina Science Teachers Association, Greensboro, North Carolina 1999
- Co-presented with Jack Rhoton, LaMoine Motz and Gerry Madrazo “Working Models and Ideas for Changing Science Teaching and Learning: Views from Four Science Education Leaders” NSTA Detroit 1999
- Presented “Building A Presence for Science” South Dakota Science Teachers Association, Huron. S. D. 2000
- Presented “Building a Presence for Science” and “Leadership development” Indiana Science Teachers Association, Indianapolis 2000
- Presented “Building a Presence for Science” and “Leadership development” Elementary and Middle Level Sc Teach Conference, Stevens Point, WI 2000
- Co-presented with LaMoine Motz, Gerry Madrazo and Jack Rhoton “Professional Development—Defining, Developing, and Designing Innovative Science Teaching and Learning” NSTA St. Louis 2001
- Co-presented with LaMoine Motz, Gerry Madrazo and Jack Rhoton “Professional Development—Defining, developing Innovative Science Teaching and Learning” NSTA San Diego 2002

VOLUNTARY ORGANIZATIONS BACKGROUND AND EXPERIENCE:

- Chair, Scholarships for the Southcentral Alaska Chapter March of Dimes 1983-86
- Chair, Public Education for the Southcentral Chapter March of Dimes 1978-83
- Executive Committee, Imaginarium, Anchorage, AK 1990-93
- Board of Governors, Alaska Challenger Center 1998
- Alaska Natural History Board of Directors 2001-2002
- Newsletter Editor Alaska Ninety-Nines 1976-78
- Historian Alaska Ninety-Nines 1975-76
- Chair, Board of Trustees, Turnagain United Methodist Church 1978-81