

CURRICULUM VITAE

NAME: Baird, Kate A.

EDUCATION:

UNDERGRADUATE: B.S. Microbiology, 1982
Purdue University, West Lafayette, Indiana

GRADUATE: M.S. Environmental Science and Education, 1987
Indiana University, Bloomington, Indiana

Ph.D. Curriculum and Instruction – Science Education, 1994
Indiana University, Bloomington, Indiana

ACADEMIC APPOINTMENTS:

2006- Assistant Clinical Professor of Education
Indiana University Purdue University Columbus
4601 Central Avenue
Columbus, IN 47203

2004 - 2006 Assistant Professor of Education
Indiana University Purdue University Columbus
4601 Central Avenue
Columbus, IN 47203

OTHER APPOINTMENTS AND PROFESSIONAL CONSULTANTSHIPS:

2008-2010 Board of Advisors for the Natural Resources Education Council
Fort Harrison State Park
5785 Glenn Road
Indianapolis, IN 46216-1066

2008-2011 Board of Advisors & Educational Consultant Space Port
Indiana
11595 N. Meridian Street Suite 840
Carmel, IN 46032
Tel: 765 606 1512
Fax:765 640 1847
www.TMGLabs.com

2007 – 2009 President of Facility IUPUC
Indiana University Purdue University Columbus
4601 Central Avenue
Columbus, IN 47203

2007-2010 ASTE Long Range Planning Committee
ASTE Executive Secretary
113 Radcliff Dr.

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2005
 Pittsburgh, PA 15237
 State Coordinator
 Building a Presence for Science in Indiana
 NSTA
 1840 Wilson Boulevard, Arlington, VA 22201

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LICENSURE AND CERTIFICATION:

1986 Indiana Teachers Life License
 2008 Project Learning Tree Facilitator

PROFESSIONAL ORGANIZATIONS:

Hoosier Association of Science Teachers Incorporated (HASTI), 1987 – 1995 2003-present
 National Science Teachers Association (NSTA), since 1989. District X Director 2009- 2012, pre-service committee 09-12; special education advocate committee 09-12. Hospitality committee NSTA regional meeting in Indianapolis. Founder of NSTA student Chapter at IUPUC (-2004)
 Phi Delta Kappa. ~~Since~~ 1999-2008
 Phi Theta Lambda, 1994-2007
 Association for Educators of Teachers of Science (ASTE), since 1996

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TEACHING ASSIGNMENTS:

<i>Term</i>	<i>Course No</i>	<i>Short Title</i>	<i>-Enrollment</i>
<u>Spring 2009</u>	<u>EDUC E328</u>	<u>Science in the Elementary School</u>	
	<u>EDUC W505</u>	<u>Hands on Math & Science GR 4-10</u>	
	<u>EDUC Q200</u>	<u>Introductory Inquiry Skills (High School)</u>	
<u>Fall 2008</u>	<u>EDUC Q200</u>	<u>Introductory Inquiry Skills</u>	
	<u>EDUC E328</u>	<u>Science in the Elementary School</u>	
	<u>EDUC W505</u>	<u>Hands on Math & Science GR 4-10</u>	
<u>Summer 2008</u>	<u>EDUC Q200</u>	<u>Introductory Inquiry Skills</u>	
	<u>EDUC W505</u>	<u>Hands on Math & Science GR 4-10</u>	
Spring 2008	EDUC E328	Science in the Elementary School	30
	EDUC M305	Field Experience: Block IIIA	30
	EDUC W505	Hands on Math & Science GR 4-10	8
	EDUC Q200	Introductory Inquiry Skills (High School)	17
Fall 2007	EDUC Q200	Introductory Inquiry Skills	23
	EDUC M305	Field Experience: Block IIIA	14
	EDUC E328	Science in the Elementary School	14
Summer 2007	EDUC Q200	Introductory Inquiry Skills	16
	EDUC W505	Hands on Math & Science GR 4-10	1
Spring 2007	EDUC E328	Science in the Elementary School	21
	EDUC W505	Hands on Math & Science GR 4-10	5

Fall 2006	UCOL U110	Freshman Learning Community	11
	EDUC M305	Field Experience: Block IIIA	19
	EDUC E328	Science in the Elementary School	19
Summer 2006	EDUC W505	Hands on Math & Science GR 4-10	6
Spring 2006	EDUC E328	Science in the Elementary School	28
	EDUC W201	Beginning Technology Skills	20
	EDUCW505	Hands on Science and Math	5
Fall 2005	EDUC M451	Student Teaching: Jr High/Mdl Sc	2
	EDUC Q200	Introductory Inquiry Skills	19
	EDUC W201	Beginning Technology Skills	13
Summer 2005	EDUC Q200	Introductory Inquiry Skills	12
Spring 2005	EDUC M202	Job Search Strategies For Education	15
	EDUC M307	Field Experience: Block IIIb	15
	EDUC M425	Student Teaching Seminar	24
	EDUC W201	Beginning Technology Skills	20
Fall 2004	EDUC M202	Job Search Strategies For Education	24
	EDUC Q200	Introductory Inquiry Skills	16
	EDUC W201	Beginning Technology Skills	14

PROFESSIONAL SERVICE:

NSTA "Science Teacher" manuscript review panel
[NSTA District X Director 2009- 2012, pre-service committee 09-12; special education advocate committee 09-12.](#)
 State Coordinator – Building a Presence for science (BaP)
 Affiliate board member – Hoosier Association of Science Teachers Inc. (HASTI) Board
 Chair of BaP steering committee set meetings, agendas, and run meetings.
 ASTE- Long Range Planning committee
 Board of Advisors for the Natural Resources Education Council
 Board of Advisors & Educational Consultant Space Port Indiana
 Founding member of International Virtual STEM Classroom

UNIVERSITY SERVICE:

Block II and III Assessment, Technology Advisor, IACTE representative
 President of IUPUC Faculty
 Faculty Senate, By-Laws, [Faculty affairs](#), and nominations sub Committees, ITAC
[Search committee member for IUPUC Vice Chancellor and Dean](#), Biology Lecturer,
 Mathematics Education, [Science Education, Coordinator of Student Teaching, Education
 Academic Advisor, and Business Professor search committees](#)
 2005 Outstanding Full-Time Faculty Award Committee.
 PRAC Grant review committee ~~since 2005~~ [2008](#)
 IUPUC NSTA student chapter sponsor
 IUPUC Capital campaign committee 2005

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COMMUNITY SERVICE:

FIRST Lego League qualifying tournament director – (2006- present)
BSCS Science Mentors network – (2006- 2009)
Kiwanis International – (2004-present) President 2006-2007, President Elect 2005-2006 Vice President 2004-2005 Service projects such as pancake feast, chicken bar-b-que, [ethnic expo parade co-coordinator](#) and Adopt a Duck for Kids

OTHER PROFESSIONAL ACTIVITIES:

Refereed Presentations

[Bailey, B. & Baird, K. A. \(2009\) NSTA Student Chapter Session: Becoming a Leader in the Profession NSTA National Conference. New Orleans, LA](#)
[Baird, K. A., Pocock, A. S. and Fuehne, J. P. \(2009\) Using FIRST Lego League to Promote Global Awareness Through Robotics NSTA National Conference. New Orleans, LA](#)
[Koenecke, W. \(2009\) NSTA Student Chapter Faculty Advisor Roundtable- NSTA National Conference. New Orleans, LA](#)
[Musselman, M.; et al. \(2009\) NSTA Student Chapter Share-a-Thon NSTA National Conference. New Orleans, LA](#)
Awadly, M. et al. (2008) NSTA Student Chapter Share-a-Thon [NSTA National Conference](#). Boston, MA
Baird, K. ., et al. (2008) International Virtual STEM Classroom: Engaging Students Around the World in Science [NSTA National Conference](#). Boston, MA
Fuehne, J. P., & Baird, K. A. (2008) Sharpening the Edge in Science. [NSTA National Conference](#). Boston, MA
Koenecke, W. (2008) NSTA Student Chapter Faculty Advisor Roundtable- [NSTA National Conference](#). Boston, MA
Baird, K.A., & Pocock, A.. (2007) The Moon project as a tool to support ENL in the elementary school. Presented at [NSTA National Conference](#). St. Louis, MO
Baird, K.A., & Fuehne, J.. (2007) Using Lego Mindstorms and the First Lego League to support elementary school science instruction. Presented at [NSTA National Conference](#). St. Louis, MO
Baird, K.A., Pocock, A., Winikates, D., & Wakhungu, H.. (2007) Pre-service elementary educators engage in inquiry-based science, literacy and numeracy through thematic integrated teacher preparation program focused on the Moon. Presented at [ASTE International Conference](#). Clearwater, FL
Baird, K.A., Winikates, D., & Wakhungu, H.. (2006) Pre-service elementary educators make meaning of Math and Science. Presented at [NSTA National Conference](#). Anaheim, CA
Baird, K.A., & Pocock, A.. (2006) Using Science as a bridge to English language Presented at [NSTA National Conference](#). Anaheim, CA
Baird, K.A. & Winikates, D. (2006) Moon Project as integrating thematic thread in pre-service elementary education. Presented at [NSTA National Conference](#). Anaheim, CA
Smith, W.S., Wilhelm, J. A., & Baird, K.A. (2006) MOON Project: linking students from around the world through lunar observation. Presented at [NSTA National Conference](#). Anaheim, CA
Baird, K. A. (2006) Building a presence in Indiana. Presented at [HASTI State Conference](#) Indianapolis, IN.
Baird, K.A. & Lentz, V.M.. (2004) A hands-on/ minds-on photosynthesis Lab that really works! Presented at [NSTA Area Convention](#). Indianapolis, IN

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Baird, K.A. & Lentz, V.M.. (2004) curriculum Design of an Introductory Science Course to Promote Active Learning. Presented at NSTA National Convention. Atlanta GA.

Invited Presentations

CSEI Fall Meeting, 2005 Bringing Building a Presence to Indiana One hour presentation on BaP and the initial steps to bringing the network to Indiana.

CTL Inspiration workshops, 2004 – offered workshops for Professional Development Academy

GRANTS AND FELLOWSHIPS:

Funded

Indiana DOE Solicited to Submit Teacher Inquiry, 2007

To support Southern Indiana elementary teachers at increasing inquiry-based instruction in their classroom. (\$29,791 for 1 year)

Scott County Community Foundation, 2006.

To introduce high school students to science, technology, engineering, and math using LEGO Robotics as a learning tool; Also, to encourage students to consider postsecondary education as a career path; To provide role models and mentoring for these students; (\$ 4986.40 for equipment) with Drs. Fuehne and Ratcliff of Purdue College of Technology

Indiana DOE Math Science Partnership, 2006

To establish a science mentors network and professional development on inquiry and integrated instruction for teachers in BCSC schools. (\$ 220,960 for 3 years) with Karen Garrity

Integrative Department Grant, 2006

Develop and pilot and electronic portfolio for division of education students on the IUPUC campus.(\$10, 000 for 2 years) with Drs. Winikates and Wakhungu and Mrs. Serra

Heritage Foundation- Grant for Lego materials for Inquiry in the classroom.

Columbus Evening Kiwanis grant for Summer Lego camp (2006 and 2007)

Submitted

N/A

Not funded

NASA Endeavor Science Teacher Certificate Program \$2,423,619.00

Letter of intent NSF, with Dr. Wilson Head. Full proposal not submitted due to time constraints.

Irwin Union Foundation

Indiana State STEM grant

Proffit

PRINT AND ELECTRONIC PUBLICATIONS:

(I) Teaching Publications

Refereed

1. Fuehne, J. P., & Baird, K. A. (2009). A Multi-Disciplinary Summer Camp: LEGO Mindstorms for Students and Teachers. Technology Interface Journal, 9(2). <http://technologyinterface.nmsu.edu/>.

2. Baird, K. A. & Lentz, V. M. (submitted) Photosynthesis: A Hands-on Lab that Really Works. The Hoosier Science Teacher.

~~1-3~~ Baird, K. A. et al. (2007) An Interdisciplinary, Inquiry-based Pre-service Teacher Preparation Program: Using the Moon as an Integrating Theme. The Hoosier Science Teacher. Summer.

~~2-~~ Fuehne, J. & Baird, K. (Under review) A Multi-Disciplinary Summer Camp: LEGO

~~3-4~~ Baird, K.A., Pocock, A., Winikates, D., & Wakhungu, H.. (2007) Pre-service elementary educators engage in inquiry-based science, literacy and numeracy through thematic integrated teacher preparation program focused on the Moon. Presented at ASTE International Conference. paper in proceedings

~~4-~~ Mindstorms for Students and Teachers. Contemporary Issues in Technology and Teacher Education—Current Practices. SUBMITTED

~~Fuehne, J. P. and Baird, K. A. A Multi-Disciplinary Summer Camp:LEGO Mindstorms for Students and Teachers. *Technology Interface*~~

5.

(II) Research or Creative Activity Publications

Non-refereed

1. Baird, K.A., Buckbee, D. & Hara, E. (2005) Nontraditional Inquiry-Based Science. The Journal for the Liberal Arts and Sciences, (9:4).

(III) Professional Service Publications

Refereed

1. Baird, K.A., & Spradling, S. (2005) Indiana Begins to Build A Presence For Science Education. The Hoosier Science Teacher.

Invited

2. Baird, K.A.(2005) Help Us Build A Presence For Science In Indiana Sci-Ed-Ogram, April/May.