

*Curriculum Vita*  
**DAVID 'TODD' CAMPBELL**

**Business Address:**

University of Massachusetts Dartmouth  
STEM Education Department  
200 Mill Rd  
Fairhaven, MA 02719  
Email: todd.campbell@umassd.edu

**Home Address:**

19 Prospect St.  
S. Dartmouth, MA 02748  
(774) 206-1439-Home

**EDUCATION**

- Ph.D. July 2004  
Curriculum and Instruction/Science Education (Environmental Studies), The University of Iowa.  
Dissertation: *Analysis of changes in teachers' views on teaching and learning after participation in the Iowa Chautauqua for Reform and the effects these changes have on students.* Dr. Robert E. Yager, Dissertation Advisor.
- M.A.T December 1998  
Master of Arts in Teaching, The University of Iowa.  
State of Iowa Standard Teaching License, 7-12 Chemistry & Physical Science (1996-2009).
- B.A. May 1996  
Chemistry, The University of Iowa.

**EMPLOYMENT HISTORY**

**Associate Professor, Science Education (2012-present).**

**STEM Education Department, University of Massachusetts Dartmouth, Dartmouth, Massachusetts.**

Responsibilities include teaching science education courses in the STEM Education Department, program development in graduate and undergraduate science education, and pursuing a professional agenda of research and service in the field of science education supported by external funding.

**Associate Professor, Science Education (2011-2012).**

**College of Education and Human Services, Utah State University, Logan, Utah.**

Responsibilities include teaching science education courses in the School of Teacher Education and Leadership, program development in graduate and undergraduate science education, and pursuing a professional agenda of research and service in the field of science education supported by external funding.

**Assistant Professor, Science Education (2005-2011).**

**College of Education and Human Services, Utah State University, Logan, Utah.**

Responsibilities include teaching science education courses in the School of Teacher Education and Leadership, program development in graduate and undergraduate science education, and pursuing a professional agenda of research and service in the field of science education supported by external funding.

**Assistant Professor, Science Education (2004-2005).**

**School of Education and Professional Services, New York Institute of Technology, Old Westbury, New York.**

Responsibilities included teaching science education courses in the School of Teacher Education and Leadership and pursuing a professional agenda of research and service in the field of science education.

**Teaching and Research Assistant, Science Education (2002-2004).**

**Science Education Teacher Preparation Program, University of Iowa, Iowa City, Iowa.**

Responsibilities included teaching science education courses, clinical and student teaching supervision, and project coordinator for Iowa Chautauqua for Promoting Current Reform.

**Adjunct Science Instructor (1999-2004)**

**College of Science, Kirkwood Community College, Cedar Rapids, Iowa.**

Responsibilities included teaching chemistry and environmental science courses.

**Public School Teaching Experience - 3 years**

**Southeast Jr. High, Iowa City Community School District, Iowa City, Iowa (2001-2002).**

Responsibilities included teaching physical science.

**Lone Tree High School, Lone Tree Community School District, Lone Tree, Iowa (1999-2001)**

Responsibilities included teaching physics, chemistry, biology, environmental science, earth science, and geology courses.

**AWARDS & PROFESSIONAL RECOGNITION**

- Million Dollar Researcher Award (2012). Awarded by Utah State University's Office of Research and Graduate Studies.
- Researcher/Scholar of the Year Award recipient (2012). Awarded by Utah State University's School of Teacher Education and Leadership.
- Outstanding Service as the Association of Science Teacher Education (ASTE) Newsletter Editor (2012). Awarded by Association of Science Teacher Education (ASTE).
- Researcher/Scholar of the Year Award recipient (2007). Awarded by Utah State University's Regional Campus and Distance Education Association (RCDEA).
- Howard Hughes Teacher Research Grant Recipient (Summer 2000, Summer 2002). Summer internships as laboratory assistant with Dr. Stephen Hendrix at the University of Iowa assisting in field ecology research.

**PROFESSIONAL AFFILIATIONS**

- American Educational Research Association (AERA) (2012)
- Association for Science Teacher Education (ASTE) (2007-present)
- National Association of Research in Science Teaching (NARST) (2009)
- Utah Science Teachers Association (USTA) (2005-2010)
- National Science Teachers Association (NSTA) (2003-2005; 2012)
- International Association for Science, Technology, and Society (IASTS) (2006-2009)
- Regional Campuses and Distance Education Association (RCDEA) (2006-2008)

## RESEARCH

### Research Interests:

#### Factors influencing reform in science education

- Science teacher professional development (pre-service & in-service)
- Inquiry and Model Based Inquiry instructional strategies
- Technology integration in science instruction

## PUBLICATIONS

### Journal Articles (Refereed)

36. \*Duffy, A. M., Wolf, P. G., Barrow, J., Longhurst, M., & **Campbell, T.** (in press). Ecological investigations within an interactive plant community simulation. *Science Scope*.
35. \***Campbell, T.**, Longhurst, M., Duffy, A. M, Wolf, P. G., & Shelton, B. E. (2013, January). Science Teaching Orientations and Technology-enhanced Tools for Student Learning in Science. *Research in Science Education*. First published online 12 January 2013. DOI 10.1007/s11165-012-9342-x.
34. Melville, W., **Campbell, T.** & Bartley, A. (2012, December). Leadership and modeling exemplary practice: A re-imagined role for the head of department. *School Science Review*, 94(347), 35-39.
33. **Campbell, T.**, Longhurst, M., Duffy, A. M., Wolf, P. G., & Nagy, R. (2012, November). Investigating human impact in the environment with faded scaffolded inquiry supported by technologies. *Science Activities: Classroom Projects and Curriculum Ideas*, 49:4, 99-107.
32. **Campbell T.** & Abd-Hamid, N. (2012, October). Technology Use in the Science Instruction (TUSI): Technology and Science Education Reform. *Journal of Science Education and Technology*. First published online 4 October 2012. DOI 10.1007/s10956-012-9415-7.
31. **Campbell, T.**, Oh, P.S., & Neilson, D. (2012, October). Discursive Modes and Their Pedagogical Functions in Model-Based Inquiry (MBI) Classrooms. *International Journal of Science Education*. 34(15), 2393-2419. First published online 7 August 2012. DOI:10.1080/09500693.2012.704552
30. **Campbell, T.** & Neilson, D. (2012, September). Modeling Electricity: Model-Based Inquiry with Demonstrations and Investigations. *The Physics Teacher*. 50, 347-350.
29. **Campbell, T.**, Melville, W., & Bartley, A. (2012, September). Teachers, science chairs and science departments: Supporting best practices in science instruction. *The Science Teacher*. 79(6), 60-63.
28. **Campbell, T.**, Lee, H., Kwon, H., & Kyungsuk, P.(2012, May). Student motivation and interests as proxies for forming STEM identities. *Journal of the Korean Association for Science Education*, 32(3), 532-540.
27. **Campbell, T.** (2012, May). Building Community in Triads Involved in Science Teacher Education: An Innovative Professional Development Model. *Brock Education Journal*, 21(2), 53-69.
26. Zhang, D. & **Campbell, T.** (2012, April). An Exploration of the Potential Impact of the Integrated Experiential Learning Curriculum in Beijing, China. *International Journal of Science Education*. 34(7), 1093-1123. First published online 27 October 2011. DOI:10.1080/09500693.2011.625057.
25. Melville, W., **Campbell, T.**, Fazio, X. & Bartley, A. (2012, March). The departmental script as an ongoing conversation into the phronesis of teaching science as inquiry. *Journal of Science Education and Technology*. First published online 3 March 2012. DOI: 10.1007/s10956-012-9370-3.

24. \***Campbell, T.**, Wolf, P. G., Der, J. P., Pakenham, E., & Abd-Hamid, N. (2012, January). Scientific inquiry in the genetics laboratory: Biologists and university science teacher educators collaborating to increase engagements in science processes. *Journal of College Science Teaching*, 41(3), 82-89.
23. Zhang, D. & **Campbell, T.** (2011, November). The psychometric evaluation of a three-dimension elementary science attitude survey. *Journal of Science Teacher Education-Elementary Science Education*. 22(7), 595-612. First published online 14 July 2010. DOI 10.1007/s10972-010-9202-3.
22. Erdogan, I., **Campbell, T.**, & Abd-Hamid, N. (2011, June). The student action coding sheet (SACS): An instrument for illuminating the shifts toward student-centered science classrooms. *International Journal of Science Education*. 33(10), 1313 – 1336. First published online 03 August 2010. DOI 10.1080/09500693.2010.490926.
21. \***Campbell, T.**, Zhang, D., & Neilson, D. (2011, June). Model based inquiry in the high school physics classroom: An exploratory study of implementation and outcomes. *Journal of Science Education and Technology*, 20(3), 258-269. First published online 23 August 2010. DOI 10.1007/s10956-010-9251-6.
20. **Campbell, T.** (2011, April). Using metaphors to investigate the personal frameworks of pre-service science teachers as they experience a science in society course. *Research in Science & Technological Education*, 29(1), 71–90.
19. **Campbell, T.** & Lott, K. (2010, December). Triad dynamics: Investigating the importance of social forces, positions, and storylines. *Teaching Education*. 21(4), 349–366.
18. \*Neilson, D., **Campbell, T.**, & Allred, B. (2010, November). Model-based inquiry in physics: A buoyant force module. *The Science Teacher*, 77(8), 38-43.
17. \***Campbell T.**, Wang, S., Hsu, H., Duffy, A., & Wolf, P. (2010, October). Learning with web tools, simulations, and other technologies in science classrooms. *Journal of Science Education and Technology*. 19(5), 505-511. First published online 13 April 2010. DOI 10.1007/s10956-010-9217-8.
16. **Campbell, T.**, Oh, P. S., Shin, M. & Zhang, D. (2010 August). Classroom instructions observed from the perspectives of current reform in science education: Comparisons between Korean and U.S. classrooms. *Eurasian Journal of Science Mathematics and Technology Education*, 6(3), 151-162.
15. **Campbell, T.**, Medina-Jerez, W., Erdogan, I., & Zhang, D. (2010, January). Exploring science teachers' attitudes and knowledge about environmental education in three international teaching communities. *International Journal of Environmental and Science Education*, 5(1), 3-29.
14. **Campbell, T.**, Abd-Hamid, N, & Chapman, H. (2010, February). Development of instruments to assess teacher and student perceptions of inquiry experiences in science classrooms. *Journal of Science Teacher Education*, 21(1), 13-30. First published online 04 Nov 2009.
13. \***Campbell, T.** & Neilson, D. (2009, March). Student ideas and inquiries: Investigating friction in the physics classroom. *Science Activities: Classroom Projects and Curriculum Ideas*, 46(1), 13-16.
12. Mack, P., **Campbell, T.**, & Abd-Hamid, N. (2008, October). Issues in survey assessments of STS courses. *Bulletin of Science, Technology, and Society*, 28(5), 408-413.
11. **Campbell, T.** & Bohn, C. (2008, April). Science laboratory experiences of high school students across one state in the U.S.: Descriptive research from the classroom. *Science Educator*. 17(1), 36-48.
10. **Campbell, T.** (2008, March). A summer test writing workshop: Jumping in. *The Science Teacher*. 75(3), 72-78.

9. **Campbell, T.** (2008, February). The capacity of instructional technologists to provide systemic support for science education reform. *Teacher Development*, 12(1), 67-83.
8. Erdogan, I. & **Campbell, T.** (2008, November). Teacher questioning and interaction patterns in classrooms facilitated with differing levels of constructivist teaching practices. *International Journal of Science Education*. 30(14), 1891-1914. First published online 02 Oct 2007.
7. **Campbell, T.** (2007, April/May). Community collaborators: A commentary. *The Science Teacher*, 75(4), 10.
6. **Campbell, T.** (2006, October). Evolution and online instruction: Using a grounded metaphor to explore the advantageous and less advantageous characteristics of online instruction. *Bulletin of Science, Technology, and Society*, 26(5), 378-387.
5. **Campbell, T.** (2006, January). Reassessing possible naturalized ideology regarding science education and religion. *Science Education Review*, 5(2), 44-50.
4. **Campbell, T.** (2006, July/August). The distant exploration of wolves: Using technology to explore student questions about wolves. *Journal of College Science Teaching*, 35(7), 16-21.
3. **Campbell, D. T.** (2006, March). A qualitative investigation of the factors influencing the implementation of reform efforts in science education. *Improving Schools*, 9(1), 61-68.
2. **Campbell, D. T.** & Erdogan, I. (2005, June). A look at student action in the science classroom. *Science Education International*, 16(2), 101-113.
1. \***Campbell, T.** & Worst, B. (2005, January). Forensic science in the elementary classroom. *Networks: An Online Journal for Teacher Research*, 8(1).

## Books

1. **Campbell, T.** (2010, May). *Investigating the impact of science teacher professional development: From views on teaching and learning to influences on teaching practice.* (Monograph) Saarbrücken Germany: LAP Lambert Academic Publishing. ISBN 978-3-8383-6149-9.

## Book Chapters

4. \***Campbell, T.** & Smith, E. R. (in press). Envisioning the changes in teaching framed by the national science education standards teaching standards. In Binadja, A, (Eds.), *Improving Science Learning for All Students*.
3. **Campbell, T.**, Oh, P.S., & Neilson, D. (2013, January). Reification of Five Types of Modeling Pedagogies with Model-Based Inquiry (MBI) Modules for High School Science Classrooms. In M.S.Khine & I. M. Saleh. *Approaches and Strategies in Next Generation Science Learning* (pp. 106-126). Hershey, Pennsylvania: IGI Global. DOI: 10.4018/978-1-4666-2809-0.ch006
2. Zhang, D. & **Campbell, T.** (2012, September). Psychometrics: Concerns and Future Directions in Science and STEM Education Research in *Advances in Psychology Research. Volume 91* and edited book by Nova Science Publishers.
1. Wang, S., Hsu, H., & **Campbell, T.** (2009, December). Integrating technology into science instruction: Science learning, literacy, and the development of 21st century digital literacy. In Besnoy, K.D., & Clarke L. (Eds.), *High-Tech Teaching Success! A Step-by-Step Guide to Using Innovative Technology in Your Classroom* (pp. 71-119). Waco, TX: Pruffrock Press.

## Conference Proceedings (Refereed)

3. Shelton, B, Olsen, J. & **Campbell, T.** S'cape from Formality: Embedded and Automatic Assessments within Simulation Games (in press). *Proceedings of the Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC) 2012 International Conference*. Orlando, Florida.

2. **Campbell, T.** & Lee, H. (2011, June). *Student motivation and interests as proxies for forming STEM identities*. (2011, June). *Proceedings of the STEAM (Science, Technology, Engineering, Arts, & Mathematics) Education Project Professional International Seminar titled Integrated Education Approach among STEAM K-12 School Subjects*, June 22 & 24, Daegu and Seoul, Republic of Korea.

1. **Campbell, T.** (2008). Building Community in Triads involved in Science Teacher Education. *Proceedings of the 2008 U.S-SINO Workshop on Mathematics and Science Education: Common Priorities that Promote Collaborative Research*, June 22-27, Murfreesboro, TN. [http://www.mtsu.edu/sino\\_us/working\\_groups/US\\_SinoProceedings.pdf](http://www.mtsu.edu/sino_us/working_groups/US_SinoProceedings.pdf)

### Other Publications

1. **Campbell, T.** (2007). *The Science Laboratory Experiences of Utah's High School Students*. Salt Lake City, Utah: Curriculum and Instruction, Utah State Office of Education (USOE). Accepted by USOE and published as ERIC Document ED497728.

### Abstracts included in Conference Proceedings

11. Longhurst, M., **Campbell, T.**, Duffy, A. M., Wolf, P. G., & Shelton, B. E. (2013). Reexamining Science Teaching Orientations and Use of Technology-enhanced Tools for Student Learning: One Year Later. *Proceedings of the 2012 International Conference of the Association for Science Teacher Education (ASTE)*. Jan. 10-12. Charleston, South Carolina.

10. **Campbell, T.**, Oh, P.S., & Neilson, D. (2013). Five Modeling Pedagogies as Pedagogical Transformations of Scientific Practices of Modeling. (2013, January). *Proceedings of the 2012 International Conference of the Association for Science Teacher Education (ASTE)*. Jan. 10-12. Charleston, South Carolina.

9. **Campbell, T.**, Oh, P.S., & Neilson, D. (2012). Discursive Modes in Model-Based Science Inquiry Classrooms. *Proceedings of the 2012 International Conference of the Association for Science Teacher Education (ASTE)*. Jan. 5-8, Clearwater, Florida. <http://theaste.org/publications/proceedings/2012proceedings.pl>

8. **Campbell, T.**, Longhurst, M., Duffy, A., Wolf, P., & Shelton, B. E. (2012). Technology Use in Science Classrooms and Reformed Teaching. *Proceedings of the 2012 International Conference of the Association for Science Teacher Education (ASTE)*. Jan. 5-8, Clearwater, Florida. <http://theaste.org/publications/proceedings/2012proceedings.pl>

7. Smith, E.R. & **Campbell, T.** (2012). Classroom Instruction Observed from the Perspectives of Current Reform in Science Education: Revisiting the TIMSS Video Study with a Reform Lens. *Proceedings of the 2012 International Conference of the Association for Science Teacher Education (ASTE)*. Jan. 5-8, Clearwater, Florida. <http://theaste.org/publications/proceedings/2012proceedings.pl>

6. Melville, W., **Campbell, T.**, Bartley, A., Fazio, X., Tkaczyk, N., & Stefanile, A. (2012). Creating RTOP profiles to investigate pre-service science teachers and the teaching of science as inquiry. *Proceedings of the 2012 International Conference of the Association for Science Teacher Education (ASTE)*. Jan. 5-8, Clearwater, Florida. <http://theaste.org/publications/proceedings/2012proceedings.pl>

5. Lee, H. & **Campbell, T.** (2012). Student Motivation and Interests as Proxies for Forming STEM Identities. (2012 January). *Proceedings of the 2012 International Conference of the Association for Science Teacher Education (ASTE)*. Jan. 5-8, Clearwater, Florida. <http://theaste.org/publications/proceedings/2012proceedings.pl>

4. **Campbell, T.**, Oh, P. S., Shin, M. & Zhang, D. (2010). Reform efforts in science education: Comparisons between Korean and U.S. classrooms. (2010, January). *Proceedings of the 2010 International Conference of the Association for Science Teacher Education (ASTE)*, Jan. 14-16, Sacramento, CA. <http://theaste.org/cgi-bin/2010conference/2010proceedings.pl>

3. Lott, K., & **Campbell, T.** (2009). Exploring the link between socioeconomic status and differing science laboratory experiences of high school students. *Proceedings of the 2009 International Conference of the Association for Science Teacher Education (ASTE)*, Jan. 8-10, Hartford, CT. <http://theaste.org/cgi-bin/2009conference/2009proceedings.pl>

2. **Campbell, T.**, Abd-Hamid, N., & Chapman, H. (2009). Development of Instruments to Assess Teacher and Student Perceptions of Inquiry Experiences in Science Classrooms. *Proceedings of the 2009 International Conference of the Association for Science Teacher Education (ASTE)*, Jan. 8-10, Hartford, CT. <http://theaste.org/cgi-bin/2009conference/2009proceedings.pl>

1. **Campbell, T.** & Lott, K. (2008). Triad Dynamics in Science Teacher Professional Development: The Influence and Fluidity of Storylines, Positions, and Social forces Found in a Pilot Professional Development Project. *Proceedings of the 2008 International Conference of the Association for Science Teacher Education (ASTE)*, Jan. 9-12, St. Louis, MO. [http://theaste.org/publications/proceedings/2008proceedings/2008\\_ASTE\\_Proceedings.pdf](http://theaste.org/publications/proceedings/2008proceedings/2008_ASTE_Proceedings.pdf)

### **Manuscripts Under Review**

\***Campbell, T.**, ZuWallack, B. A., Longhurst, M., Shelton, B. E., & Wolf, P. G. Reexamining science teaching orientations and the use of technology enhanced tools for student learning. *International Journal of Science Education*. (Submitted January 14, 2013).

\***Campbell, T.**, Dowdle, G., Olsen, J., & Longhurst, M. Gaming as a platform for developing science practices. *Science Activities: Classroom Projects and Curriculum Ideas*. (Submitted January 12, 2013).

\*Robertshaw, M. B. & **Campbell, T.** Constructing Arguments: Investigating Pre-Service Science Teachers' Argumentation Skills in a Socio-Scientific Context. *Science Education International*. (Submitted December 12, 2012).

Melville, W., **Campbell, T.**, Bartley, A., Fazio, X., Tkaczyk, N. and Stefanile, A. Problematizing the practicum to integrate practical knowledge. *Science Education*. (Submitted November 8, 2012).

\*Shelton, B, Olsen, J., **Campbell, T.**, & Coster, D. Grounding Cyber-Enabled Learning on Usage, Access, Achievement, and Beliefs. *American Educational Research Journal*. (Submitted October 22, 2012).

Melville, W., Jones, D., & **Campbell, T.** *Re-imagining the Science Department*. NSTA Press. (Book proposal submitted September 28, 2012).

\*Talbot, J. & **Campbell, T.** Examining A Teacher's Negotiation Through Change: Understanding the Influence of Beliefs on Behavior. *Teacher Development*. (Submitted June 14, 2012).

### **Manuscripts/Books in Progress (Data Collected, Analyses Completed and Various Stages of Manuscript Development)**

Zhang, D. & **Campbell, T.**, An examination of impact of teacher quality and 'opportunity gap' on student science achievement in China. (Spring 2012 expected completion date).

Melville, W., Jones, D., & **Campbell, T.** Distributed leadership with the aim of 'reculturing': A departmental case study. (Spring 2012 expected completion date).

Oh, P. S. & **Campbell, T.** Understanding of Science Classrooms in Different Countries through the Analysis of Discourse Modes for Building 'Classroom Science Knowledge' (CSK). (Spring 2012 expected completion date).

Melville, W., Jones, D. & **Campbell, T.** Teacher empowerment and the teaching of science as inquiry. (Spring 2013 expected completion date).

\*Bursztyn, N., Pederson, J., Shelton, B., **Campbell, T.**, & Walker, A. Making introductory geoscience courses un-boring with universally accessible virtual field trips that utilize geo-referenced mobile game technology. (Spring 2013 expected completion date).

\***Campbell, T.**, Oh, P. Maughn, M. & Kiriazis N. A review of modeling pedagogies: the pedagogical functions, effectiveness, and discursive acts of modeling in K–12 science classrooms. (Fall 2012 expected completion date).

### **Research in Progress (Various stages of Data Collection)**

Melville, W. & **Campbell, T.** *The re-emergence of virtues in science education*. Book. (Spring 2013 expected proposal completion date).

Melville, W. & **Campbell, T.** *Professional learning for teaching the practices of science*. Book. (Spring 2013 expected proposal completion date).

\*Longhurst, M. & **Campbell, T.** *Influence of Appropriation Levels on Implementation of Teacher Professional Learning*. (Spring 2013 expected completion date).

\*Signifies work completed with students.

## **GRANTS FUNDED**

*(Approximately \$3,000,000 Dollars in Total Grant Funding)*

6. **Principal Investigator (\$2,500,000)**. *Cyber-enabled learning: Digital Natives in Integrated Scientific Inquiry Classrooms* (Funded September 1, 2010-August 31, 2015). National Science Foundation Discovery Research K-12 (Number 6985958). Collaborative proposal submitted with Drs. Paul Wolf and Dan Coster from the USU College of Science, Dr. Brett Shelton from the USU College of Education, and Drs. Shiangkwei Wang & Hui-Yin Hsu from the New York Institute of Technology. Role: Principal Investigator and Primary Writer. (\$2,500,000 USU/\$1,000,000 NYIT)  
Project Website: <http://cadrek12.org/projects/cyber-enabled-learning-digital-natives-integrated-scientific-inquiry-classrooms-collaborati>

5. **Principal Investigator (\$305,000)**. *Northern Utah Science Teaching and Laboratory Initiative*. (2009-2012). Mathematics and Science Partnership Program with oversight from the Utah State Office of Education. Collaborative proposal submitted with Co-PI Dr. J.R. Dennison, Professor of Physics at USU, Cache, Logan, and Box Elder School Districts and InTech Collegiate High School. Role: Principal Investigator and Primary Writer.  
Project Website: <http://sites.google.com/site/usurtop/home>

4. **Principal Investigator (\$5,000)**. *A Science Education Initiative for High School Science Teachers in Utah*. (2007-2008). Utah State Office of Education. Project goal: Create a state-wide initiative to offer science teacher professional development focused on science laboratory experiences. Role: Principal Investigator and Primary Writer.

3. **Principal Investigator (\$32,294)**. *The Science Laboratory Experiences of Utah's High School Students*. (2006-2007). Utah State Office of Education. Project goal: Investigate the science laboratory experiences of Utah's high school students. Role: Principal Investigator and Primary Writer.

2. **Principal Investigator (\$15,000)**. *Joint Professional Development for Pre-Service and In-Service Science Teachers in Rural Settings*. (2005-2007). Utah State University New Faculty Research Grant Program. Project goal: Implement and research the effectiveness of a joint professional development project for pre- and in-service science teachers. Role: Principal Investigator and Primary Writer.

1. **Co-Principal Investigator (90,000)**. *Iowa Chautauqua for Promoting Current Reform in Science Education*. Iowa State Office of Education Math Science Partnership Grant (2003-2004). Project goal: Implement and research the effectiveness of a Chautauqua professional development program for K-12 science teachers (with Lead PI – Robert Yager). Role: Co-Principal Investigator, Secondary Writer, and Project Coordinator.



## GRANTS SUBMITTED

**Co-Principal Investigator (40,000).** *Politics and the departmental chair: Reforming science departments.* PhysTEC Grant (submitted Nov 6, 2012). Project goal: Better understand how do the relationships that operate within the contested space of science departments' professional learning shape the politics and subsequent work of departmental chairs (with Lead PI – Wayne Melville & Co-PI – Ian Hardy). Role: Co-Principal Investigator, Co-writer, and Quantitative Research Oversight.

## FELLOWSHIP FUNDED

**Gardner Junior Faculty Travel Fellowship Award (\$2,000).** (2010). This Utah State University Fellowship provides funding for junior faculty for international travel supportive of international research and collaborations. A proposal was funded to support travel to King's College London from June 7<sup>th</sup>-18<sup>th</sup>, 2010 to collaborate with the Science Technology and Education Group (STEG). Professor Justin Dillon, Head of the STEG research group, Editor of the *International Journal of Science Education* and President of the European Science Education Research Association, provided a letter of support for this proposal and hosted the visit which included a seminar presentation and participation in several one day conferences.

## PRESENTATIONS

### International Presentations – Scholarship

52. Shelton, B, Olsen, J. & **Campbell, T.** *Investigating Cyber-Enabled Learning Usage, Access, Achievement, and Beliefs* (2012 March). Presentation at the American Educational Research Association (AERA) 2012 International Conference. Vancouver, British Columbia, Canada.

51. \*Robertshaw, M. B. & **Campbell, T.** *Talking Science in the Wild: A Study to Investigate Pre-service Science Educators' Argumentation Skills in a Socio-Scientific Context* (2012 March). Presentation at the American Educational Research Association (AERA) 2012 International Conference. Vancouver, British Columbia, Canada.

50. **Campbell, T.** *Student motivation and interests as proxies for forming STEM identities.* (2011, June). Invited Keynote Speaker for Integrated Education Approach among STEAM K-12 School Subjects. Kyungpook National University, Daegu & Ehwa Womans University, Seoul, Republic of Korea.

49. Oh, P. S., & **Campbell, T.** *Developing a Framework for Analyzing Science Classroom Discourse: Knowledge-Sharing (KS) Modes.* (2010 June) Invited Seminar, Kings College London, London, England, United Kingdom.

48. **Campbell, T.** *International Classroom Instructions Observed from the Perspectives of Current Reform in Science Education.* (2009 December) Invited Seminar, Lakehead University, Thunder Bay, Ontario, Canada.

### National Presentations – Scholarship

47. Longhurst, M., **Campbell, T.**, Duffy, A. M., Wolf, P. G., & Shelton, B. E. *Reexamining Science Teaching Orientations and Use of Technology-enhanced Tools for Student Learning: One Year Later* (2013, January). Presentation at the Association for Science Teacher Education (ASTE) 2013 International Conference. Charleston, South Carolina.

46. **Campbell, T.**, Oh, P.S., & Neilson, D. *Five Modeling Pedagogies as Pedagogical Transformations of Scientific Practices of Modeling.* (2013, January). Presentation at the Association for Science Teacher Education (ASTE) 2013 International Conference. Charleston, South Carolina.

45. Shelton, B, Olsen, J. & **Campbell, T.** *S'cape from Formality: Embedded and Automatic Assessments within Simulation Games* (2012 December). Presentation at the Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC) 2012 International Conference. Orlando, Florida.

44. \***Campbell T.** *Collaborative Projects: Coordination or Collaboration.* (2012, June). Presentation at the Annual 2012 National Science Foundation Discovery Research K-12 Principal Investigator Meeting. Washington, D.C.
43. \***Campbell T.,** Longhurst, M., Wang, S., Hsu, H., & Runco, L. *Cyber-enabled Learning: Beginning with a Baseline.* (2012, June). Presentation at the Annual 2012 National Science Foundation Discovery Research K-12 Principal Investigator Meeting. Washington, D.C.
42. **Campbell, T.,** Oh, P.S., & Neilson, D. *Discursive Modes in Model-Based Science Inquiry Classrooms* (2012 January). Presentation at the Association for Science Teacher Education (ASTE) 2012 International Conference. Clearwater, Florida.
41. **Campbell, T.,** Longhurst, M., Duffy, A., Wolf, P., & Shelton, B. E. (2012 January). *Technology Use in Science Classrooms and Reformed Teaching.* Presentation at the Association for Science Teacher Education (ASTE) 2012 International Conference. Clearwater, Florida.
40. Smith, E.R. & **Campbell, T.** *Classroom Instruction Observed from the Perspectives of Current Reform in Science Education: Revisiting the TIMSS Video Study with a Reform Lens.* Presentation at the Association for Science Teacher Education (ASTE) 2012 International Conference. Clearwater, Florida.
39. Melville, W., **Campbell, T.,** Bartley, A., Fazio, X., Tkaczyk, N., & Stefanile, A. *Creating RTOP profiles to investigate pre-service science teachers and the teaching of science as inquiry.* (2012 January). Presentation at the Association for Science Teacher Education (ASTE) 2012 International Conference. Clearwater, Florida.
38. Lee, H. & **Campbell, T.** *Student Motivation and Interests as Proxies for Forming STEM Identities.* (2012 January). Presentation at the Association for Science Teacher Education (ASTE) 2012 International Conference. Clearwater, Florida.
37. \*Duffy, A., **Campbell, T.,** & Wolf, P. *The Virtual Populations Genetics (VPG) Simulation System: An Example of Learning 'With' Cyber-Enabled Technologies in Science Classrooms.* (2011, March). Presentation at the 2011 National Science Teachers Association Research Dissemination Conference. San Francisco, California.
36. \***Campbell, T.,** Duffy, A., & Wolf, P. *OpenSim as an example of Cyber-enabled Technologies for facilitating Science as Inquiry.* (2011, March). Presentation at the 2011 Cyberlearning Tools for STEM Education (CyTSE) conference. Berkeley, California.
35. **Campbell, T.,** Zhang, D., & Neilson, D. *Model Based Inquiry in High School Physics: Examples and Outcomes of Enactment.* (2011, January). Presentation at the Association for Science Teacher Education (ASTE) 2011 International Conference. Minneapolis, Minnesota.
34. \***Campbell T.,** Wang, S., & Hsu, H., *Cyber-enabled learning: Digital Natives in Integrated Scientific Inquiry Classrooms.* (2010, December) Presentation at the Annual 2010 National Science Foundation Discovery Research K-12 Principal Investigator Meeting. Washington, D.C.
33. Lott, K. & **Campbell, T.** *ThinkTank: A New Technology for Collecting and Analyzing Focus Group Data.* (2010, January). Workshop at the Association for Science Teacher Education (ASTE) 2010 International Conference. Sacramento, California.
32. **Campbell, T.,** Oh, P. S., Shin, M. & Zhang, D. *Reform efforts in science education: Comparisons between Korean and U.S. classrooms.* (2010, January). Presentation at the Association for Science Teacher Education (ASTE) 2010 International Conference. Sacramento, California.
31. Staver, J. R., Bryan, L., Finson, K., & **Campbell, T.** *ASTE Publications.* (2010, January). Presentation at the Association for Science Teacher Education (ASTE) 2010 International Conference. Sacramento, California.
30. Lott, K., & **Campbell, T.** *Exploring the link between socioeconomic status and differing science laboratory*

*experiences of high school students* (2009, January). Presentation at the Association for Science Teacher Education (ASTE) 2009 International Conference. Hartford, Connecticut.

29. **Campbell, T.**, Abd-Hamid, N., & Chapman, H. *Development of Instruments to Assess Teacher and Student Perceptions of Inquiry Experiences in Science Classrooms* (2009, January). Presentation at the Association for Science Teacher Education (ASTE) 2009 International Conference. Hartford, Connecticut.

28. Yager, R., Blunck, S. & **Campbell, T.** *Broadening contexts in school science: Can it all be assessed for success?* (2008, January/February). Presentation at the 23rd Annual Meeting of the International Association for Science, Technology, & Society (IASTS). Baltimore, Maryland.

27. Mack, P. & **Campbell, T.** *The Intentions and Impact of Science, Technology, and Society General Education Courses for Undergraduates* (2008, January/February). Presentation at the 23rd Annual Meeting of the International Association for Science, Technology, & Society (IASTS). Baltimore, Maryland.

26. **Campbell, T.** & Lott, K. *Triad experiences: The impact of joint professional development for pre- and in-service science teachers on triad dynamics* (2008, January). Presentation at the Association for Science Teacher Education (ASTE) 2008 International Conference. St. Louis, Missouri.

25. **Campbell, T.** *What Difference Does it Make? Engaging Students in Science Technology and Society Instruction* (2007, February). Presentation at the 22nd Annual Meeting of the International Association for Science, Technology, & Society (IASTS). Baltimore, Maryland.

24. **Campbell, T.** & Erdogan, I. *How can teacher questioning influence student learning: Providing scaffolding through questions* (2006, April). Study presented at the 2006 National Science Teachers Association (NSTA) National Convention. Anaheim, California.

23. **Campbell, T.** *Investigating the Extent to Which Pre-service Instructional Technologists' Teaching Philosophies are affected by a One-Semester Course Focused on Science Instruction* (2006, February). Study presented at the 21<sup>st</sup> Annual Meeting of the International Association for Science, Technology, & Society (IASTS). Baltimore, Maryland.

22. **Campbell, T.** *The Perceived Threat of Online Instruction: A Case Study of the First-time Online Instructional Experiences of an Instructor in an Instructional Technology Graduate Program* (2006, February). Study presented at the 21<sup>st</sup> Annual Meeting of the International Association for Science, Technology, & Society (IASTS). Baltimore, Maryland.

21. **Campbell, T.** *Analysis of changes in teachers' views on teaching and learning after participation in the Iowa Chautauqua for Reform and the effects these changes have on students* (2005, February). Study presented at the 20th Annual Meeting of the International Association for Science, Technology, & Society (IASTS). Baltimore, Maryland.

20. **Campbell, T.** & Erdogan, I. *What can student actions tell us about science classrooms?* (2005, April). Study presented at the 2005 National Science Teachers Association (NSTA) National Convention. Dallas, Texas.

### **Regional Presentations – Scholarship**

19. **Campbell, T.** *Factors Influencing Reform Efforts in Science Education* (2006, December). Presentation at the 2006 National Science Teachers Association (NSTA) Western Regional Convention. Salt Lake City, Utah.

18. **Campbell, T.**, Wathen, M., Herron, D., & Madsen, J. *Joint Pre- and In-service Pedagogical Action Research accommodated through Clinical Experiences of Pre-Service Teachers* (2006, December). Presentation at the 2006 National Science Teachers Association (NSTA) Western Regional Convention. Salt Lake City, Utah.

17. **Campbell, T.** *The Inaugural Technology in Math, Science, and Engineering Instruction Conference designed to meet the needs of a Local Education Community* (2006, September). Presentation at the 2006 University Continuing Education Association (UCEA) West Regional Conference. Salt Lake City, Utah.

16. **Campbell, T.** *A long-term inquiry project tracking wolves using GPS data available via the internet: The struggles and successes of facilitating long term inquiry* (2006, February). Study presented at the 2006 Utah Science Teachers Association (USTA) Annual Conference. Cedar City, Utah.

15. **Campbell, T.,** Anderson, P., & Chung, C. *Creating a voice for teachers in the area of professional development* (2003, October). Study presented at the 2003 Annual Iowa Science Teachers Section (ISTS) of the Iowa Academy of Science. Des Moines, Iowa.

### State & University Presentations

14. **Campbell, T.,** Oh, P.S., & Neilson, D. (2012, February). *Reification of Five Types of Modeling Pedagogies with Model-Based Inquiry (MBI) Modules for High School Science Classrooms*. Invited presentation to the Utah State University Mathematics Journal Club, Geology, and Provost Lecture Series. Logan, Utah.

13. **Campbell, T.** *Science Pedagogy-Pulling Together Practices, Processes, and Content*. (2011, April). Invited presentation to the Utah State Office of Education Elementary Principals Mathematics and Science Leadership Academy. Salt Lake City, Utah.

12. **Campbell, T.** *The Nature of Science and the Utah K-2 Science Core*. (2010, October). Invited presentation to the Salt Lake City School District K-2 Professional Development Academy. Salt Lake City, Utah.

11. **Campbell, T.** *International Comparative Research in Science Education* (2009, November). Invited presentation for Visiting Korean Student Teachers at the Ogden School District. Ogden, Utah.

10. **Campbell, T.** *Frameworks and Learning Progressions* (2009, May). Invited presentation to the Utah State Office of Education K-2 Core Steering Committee. Salt Lake City, Utah.

9. **Campbell, T.** *Scientific Inquiry* (2009, April). Invited presentation to the Utah State Office of Education K-2 Core Steering Committee. Salt Lake City, Utah.

8. **Campbell, T.** & Lott, K. *Students Engaged in University Classrooms* (2009, March). Invited presentation to the Utah State University Faculty Sponsored by the Vice Provost for Faculty Development and Diversity. Logan, Utah.

7. **Campbell, T.** *Possibilities for Future Collaborations between NUCC and USU focused on Science Education* (2008, December). Presentation to the Northern Utah Curriculum Consortium (NUCC). Murray, Utah.

6. **Campbell, T.** & Lott, K. *Engaging Students in University Classrooms* (2008, November). Invited presentation to the Utah State University Faculty Sponsored by the Vice Provost for Faculty Development and Diversity. Logan, Utah.

5. **Campbell, T.** *The Reformed Teaching Observation Protocol (RTOP) and its use for math/science teaching research* (2008, September). Invited presentation to the Utah State University Mathematics department. Logan, Utah.

4. **Campbell, T.** *The Science Laboratory Experiences of Utah's High School Students* (2007, November). An invited presentation at the Utah State Office of Education's State Science Education Coordinator Committee meeting. Salt Lake City, Utah.

3. **Campbell, T.** *Responsive Instruction: Shaping Curriculum to Better Respond to Student Needs* (2007, March). Invited presentation at the Regional Campuses and Distance Education Association Spring Conference. Vernal, Utah.

2. **Campbell, T.** *A focus on student centered instruction: A session for modifying curriculum to make instruction more meaningful and relevant to students* (2006, August). Presentation at the 2006 Fall Extension Continuing Education Association (ECEA) Conference. Roosevelt, Utah.

1. **Campbell, T.** & Mauche Faatz, R. *Facilitating instruction with technology: Weblogs and Internet image searching* (2006, April). Presentation at the 2006 Snow College/Utah State University-Ephraim Technology in Math, Science, and Engineering Instruction (TMSEI) Conference. Ephraim, Utah.

## **PRESENTATIONS/CONFERENCE PROCEEDINGS**

*(Accepted)*

Shelton, B, Olsen, J. & **Campbell, T.** *S'cape the Ordinary: Metacognitive-Supported Activity for Inquiry Learning in Virtual Environments* (2012 March). Presentation at the American Educational Research Association (AERA) 2013 International Conference. San Francisco, California.

**Campbell, T.,** Shelton, B.E., Duffy, A. M., Longhurst, M., & Wolf, P. G. *Cyber-enabled learning in Unity: Scientific inquiry and gaming supported by assessment.* (2013, April). Submitted for presentation at the 2013 National Science Teachers Association (NSTA) National Convention. San Antonio, Texas.

## **UNIVERSITY TEACHING**

### **Utah State University, Logan, Utah (2005-present)**

#### **College of Education and Human Services**

##### *Courses Taught – Utah State University*

##### SCED 4210 – Cognition and Evaluation of Student Learning

A course Designed to lead the pre-service secondary school teacher to address two questions: (1) How do students construct concepts; discover relationships; and develop knowledge-level skills, comprehension and communication skills, and problem-solving abilities? (2) How do teachers monitor students' progress, evaluate and communicate their achievement, and interpret the results of system-wide and standardized test results to students and their parents?

##### SCED 5500 – Student Teaching Seminar

Ten-week capstone seminar focused upon student teaching issues, professional development, and principles of effective instruction, emphasizing reflective teaching.

##### SCED 3300 – Secondary Education Clinical Experience I

The first clinical practicum (40 hours minimum) in middle and secondary schools, arranged by special methods instructors in department.

##### SCED 3400 – Teaching Science I

A methods course focused on science curriculum and instruction for preservice secondary teachers with teaching majors in any of the science areas.

##### SCED 4400 – Teaching Science II

A methods course focused on science curriculum and instruction for preservice secondary teachers with teaching majors in any of the science areas.

##### SCED 4300 – Secondary Education Clinical Experience II

The second clinical practicum (40 hours minimum) in middle and secondary schools, arranged by special methods instructors in department.

##### SCI 4300 – Science in Society

Investigation of interactions between current scientific topics and societal goals and concerns. Intended as a capstone course for science teaching majors.

**New York Institute of Technology, Old Westbury, New York (2004-2005)**  
**College of Education and Human Development**

*Courses Taught – New York Institute of Technology*

EDMA 625 – Mathematics Science and Technology I

A graduate course for instructional technologists focused on integrating technology into mathematics instruction.

EDSC 626 – Mathematics Science and Technology II

A graduate course for instructional technologists focused on integrating technology into science instruction.

EDUC 370 – Strategies Utilizing Instructional Technology in Science

An undergraduate elementary education science teaching methods course.

**The University of Iowa, Iowa City, Iowa (1992-2004)**  
**College of Education**

*Courses Taught – The University of Iowa*

97:106 - Societal and Educational Applications of Chemical Concepts

An undergraduate and graduate level applications course focused on teaching chemistry.

**Kirkwood Community College, Cedar Rapids, Iowa (1999-2004)**  
**College of Science**

*Courses Taught – Kirkwood Community College*

CHM:110 – Introduction to Chemistry

Introduces chemistry to those with little or no previous background in chemistry and is preparatory for further coursework in chemistry such as General Chemistry I and Bio-Organic Chemistry.

CHM:111 – Introduction to Chemistry Laboratory

A course that introduces chemistry laboratory exercises to those with little or no previous background in chemistry and is preparatory for further coursework in chemistry.

EP:121T – The Environment: Natural Science Perspective

Examines environmental issues from a scientific perspective. Topics examined include ecosystems, energy, global warming, ozone depletion, air pollution, water resources, population growth and biodiversity.

**Teaching Workshops Completed/Professional Development**

Peter Seldin Teacher Portfolio Workshop (2011, May). This workshop was by invitation only and sponsored by the USU Provost's Office.

[http://www.teal.usu.edu/files/uploads/facultystaffinfo/Campbell\\_Teaching\\_Portfolio.pdf](http://www.teal.usu.edu/files/uploads/facultystaffinfo/Campbell_Teaching_Portfolio.pdf)

## RESEARCH SUPERVISION

### Chair – PhD Students/Program Committees Complete

Nancy Hauck (PhD, 2012). *Effects of Sustained Teacher Professional Development on the Classroom Science Instruction of Elementary School Teachers*. Utah State University (Doctoral Dissertation, Utah State University, 2012).

### Committee Member – PhD Graduates/Dissertation Complete

Lee Mason (PhD, 2011). *A functional assessment of the use of virtual simulations to train distance special education preservice teachers to conduct individualized education program team meetings*. Utah State University (Doctoral Dissertation, Utah State University, 2011).

Richard Nye (PhD, 2011). *Comprehensive high school reform: The lived experience of teachers and the small learning community initiative*. (Doctoral Dissertation, Utah State University, 2011).

Leah Welte (PhD, 2010). *Orchestrating classrooms: A collaborative inquiry study of novice teacher community building*. (Doctoral Dissertation, Utah State University, 2010).

Greg Wheeler (PhD, 2010). *Assessment of College Students' Understanding of the Equal Relations: A Development and Validation of an Instrument*. (Doctoral Dissertation, Utah State University, 2010).

Pam Miller (PhD, 2008). *What We Do Best: Quality Collections Care Practices in Small Museums in Utah*. (Doctoral Dissertation, Utah State University, 2008).

### Member – PhD Students/Program Committees

Max Longhurst (assumed chair position Fall 2011). Utah State University. Emphasis: Science Education.

Jennelyn Talbot (assumed chair position Fall 2010). Utah State University. Emphasis: Teacher Education and Decision making.

Emma Smith (enrolled Spring 2009); Utah State University. (Full Time Assistantship funded with Grant). Emphasis: Science Education.

Jeffrey Olsen (joined committee 2011); Utah State University Emphasis: Instructional Technology and the Learning Sciences.

### Committee Member – M.Ed Graduates/Project-Thesis Complete

Kim Rathke (M.Ed., 2010). Tracking Student Writing using Online Essay Assessment. (Masters Project, Utah State University, 2010).

## SERVICE

### INTERNATIONAL LEADERSHIP

Poster Session Chair (2012)	Poster Session titled, "Exploring Science Education" at the 2012 AERA Annual Meeting in Vancouver, British Columbia, Canada, April 13-17, 2012
Proceedings Reviewer (2010)	International Organization for Science and Technology Education 2010 Symposium. XIV. IOSTE Symposium Bled, Slovenia, June 13-18. 2010
Editorial Review Board Member. (2009-present)	International Journal of Environmental and Science Education
Board Member (2008-2009)	International Association for Science Technology and Society (IASTS)
Newsletter Editor (2008-present)	Association for Science Teacher Education (ASTE)

Professional Development Committee member. (2008-present)	Association for Science Teacher Education (ASTE)
Publications Committee member. (2008-present)	Association for Science Teacher Education (ASTE)
Editorial Review Board Member. (2007-present)	International Journal of Science Education
Editorial Review Board Member. (2005-2008)	Science Education Review

### **NATIONAL LEADERSHIP & SERVICE**

Reviewer (2011)	Next Generation Science Standards (Achieve)
Review Panel Member (May 2011)	National Science Foundation (NSF)
Review Panel Member (Jan 2011)	National Science Foundation (NSF)
Reviewer	Utah State Office of Education invited review committee member for review of the National Academies of Science Common Core with regional representatives from Nevada, New Mexico, Arizona, California, and Hawaii in Las Vegas, NV. July 23, 2010.
Review Panel Member (Aug 2009)	National Science Foundation (NSF)
Guest-editor (April/May 2007)	NSTA journal <i>The Science Teacher</i> for the Community Collaborators edition with Field Editor Stephen Metz
Publication Review Panel (2006-present)	<i>The Science Teacher</i>
Editorial Review Board Member. (2005-2008)	<i>Networks: An Online Journal for Teacher Research</i>

### **STATE SERVICE – LEADERSHIP ACTIVITIES**

Advisory Council Member	Advisory Council of the MA Department of Higher Education Southeast/Cape & Islands Regional PreK-16 STEM Pipeline Network (also known as the Southeast MA STEM Network).
Writing Committee Member (2010)	Writing Committee Member for Utah State Office of Education Earth Science Core. This committee was charged with rewriting the Utah Earth Science state core.
Committee Member	Utah State Office of Education State Science Safety Committee Member
Steering Committee (2009)	Utah State Office of Education Science Steering Committee charged with providing ongoing leadership to science education in Utah.



Writing Committee Chair (2009)	Chair of 1 <sup>st</sup> Grade Writing Committee for Utah State Office of Education Science K-2 Core. This committee was charged with writing Utah 1 <sup>st</sup> grade science core.
Steering Committee (2009)	Utah State Office of Education Science K-2 Core Steering Committee charged with writing Utah K-2 science core.
Test Item Writer (2007, 2009)	Utah State Office of Education Utah Science Criterion Reference Test (CRT)
Committee Member (2006, 2011)	Utah Presidential Awards in Math and Science Teaching
Committee Participant (2005-present)	Utah State Office of Education State Science Education Coordinator Committee Participant (SSECC)
Committee Participant (2005-2008)	Utah State Office of Education Science Education Research Committee (SERC), sub-committee of SSECC
Advisory Board Member (2001-2004)	State Science and Technology Fair of Iowa

## **PROFESSIONAL SERVICE – INSTITUTIONAL**

### **UTAH STATE UNIVERSITY Institutional Service – University Level**

- Tenure/Promotion Committee Member for Becky Williams, Assistant Professor in Biology in the College of Science (2011-present).
- Post-Tenure Review Committee Member for Greg Podjorski, Associate Professor in Biology in the College of Science (2011-2012).
- Tenure/Promotion Committee Chair for Amy Alexandra Wilson, Assistant Professor in Literacy in the School of Teacher Education and Leadership (2011-present).
- Tenure/Promotion Committee Member for Susie Broughton, Assistant Professor in Literacy in the School of Teacher Education and Leadership (2011-present).
- Tenure/Promotion Committee Member for Nicole Pyle, Assistant Professor in Literacy in the School of Teacher Education and Leadership (2011-present).
- Tenure/Promotion Committee Member for Spencer Clark, Assistant Professor in Social Studies in the School of Teacher Education and Leadership (2011-present).
- Tenure/Promotion Committee Member for Cathy Maahs-Fladung, Assistant Professor in STEM in the School of Teacher Education and Leadership (2011-present).
- Graduate Recruitment Funding (Awarded \$1000 from the Graduate College) to fund the creation of Additional Graduate Recruitment videos for the School of Teacher Education and Leadership website (2010-2011).
- Committee Member for the following searches (2010-2011):
  - Committee charged with hiring a Physiological Ecologist Faculty Member for the Department of Biology at the Uintah Basin campus.
- Invited Panel Member for USU Proposal Writing Institute for panel discussion titled *Collaboration in Proposal Development and Your Research Career* (May 27, 2010).
- Graduate Recruitment Funding (Awarded \$1000 from the Graduate College) to fund the creation of Graduate Recruitment videos for the School of Teacher Education and Leadership website. Collaborating with Martha Whitaker and Deborah Byrnes (2009-2010).

- Promotion Committee Chair for Eric Pakenham, Lecturer in Science Education in the School of Teacher Education and Leadership (2009-present).
- Promotion Committee Member for Thane Sweeten and Jessica Habasahi, Lecturers in the Department of Biology at the Brigham City Campus (2008-present & 2009-present respectively).
- 2008 Regional Campus and Distance Education (RCDEA) Annual Conference Awards Committee Member.
- Memorandum of Understanding (MOU) Committee for the establishment of a partnership with the College of Eastern Utah (Biological and Physical Science Composite Teaching Major) (2007-2009).
- Memorandum of Understanding (MOU) Committee for the establishment of a partnership with the Snow College (Biological Science Composite Teaching Major) (2006-2007).
- Snow College/Utah State University-Ephraim Technology in Mathematics, Science, and Engineering Instruction Conference Founder and Conference Coordinator (2006-2008).
- Snow College NSTA Student Chapter Faculty Advisor (2005-2008).
- Committee Member for the following searches (2007-2008):
  - Committee charged with hiring a Science Education Faculty Member for the Department of Biology.

**NEW YORK INSTITUTE OF TECHNOLOGY**  
**Institutional Service – University Level**

- School of Education and Professional Services Curriculum Committee (2004-2005).

**Institutional Service – College Level**  
**College of Education and Human Services, Utah State University**

- Committee Member for the following searches:
  - Committee charged with hiring a Secondary Literacy Education Faculty member on the main campus (2010-2011).
  - Committee charged with hiring a Secondary Education Social Studies Education Faculty member on the main campus (2010-2011).
  - Committee charged with hiring a School of Teacher Education and Leadership Instructional Leadership Faculty member on the main campus (2008-present).
  - Committee charged with hiring a Secondary Education Social Studies Education Faculty member on the main campus (2008-2009).
  - Chair of committee charged with hiring a Regional Secondary Education English Education Faculty member (2008).
  - Committee charged with hiring five Regional Elementary Education Faculty members (2007-2009).
  - Committee charged with hiring a Regional Secondary Education Social Studies Education Faculty member (2008-2009).

**PROFESSIONAL AFFILIATIONS/LEADERSHIP ROLES**

NATIONAL ASSOCIATION OF RESEARCH IN SCIENCE TEACHING (2009-PRESENT)

ASSOCIATION FOR SCIENCE TEACHER EDUCATION (ASTE) (2007-PRESENT)

- College & University Science Education Conference Strand Coordinator (2010)
- Newsletter Editor (2008-2012).
- Professional Development Committee Member (2008-2010).
- Presenter at International Meeting (2008, 2009, 2010).
- Workshop Reviewer (2009, 2010)

INTERNATIONAL ASSOCIATION FOR SCIENCE, TECHNOLOGY, AND SOCIETY (IASTS) (2006-2009)

- Board Member (2008-2009)
- Presenter at International Meetings (2005, 2006, 2007, 2008).

REGIONAL CAMPUSES AND DISTANCE EDUCATION ASSOCIATION (RCDEA) (2006-2008)

- Awards Committee Member (2008)
- Presenter at Annual Meetings (2006, 2007).
- President Elect (2008)

UTAH SCIENCE TEACHERS ASSOCIATION (USTA) (2005-PRESENT)

- Presenter at Annual Meeting (2006).

NATIONAL SCIENCE TEACHERS ASSOCIATION (NSTA) (2003-PRESENT)

- Guest Editor for *The Science Teacher* (April/May 2007).
- Publication Review Board Member (2006-present).
- Presenter at National Meetings (2005, 2006).
- Presenter at Regional Meeting (2007).