STEPHEN D. ARNOLD

Associate Professor
College of Education, University of Arizona
Department of Teaching, Learning and Sociocultural Studies
PO Box 210069, Tucson AZ 85721-0069
sdarnold@email.arizona.edu

EDUCATION

2005	**University of Idaho**

Ph.D. Education (Instructional Technology Emphasis)

Dissertation: E-mail: Its Contribution to the Student/Instructor Learning and Teaching Relationship at Colleges & Universities

Major Professor: Dr. Marty Yopp

2001   **University of Idaho**

M.Ed. Education, Industrial Technology Education

2000   **University of Alaska - Fairbanks**

B.Ed. Education (K-8 Certified)

PROFESSIONAL EXPERIENCE

❖ **University**

2019-present   Associate Professor of Instructional Technology,
Department of Teaching, Learning, and Sociocultural Studies,
College of Education, University of Arizona

2013-2019   Associate Professor of Instructional Technology,
Teacher Education, Elementary and Early Childhood Education,
University of Arizona – South Campus

2007-2013   Assistant Professor of Instructional Technology,
Teacher Education, Elementary and Early Childhood Education,
University of Arizona – South Campus

2005-2007   Assistant Professor of Instructional Technology,
Instructional Technology Department, College of Education,
Kent State University, Ohio

2001-2004   Graduate Teaching Assistant, Educational Technology,
Industrial Technology Education Department, College of Education
University of Idaho

❖ **Environment Science Education – Seasonal Park Ranger** (Summer)

2019   Bryce Canyon National Park, Interpretation Department,
            National Park Service, Department of the Interior
            Bryce, UT

2018   Glacier National Park, Interpretation Department,
            National Park Service, Department of the Interior
            Saint Mary, MT

2017   Denali National Park & Preserve, Interpretation Department, National Park
            Service, Department of the Interior
            Denali, AK

2016-2015   Yellowstone National Park, Interpretation, Resource Education, & Youth
            Programs Department, National Park Service, Department of the Interior
            Old Faithful, WY

2014   Grand Teton National Park, Interpretation Department,
            National Park Service, Department of the Interior
            Colter Bay, WY

1996   Denali National Park & Preserve, Interpretation Department,
            National Park Service, Department of the Interior
            Denali, AK

1995   Wrangell-St. Elias National Park, Interpretation Department,
            National Park Service, Department of the Interior
            Copper Center, AK

1994   Sitka National Historical Park, Interpretation Department,
            National Park Service, Department of the Interior
            Sitka, AK

❖ **Other Professional Experience**

2004-2005   Instructional Systems Specialist, Soldier Support Institute
            Training Support Division, Department of the Army
            Ft. Jackson, SC

2002-2004   Learning Specialist, Student Support Services (TRIO Program)
            University of Idaho
            Moscow, ID

2001-2002   AmeriCorps Member, Student Support Services (TRIO Program)
            University of Idaho
            Moscow, ID

1985-1986   U.S. Army
            Honorable Discharge
            Ft. Benning, GA

PUBLICATIONS

❖ **Book Chapters**

Arnold, S.D. (2014). Assessing student learning online: Overcoming reliability issues. In D.G. Sampson, D. Ifenthaler, M. Spector, & P. Isaias (eds.) *Digital Systems for Open Access to Formal and Informal Learning*, Springer.

Arnold, S.D., & De Vito, D. (2009). Electronic portfolios in teacher education: Does sequence matter? In A.M. Vilas, A.S. Martin, J.M. Gonzalez, & J.A. Gonzalez (Eds.), *Research, Reflections and Innovations in Integrating ICT in Education: Vol. 1* (pp. 649-653). Badajoz, Spain: Formatex.

❖ **Refereed Journal Articles**

Arnold, S.D., & Moshchenko, M. (2009). Technology input versus input and output: Does it result in learning differences among elementary school students? In C.D. Maddux (Ed.), *Research Highlights in Technology and Teacher Education 2009* (pp. 1-9). Chesapeake, VA: Society for Information Technology & Teacher Education.

Swan, K., Schenker, J., Arnold, S. & Kuo, C-L. (2007). Shaping online discussion: Assessment matters. *E-mentor*, 1 (18), at: http://www.e-mentor.edu.pl/_xml/wydania/18/390.pdf.

❖ **Refereed Conference Proceedings**

Arnold, S. (2019). Flipping the lecture: Students demonstrate learning with the Panopto video capture system. In K. Graziano (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2019 (pp. 1340-1345)*. Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

Arnold, S. (2018). E-Learning in PreK-3: Selecting and designing grade-level appropriate online tutorials. In *Proceedings of E-Learn: World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education (pp. 795-801).* Las Vegas, NV, United States: Association for the Advancement of Computing in Education (AACE). Retrieved February 15, 2019 from https://www.learntechlib.org/primary/p/185033/

Arnold, S. (2017). E-Learning in PreK-3: What happens when Gen X designers create online tutorials for Gen Z learners?. In P. Resta & S. Smith (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1260-1264). Austin, TX, United States: Association for the Advancement of Computing in Education (AACE).

Arnold, S.D. (2016, December). Rethinking e-learning media: What happens when student *Like* meets professor *Me*? In Kommers, P., Issa, T., Issa, T, McKay, E, and Isaias, P. (eds.) *Proceedings of the International Conferences International Technologies & Society 2016 and International Conference of Educational Technologies 2016*. IADIS Press.

Arnold, S.D. (2015, November). The Yellowstone experience: Teaching and learning on a supervolcano. In the *ICERI2015 Proceedings* (ISBN: 978-84-608-2657-6). Seville, Spain: IATED

Arnold, S.D. (2013, July). Flipping the lecture: Students go online with the Panopto video capture system. In the *EDULEARN13 5th International Conference on Education and New Learning Technologies Proceedings* CD (ISBN: 978-84-616-3822-2). Barcelona, Spain.

Arnold, S.D. (2012, October). Assessing student learning online: Overcoming reliability issues. In Sampson, D., Spector, J., Ifenthaler, D., and Isaias, P. (eds.) *Proceedings of the IADIS Cognition and Exploratory Learning in Digital Age*. IADIS Press.

Arnold, S.D. (2012, October). Assessing online learning with digital audio and video. In *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2012 (pp. 473-479)*. Chesapeake, VA: AACE.

Arnold, S.D. (2012, July). Digital audio and video for online assessment. In the *EDULEARN12 4th International Conference on Education and New Learning Technologies Proceedings* CD (ISBN: 978-84-695-3491-5). Barcelona, Spain: IATED.

Arnold, S.D., & Torres, D. (2012). The effects of primary and secondary language literacy in online learning. In Nunes, M. and McPherson, M. (eds.) *Proceedings of the IADIS International Conference E-Learn 2012*. IADIS Press: ISBN: 978-972-8939-71-7, pp. 279-286.

Arnold, S.D., & Torres, D. (2011, July). The effect of literacy and second language in online learning. In the *EDULearn11 International Conference on Education and New Learning Technologies Proceedings* CD (ISBN: 978-84-615-0441-1). Barcelona, Spain: IATED.

Torres, D & Arnold, S.D. (2011, March). Social versus technological needs for effective teaching: The case of non-traditional students. *Proceedings of the Southwest Teaching and Learning Conference* from http://swtlc.files.wordpress.com/2010/04/swtlc-2011-proceedings2.pdf.

Arnold, S.D. (2010). Student E-cooperative: Computer mediated group projects. In the *International Technology, Education, and Development Conference Proceedings* CD (ISBN: 978-84-613-5538-9). Valencia, Spain: INTED.

Arnold, S.D. (2009). Worldwide workarounds: Empowering technophobic and glitch-prone computer users in the web 2.0, free and open source software digital frontier. In the *International Conference of Education, Research, and Innovation 2009 Proceedings* CD (ISBN: 978-84-613-2955-7). Madrid, Spain: ICERI.

Arnold, S. (2008). E-cooperative: Effective development of group presentation projects from a distance. In G. Richards (Ed.), *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2008 (pp. 2467-2472)*. Chesapeake, VA: AACE.

Arnold, S.D. (2008). Student interactive television presentations: Local vs. remote. In *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2008 (pp. 2517-2522)*. Chesapeake, VA: AACE.

❖ *Manuscript Peer Reviews*

Margherita, B., & Schmidt, N., Editors. (2018, December). Use of Teacher Made YouTube Instructional Video Package and Student's Performance in Educational Technology in Faculty of Education, University of Calabar, Calabar. *Issues and Trends in Educational Technology*.

Czerkawski, B., & Schmidt, N., Editors. (2017, August). Towards an Enhanced Mobile Learning Acceptance Model in Higher Education in Africa. *Issues and Trends in Educational Technology*.

Peacock, K., & Saranchuk, N., Managing Editors. (2017, January). E-Learning Modules in the Flipped Classroom. *Canadian Journal of Learning and Technology*.

Peacock, K., & Saranchuk, N., Managing Editors. (2015, January). Teaching Science with the Interactive Whiteboard: An Elementary Teacher's Needs and Feelings of Technology Self-Efficacy. *Canadian Journal of Learning and Technology*.

❖ *Unpublished Manuscripts*

Arnold, S.D. & Torres, D. (2013*). Increasing online test reliability & validity*. Chapter proposal submitted to S. Koc, P. Wachira (Cleveland State University), and Xiongyi Liu (University of Maine – Orono): Information Age Publishing. Unpublished manuscript.

Arnold, S.D. & Torres, D. (2013). *Assessment options in online instruction: Establishing a framework*. Chapter proposal submitted to S. Koc, P. Wachira (Cleveland State University), and Xiongyi Liu (University of Maine – Orono): Information Age Publishing. Unpublished manuscript.

Devito, D., & Arnold, S.D. (2013, July). In a multi-modal world: A quantitative study on comics in the English language arts classroom. Manuscript submitted for publication.

SCHOLARLY PRESENTATIONS

❖ *Refereed Symposia*

Arnold, S.D. (2009, June). *Instructional pathfinders: Blogs & wikis lead the way [to student learning]!* Poster presented at the 2nd annual Sloan-C International Symposium on Emerging Technology Applications for Online Learning in San Francisco, CA.

Arnold, S.D., & De Vito, D. (2009, June). *Cell phone: A Web 2.0 life-line to Gab[cast] about science.* Paper presented at the 2nd annual Sloan-C International Symposium on Emerging Technology Applications for Online Learning in San Francisco, CA.

❖ *Colloquia*

Arnold, S.D. (2011, September). *Electronic miscommunication in the 21st century.* Invited speaker at the Applied Foreign Languages Department, National Taipei College of Business, Taipei, Taiwan.

Arnold, S.D. (2011, September). *ESL in the digital age: A systems approach to teaching.* Invited speaker at the Applied Foreign Languages Department, National Taipei College of Business, Taipei, Taiwan.

Arnold, S.D. (2009, May). *Technology development for the higher-ed foreign languages professional*. Invited speaker at the English as a Foreign Language Department, Universidad Católica del Norte, Antofagasta, Chile.

❖ *Workshops*

Arnold, S.D. (2005). *Test Design Workshop*. Designed and taught a series of 3-day test design workshops for military and department of defense instructors. Soldier Support Institute, Training & Development Institute, Department of the Army, Ft. Jackson, SC

❖ *Refereed Conference Presentations*

Arnold, S.D. (2019, March). *Flipping the lecture: Students demonstrate learning with the Panopto video capture system*. Paper presented at the Society for Information Technology and Teacher Education (SITE) International Conference (March 2019), Las Vegas, NV.

Arnold, S.D. (2018, October). *E-Learning in PreK-3: Selecting and designing grade-level appropriate online tutorials.* Paper presented at the World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education (October, 2018), Las Vegas, NV.

Arnold, S.D. (2017, March). *E-Learning in PreK-3: What happens when Gen X designers create online tutorials for Gen Z learners?* Paper presented at the Society for Information Technology and Teacher Education International Conference (March 2017), Austin, TX.

Arnold, S.D. (2016, December). Rethinking e-learning media: *What happens when student Like meets professor Me?* Paper presented at the International Conference of Educational Technologies 2016*:* Melbourne, Australia.

Arnold, S.D. (2015, November). *The Yellowstone experience: Teaching and learning on a supervolcano*. Paper presented at the ICERI2015: 8th International Conference of Education, Research and Innovation, Seville, Spain.

Arnold, S.D. (2014, November). *Prosocial networking: Facilitating first generation undergraduate student success in the digital age*. Paper accepted for presentation at the ICERI2014: 7th International Conference of Education, Research and Innovation in Seville, Spain.

Arnold, S.D. (2013, July). *Flipping the lecture: Students go online with the Panopto video capture system*. Paper presented at the 5th International Conference on Education and New Learning Technologies, Barcelona, Spain.

Devito, D., & Arnold, S.D. (2013, June). *Media Preference in the 21st Century English Language Arts Classroom*. Paper accepted for presentation at the EdMedia 2013: World Conference on Educational Media and Technology in Victoria, Canada.

Torres, D. & Arnold, S.D. (2013, April). *Technological innovation and measuring effectiveness in learning in a non-traditional setting.* Paper presented at the Southwest Teaching and Learning Conference in San Antonia, TX.

Arnold, S.D. (2012, October). *Assessing online learning with digital audio and video.* Paper presented at the E-Learn World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education: Montreal, Quebec.

Arnold, S.D. (2012, October). *Assessing student learning online: Overcoming reliability issues.* Paper presented at the IADIS International Conference on Cognition and Exploratory Learning in Digital Age 2012 (CELDA 2012) Conference: Madrid, Spain.

Arnold, S.D. (2012, July). *Podcasting: Students' standard-driven dialogue.* Two hands-on workshops presented via Adobe Connect to the Cochise Instructional Technology Conference, *2012*: Sierra Vista, Arizona.

Arnold, S.D. & Torres, D. (2012, July). *The effect of primary and secondary language literacy in online learning.* Paper presented at the International Association for Development of the Information Society e-Learning 2012 international conference in Lisbon, Portugal.

Arnold, S.D. (2012, July). *Digital audio and video for online assessment.* Paper presented at the EDULearn12 4th International Conference on Education and New Learning Technologies in Barcelona, Spain.

Arnold, S.D., & Torres, D. (2011, July). *The effect of literacy and second language in online learning.* Paper presented at the EDULearn11 3rd International Conference on Education and New Learning Technologies in Barcelona, Spain.

Arnold, S.D. (2011, February). *Remember me, your electronic portfolio? Evaluating the progress over time vs. showcase of competencies pre-service teacher portfolio focus.* Scholarly research presented to the College of Education faculty at the Western Oregon University.

Arnold, S.D. (2010, July). *Prosocial networking: Caring and sharing electronically to increase student engagement.* Paper presented at the 2nd Paris International Conference on Education, Economy & Society – 2010, in Paris, France.

Arnold, S.D., & Moshchenko, M. (2010, July). *Computer mediated information transfer: Input versus input and output.* Paper presented at the 2nd Paris International Conference on Education, *Economy* & Society – 2010, in Paris, France.

Arnold, S.D., & Moshchenko, M. (2010, March). *3 technology use modes: Students transcend from passive to active.* Paper presented at the International Technology, Education and Development Conference (INTED 2010) in Valencia, Spain.

Arnold, S.D. (2010, March). *Student E-cooperative: Computer mediated group projects.* Paper presented at the International Technology, Education and Development Conference (INTED 2010) in Valencia, Spain.

Arnold, S.D. (2009, November). *World wide workarounds: Empowering technophobic and glitch-prone computer users in the web 2.0, free and open source software digital frontier.* Paper presented at the International Conference of Education, Research and Innovation (ICERI 2009) in Madrid, Spain.

Arnold, S.D., & De Vito, D. (2009, October). *Electronic portfolios in teacher education: Does sequence matter?* Poster presented at the 15th annual Sloan-C International Conference on Online Learning in Orlando, FL.

Arnold, S.D. (2009, June). *Interactive television: Individual and group presentations from a distance.* Paper presented at the 27th international conference, International Council for Innovation in Higher Education in St. John's, Newfoundland, Canada.

Arnold, S.D., & De Vito, D. (2009, April). *Electronic portfolios in teacher education: Does sequence matter?* Paper presented at the 5th annual international conference on Multimedia, Information, and Communication Technology in Education in Lisbon, Portugal.

Arnold, S.D. (2009, April). *Instructional pathfinders: Using blogs & wikis to guide student learning.* Paper presented at the 5th annual international conference on Multimedia, Information, and Communication Technology in Education in Lisbon, Portugal.

Arnold, S.D., & Moshchenko, M. (2009, March). *Technology input versus input and output: Does it result in learning differences among elementary school students?* Paper presented at the 20th annual Society for Information Technology and Teacher Education International Conference in *Charleston*, SC.

Arnold, S.D. (2008, October). *E-cooperative: Effective development of group presentation projects from a distance.* Paper presented at the October, 2008 E-Learn World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education in Las Vegas, Nevada.

Arnold, S.D. (2008, November). *Prosocial networking: Using e-mail as an accountability tool to increase student engagement.* Poster presented at the 14th annual Sloan-C International Conference on Asynchronous Learning Networks, in Orlando, FL.

Arnold, S.D. (2008, June). *Student interactive television presentations: Local vs. remote.* Paper presented at the 20th annual Ed-Media World Conference on Educational Multimedia, Hypermedia, & Telecommunications conference in Vienna, Austria.

Swan, K., Schenker, J., Arnold, S., & Kuo, C. (2007, June). *Shaping online discussion: Assessment matters.* Paper presented at the 19th annual Ed-Media World Conference on Educational Multimedia, Hypermedia, & Telecommunications conference in Vancouver, Canada.

Swan, K., Schenker, J., Arnold, S., & Kuo, C. (2007, April). *The effects of differing assessment strategies on the quality of online discussions.* Paper presented at the April, 2007 American Educational Research Association (AERA) conference in Chicago, IL.

Swan, K., Schenker, J., Arnold, S., & Kuo, C., (2006, November). *The effects of differing assessment strategies on the quality of online discussions.* Poster presented at the 12th annual Sloan-C International Conference on Asynchronous Learning Networks, in Orlando, FL.

❖ *Environmental Science Presentations – Peer Reviewed*

Arnold, S.D. (2019, May-Aug). *Mark of the Hoodoos*. Illustrated talk presented weekly to Bryce Canyon National Park visitors. National Park Service, Department of Interior, Bryce, UT.

Arnold, S.D. (2019, May-Aug). *Bryce Amphitheater Geology Talk*. Outdoor, audience-interactive talk presented weekly to Bryce Canyon National Park visitors. National Park Service, Department of Interior, Bryce, UT.

Arnold, S.D. (2019, May-Aug). *Bryce Amphitheater Rim Walk*. Outdoor, audience-interactive nature walk and talk presented weekly to Bryce Canyon National Park visitors. National Park Service, Department of Interior, Bryce, UT.

Arnold, S.D. (2019, May-Aug). *Rainbow Grand Staircase Geology Talk*. Outdoor, audience-interactive talk presented weekly to Bryce Canyon National Park visitors. National Park Service, Department of Interior, Bryce, UT.

Gates, J., Case, A., McGlasson, R., **Arnold, S.D**., & Williams, D. (2019, May-Aug). *Telescope Field: Bryce Canyon Night Skies*. Outdoor, night sky tours, talks, and viewing presented weekly to Bryce Canyon National Park visitors. National Park Service, Department of Interior, Bryce, UT.

Arnold, S.D. (2018, May-Aug). *The Grizzly Scene*. Illustrated talk presented weekly to Glacier National Park visitors. National Park Service, Department of Interior, Saint Mary, MT.

Arnold, S.D. (2018, May-Aug). *Native America Speaks*. Moderated weekly talks presented by Piegan Blackfeet (Ampskapi Piikani) to Glacier National Park visitors. National Park Service, Department of Interior, Saint Mary, MT.

Arnold, S.D. (2018, May-Aug). *Goodbye to Glaciers*. Roadside talk presented weekly to Glacier National Park visitors. National Park Service, Department of Interior, Saint Mary, MT.

Arnold, S.D. (2018, May-Aug). *Scope It Out*. Logan Pass talk and guided wildlife viewing presented weekly to Glacier National Park visitors. National Park Service, Department of Interior, Saint Mary, MT.

Arnold, S.D. (2018, Aug). *Swiftcurrent Lake Stroll*. Nature walk and talk presented weekly to Glacier National Park visitors. National Park Service, Department of Interior, Saint Mary, MT.

Arnold, S.D. (2017, May-Aug). *The Bear Essentials of Denali*. Illustrated talk presented weekly to Denali National Park & Preserve visitors. National Park Service, Department of Interior, Denali, AK.

Arnold, S.D. (2017, May-Aug). *Bambi's Deer Cousins of Denali*. Interactive campground talk presented weekly to Denali National Park & Preserve visitors. National Park Service, Department of Interior, Denali, AK.

Arnold, S.D., Raffaeli, J., Dittmar, J., Carpenter, J., Millman, J., & Verble, E. (2017, May-Aug). *Sled Dogs of Denali*. Interactive talk and demonstration presented weekly to Denali National Park & Preserve visitors. National Park Service, Department of Interior, Denali, AK.

Arnold, S.D. (2017, May-Aug). *Trailology & Trail Sense: McKinley Station Nature Hike*. Nature walk and talk presented weekly to Denali National Park & Preserve visitors. National Park Service, Department of Interior, Denali, AK.

Arnold, S.D. (2016, May-Aug). *The Bear Essentials of Yellowstone*. Illustrated talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.

Arnold, S.D. (2016, May-Aug). *Geysers Galore*! Old Faithful interactive geothermal talk and demonstration presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.

Arnold, S.D. (2016, May-Aug). *Lone Star Geyser Adventure Hike.* Nature walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.

Arnold, S.D. (2016, May-Aug). *Experiencing Wildlife.* Outdoor interactive talk and demonstration presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.

Arnold, S.D. (2016, May-Aug). *Yellowstone Kids.* Outdoor interactive talk and activities presented weekly to Yellowstone National Park early childhood-adolescent park visitors. National Park Service, Department of Interior, Old Faithful, WY.

Arnold, S.D. (2016, May-Aug). *Geyser Hill Walk.* Upper geyser basin geothermal walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.

Arnold, S.D. (2016, May-Aug). *Centennial Stroll.* Upper geyser basin historical geothermal walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.

Arnold, S.D. (2016, May-Aug). *Black Sands Geyser Basin Walk.* Geothermal walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.

Arnold, S.D. (2016, May-Aug). *Geyser Discovery Stroll.* Upper geyser basin geothermal walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.

Arnold, S.D. (2015, May-Aug). *The Bear Essentials of Yellowstone*. Illustrated talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.

Arnold, S.D. (2015, May-Aug). *Geysers Galore*! Old Faithful interactive geothermal talk and demonstration presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.

Arnold, S.D. (2015, May-Aug). *Experiencing Wildlife.* Outdoor interactive talk and demonstration presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.

Arnold, S.D. (2015, May-Aug). *Yellowstone Kids.* Outdoor interactive talk and activities presented weekly to Yellowstone National Park early childhood-adolescent park visitors. National Park Service, Department of Interior, Old Faithful, WY.

Arnold, S.D. (2015, May-Aug). *Geyser Hill Walk.* Upper geyser basin geothermal walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.

Arnold, S.D. (2015, May-Aug). *Centennial Stroll.* Upper geyser basin historical geothermal walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.

Arnold, S.D. (2015, May-Aug). *Black Sands Geyser Basin Walk.* Geothermal walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.

Arnold, S.D. (2015, May-Aug). *Geyser Discovery Stroll.* Upper geyser basin geothermal walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.

Arnold, S.D. (2014, May-Aug). *Deer Cousins of Grand Teton.* Illustrated talk presented weekly to Grand Teton National Park visitors. National Park Service, Department of Interior, Colter Bay, WY.

Arnold, S.D. (2014, May-Aug). *Bambi and His Deer Cousins of Grand Teton.* Illustrated talk presented weekly to Grand Teton National Park visitors. National Park Service, Department of Interior, Colter Bay, WY.

Arnold, S.D. (2014, May-Aug). *Celebrating Wilderness: 50th Anniversary of the Wilderness Act.* Illustrated talk presented weekly to Grand Teton National Park visitors. National Park Service, Department of Interior, Colter Bay, WY.

Arnold, S.D. (2014, May-Aug). *Teton Highlights.* Illustrated talk presented weekly to Grand Teton National Park visitors. National Park Service, Department of Interior, Colter Bay, WY.

Arnold, S.D. (2014, May-Aug). *Teton Topics.* Illustrated talk presented weekly to Grand Teton National Park visitors. National Park Service, Department of Interior, Colter Bay, WY.

Arnold, S.D. (2014, May-Aug). *Bear Safety.* Interactive talk and demonstration presented weekly to Grand Teton National Park visitors. National Park Service, Department of Interior, Colter Bay, WY.

Arnold, S.D. (2014, May-Aug). *Teton Kids.* Outdoor interactive talk and activities presented weekly to Grand Teton National Park early childhood-adolescent visitors. National Park Service, Department of Interior, Colter Bay, WY.

Arnold, S.D. (2014, May-Aug). *Smelly Bear.* Interactive talk and demonstration presented weekly to Grand Teton National Park visitors. National Park Service, Department of Interior, Colter Bay, WY.

Arnold, S.D. (2014, May-Aug). *Wildlife Watch.* Interactive talk and guided wildlife viewing presented weekly to Grand Teton National Park visitors. National Park Service, Department of Interior, Colter Bay, WY.

UNIVERSITY TEACHING EXPERIENCE

- ❖ **University of Arizona**

ETCV 301: Interpreting & Presenting Digitally (Gen Ed Tier II)
ETCV 310: Integrating Technology into the Curriculum
ETCV 411: Learning Technologies in the Digital Age
TEDV 300: Introduction to Education
TEDV 301: Foundations of Early Childhood Education
TEDV 311: Literacy in Elementary School
TEDV 326: Learning & Development
TEDV 332: Mathematics Instruction & Assessment
TEDV 394A: Field Studies I: Birth-Kindergarten
TEDV 411: Technology for Educators
TEDV 430: Assessment in Education
TEDV 493A: Student Teaching: Birth-Preschool
TEDV 498: Senior Capstone in Education
TEDV 498H: Honors Thesis

- ❖ **Kent State University**

ITEC 19525: Educational Technology

- ❖ **University of Idaho**

ITED 111: Computing Skills

CURRICULUM & INSTRUCTIONAL DESIGN

- ❖ **New Courses Designed**

ETCV 301: Interpreting and Presenting Digitally Gen Ed course (University of Arizona)

TEDV 411: Technology for Educators (University of Arizona)

TEDV 412: Technology in Early Childhood Environments (University of Arizona)

TEDV 430: Assessment in Education (University of Arizona)

TEDV 498H: Honors Thesis (University of Arizona)

TEDV 493E: Internship in Educational Support (University of Arizona)

BAS Early Childhood Education degree, multiple courses designed: TEDV 301: Foundations of ECE, TEDV 325: Assessment in EC, TEDV 473A: Teaching EC Math/Science, TEDV 473B: Teaching EC Social Studies/Language, TEDV 473C: Teaching EC Creative Arts/PE. (University of Arizona)

AZ Department of Education Middle School Endorsement: TEDV 429/529: Early Adolescent Learning & Development, TEDV 428/528: Middle School Curriculum & Instruction. (University of Arizona)

Designed a series of grade-band specific elementary (K-8) student teaching courses: TEDV 493A: Student Teaching: Birth-Preschool, TEDV 493B: Student Teaching: K-3, TEDV 493C: Student Teaching: 4th-8th, TEDV 493E: Internship in Educational Support. (University of Arizona)

Co-developed two Bachelor of Professional Studies cornerstone & capstone courses & submitted to the curriculum committee (regional campuses, Kent State University)

Designed/taught Test Writer's Workshop 24-hour certificate course for the Department of the Army (Ft. Jackson, SC)

❖ **Course Redesign**

Developed/redesigned the Field Studies course series TEDV 394A-C to be grade-band specific (University of Arizona)

Modified & resubmitted 8 Early Childhood Education courses (from Human Services [HUSV] to TEDV 370, 372-374, TEDV 381-383, 386) to be in alignment with the AZ state Department of Education's ECE endorsement/certification (University of Arizona)

Re-conceptualized and designed a block Elementary Methods structure bringing the 5 pre-student teaching courses, coursework, and practicum into alignment with the university credit-hour requirement, and integrated the curriculum - Math/Science: Block 1; Language Arts/Reading/Social Studies: Block 2 (University of Arizona)

Developed/taught an online Introduction to Education (TEDV 300) undergraduate course (University of Arizona)

Developed/taught an online and an interactive television (ITV) TEDV 326: Learning and Development course (University of Arizona)

Redesigned/taught the ETCV 411: Computer Application in the Classroom courses in a combination of face-to-face, hybrid, and online delivery (University of Arizona)

Redesigned/taught the Educational Technology core classes for the Instructional Technology Department (main & regional campuses, Kent State University)

❖ **New Academic Degree Design, Development, Review**

Bachelor of Science Elementary Education Degree (K-8) Non-certification alternative track: Primary designer - Fall 2011 (University of Arizona)

Bachelor of Applied Science (BAS) Early Childhood Education Degree: Primary designer and Curriculum Committee Chair reviewer - Spring 2011 (University of Arizona)

AZ Department of Education Middle School Endorsement: Primary designer and Curriculum Committee Chair reviewer - Spring 2011 (University of Arizona)

Bachelor of Applied Science (BAS) Intelligence Studies: Curriculum Committee Chair reviewer - Fall 2010 (University of Arizona)

Bachelor of Applied Science (BAS) Logistics: Curriculum Committee Chair reviewer - Fall 2010 (University of Arizona)

Educational Technology Graduate Certificate: Curriculum Committee reviewer - Spring 2010 (University of Arizona)

Secondary Education (undergraduate): Curriculum Committee reviewer - Fall 2009 (University of Arizona)

M.Ed. Special Education: Contributing faculty member and Curriculum Committee reviewer - Spring 2009 (University of Arizona)

Bachelor of Professional Studies: Contributing faculty member – Spring 2016. (Kent State University).

SERVICE/OUTREACH

❖ *Departmental Committees/Obligations*

2018-2007	Faculty advisor of Elementary/ECE undergraduate students
2018-2012	Elementary/ECE Search Committee Member
2016	Grade Appeal Committee Chair
2016-2014	Human Services Search Committee Member
2015	Grade Appeal Committee Member
2012-2010	Elementary/ECE Program Director
2010	Commerce Department Search Committee Chair
2010	Graduate Capstone Committee Member
2008	Elementary/ECE Search Committee Member

❖ *University Committees*

2018-2012	Promotion & Tenure 6-Year Review Committee Member
2016-2013	Curriculum Committee Member
2015	Promotion & Tenure Mid-Year Review Committee Member
2011-2010	Curriculum Committee Chair
2010-2009	Personnel Committee Member
2010-2007	Curriculum Committee Member
2010-2007	Student Scholarship Selection Committee Member
2009-2008	Technology Committee Member
2009	UA South Faculty Transformation Committee Member

❖ *National/International*

2019   National Park Service accessibility ***video design and collaboration***, Zion and Bryce Canyon National Parks, UT

2018   E-Learn Conference ***invited academic session chair***, Las Vegas, NV. Presentations: Effects of robotics technology professional development on middle level science & math teaching performance & student achievement (Windslow et al., Coastal Carolina University).

2017   Society for Information & Technology Education (SITE) conference ***invited academic session chair***, Austin, TX. Presentations: Two sessions with five presentations that included Maker and various other digital technologies.

2016   International Conference of Educational Technologies ***invited session chair***, Melbourne, Australia. Presentations: Curricular Evolution/Alternative Assessment Methods.

2012   Cognition and Exploratory Learning in a Digital Age (CELDA) conference, International Association for Development of the Information Society (IADIS), ***invited academic session chair***, Madrid, Spain. Presentation: Technology, Learning, and Expertise.

2012   E-Learn World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education ***invited session chair***, Montreal, Quebec. Sessions: Content Development, Instructional Design, Evaluation, Implementation Examples & Issues.

2012   International Association for Development of the Information Society e-Learning 2012 international conference ***invited session moderator***, Lisbon, Portugal. Topics: Distance & Workplace Learning.

2011   Applied Foreign Languages Department, National Taipei College of Business ***invited speaker***, Taipei, Taiwan. Presentation topics: Miscommunication in the 21st century, ESL in the digital age: A systems approach to teaching.

2009   Universidad Catolica Del Norte, Erika Mery grant funded ***invited workshop presenter and lecturer***, Antofagasta, Chile. Topic: Web 2.0 and computer-based multimedia technologies.

2009   The V International Conference on Multimedia and ICT in Education (m-ICTE-2009) ***invited session chair***, Universidade Nova de Lisboa, Lisbon, Portugal. Session: Development and Application of Web 2.0 Technologies for Educational Purposes.

GRANTS AND CONTRACTS

Arnold, S.D. (Primary Investigator). University, School, Youth - STEM Teaching & Learning Collaboration. National Science Foundation Research Grant proposal – CFDA 84.305A, focused on K-3rd grade STEM competency development via after-school digital technologies lab and university/PreK-12 partnership. $1,700,000, Unfunded.

Arnold, S.D. (Primary Investigator). *Early Computer-Assisted Tutoring with Scaffolding.* U.S. Department of Education, Institute of Educational Sciences Research Grant proposal – CFDA 84.305A. Submitted September 19, 2012 to Grants.gov via UA Sponsored Projects Services, $3,463,814. Unfunded.

Arnold, S.D. (Primary Investigator). Bachelor of Applied Science: Early Childhood Education. UA Office of Institutional Assessment, Online Education Project. Instructional design of six online courses per the Quality Matters Initiative approved for the 2012-2013 academic year. $30,000.

HONORS/AWARDS

Yellowstone National Park (2016, Sep). Received the Special Thanks for Achievement (STAR) Award.