

Shannon K. Arnold

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EDUCATION

University of Florida – Gainesville, FL

Doctorate of Philosophy: Agricultural Education and Communication

Emphasis: Extension Education

Awarded University of Florida Graduate Alumni Fellowship

Graduation: August 2007

Dissertation: “Career Decisions of Florida Agricultural Extension Agents”

Texas A&M University – Commerce, TX

Master of Science: Agricultural Sciences

Received Secondary Agricultural Education Teacher Certification

Awarded Farm Credit Banks of Texas Graduate Scholarship

Graduation: December 2003

Texas A&M University – College Station, TX

Bachelor of Science: Animal Science

Graduation: May 1997

Graduated Cum Laude

PROFESSIONAL EXPERIENCE

Montana State University- Bozeman, MT

2008- Present

Division of Agricultural Education

Assistant Professor

Philosophy and Programs in Extension Education

- Designed for students interested in pursuing a career in the Cooperative Extension Service or other non-formal education settings.
- Created unique experiential activities for students to apply information and prepare for careers.
- Course topics included extension history, philosophy, program areas, teaching methods, non-formal learning, leadership principles, instilling change through education, and basic extension program development.

Nonformal Teaching Methods

- Senior level course for student in Agricultural Education, Relations option
- Course designed for students who will be designing, implementing, and evaluating learning in Extension or related careers. The course covers theories, principles, and practices associated with effective teaching and learning for adult education, as well as non-traditional adult educational settings, including 4-H meetings, conferences, and conventions

Communicating Agriculture to the Public

- Upper level undergraduate agricultural communications course
- Provides an overview of communications strategies associated with the agricultural and natural resources industries. The focus is on developing competencies required to work as or with a professional communicator. Different types of communication skills emphasized include written, oral, digital media, and research.

MSU College of Agriculture Ambassador Program

- Advisor for undergraduate ambassadors who support food, agriculture and natural resources throughout the state, and promote the College of Agriculture to the public and future students
- Their objective is to create awareness of the academic programs and career opportunities in food, agriculture and natural resources among students, teachers, advisors and the general public in the state of Montana. They meet this objective by speaking to high schools, community colleges, agricultural organizations and the public within the state and at national events.

Montana State FFA Livestock and Agricultural Sales CDE Contest Coordinator

- Advisor and coordinator for annual State Livestock and Ag Sales Career Development Event at Montana State FFA Convention.
- Assist the Livestock and Ag Sales committee in all aspects of planning, designing, managing, and organizing the contest.
- Supervise the contest and advise students in the Agriculture Youth Event Management course.

MSU Online Master's of Agricultural Education Program Developer and Coordinator

- Developer and Coordinator for the Online Master's in Ag Education online degree program
- Began in Fall 2009
- The program serves agricultural professionals in and beyond Montana, and offers graduate level courses that allow completion of a Master's of Science degree in Agricultural Education in approximately 2 years.

Extension Program Development and Evaluation

- Instructor for asynchronous online graduate course.
- Distance education class focused on planning, design and implementation, and evaluation of agricultural and extension education programs.
- Use Desire2Learn as primary course delivery method.
- Also offered through the AGIDEA consortium

Critical Thinking for the Food and Fiber System

- Taught in Spring 2008 and 2009
- Senior capstone project-based course
- Course focused on team development of a comprehensive plan to solve a Montana agricultural problem. Solutions to the problem requires application of prior knowledge, communication skills, critical thinking, analysis, synthesis, evaluation, and interaction between faculty, the community, agricultural stakeholders, and team members.

MSU Extension Internship Program Coordinator

2008- Current

- Developed the 26 page manual used by all extension interns and cooperators
- Serves as the advisor for student interns and agents in extension offices
- Assist students in development of a comprehensive plan for an educational internship program

MSU Extension Park County

Summer 2012

- Substitute extension agent for Summer 2012
- Planned and implemented 4H Summer Camp and training
- Developed programs for Senior Center
- Organized the Local Foods Fair
- Organized the Park County Fair
- Attended regular extension meetings

MSU Graduate and Undergraduate Advising

- Graduate Committee Chair:
 - Michelle Passmore, 2008-2010. *Aligning Extension Education Curriculum at Land Grant Universities with Professional Competencies: A Delphi Study.*
 - Sarah Hamlen, 2009-2012- *Assessment of Small Business Owners Educational Needs in Montana*
 - Mandie Reed- 2009-2012- *An Evaluation of concerns of Extension field faculty in Western states regarding renewable energy education as it pertains to programmatic design and implementation.*
 - Hannah Gamble- 2011- Current
 - Nikki Bailey- 2011- Current
 - Tim Fine- 2010- Current
- Graduate Committee Member
 - Eric Larsen, 2009-2010
 - Katie Udem-Hebel, 2010- Current
 - Jolynn Miller, 2009-2011
 - Josette Hackett- 2011- Current
 - Alex Hill- 2010- Current
- Undergraduate Students- Average 20 students in Fall/Spring, 5-13 interns in Summer

University of Florida – Gainesville, FL

2004-2007

Department of Agricultural Education and Communication

Lead Instructor for Undergraduate Courses

Research and Business Writing for Agricultural and Natural Resources

- Taught two classes of 100 students each.
- Course focused on practical application of writing for scientific and business applications.
- Developed lectures, course pack, and incorporated relevant examples using multiple teaching methods.
- Managed six teaching assistants to grade assignments and support students.
- Used WebCT to track grades, post assignments, and communicate with students.

Extension Administration and Supervision

- Graduate online course administered through E-learning system.
- Assisted with development and delivery of course for 13 online students.
- Course focused on understanding management skills, principles, theories, and styles for extension administrators.

Program Development and Evaluation

- Taught 20 students from diverse program areas.
- Course focused on developing human and community education programs from theory to practice.

- Developed lectures and course pack of applied materials.
- Created experiential activities for students to apply knowledge in planning, designing, implementing, evaluating, and accounting for educational programs of targeted audiences

Development and Role of Extension Education

- Co-instructor
- Designed for students interested in pursuing a career in the Cooperative Extension Service or other non-formal education settings.
- Course topics included extension history, philosophy, program areas, teaching methods, non-formal learning, leadership principles, instilling change through education, and basic extension program development.

Effective Oral Communications

- Taught 250 students from various majors.
- Managed three lab teaching assistants.
- Course presented strategies and techniques for effective presentations in agricultural and natural resources professions.
- Emphasis was placed on oral and visual techniques for formal and informal situations.
- Added new topics including leadership, critical and creative thinking, conflict resolution, interviewing, negotiation, and group communication.

Teaching Assistant at University of Florida

- Extension Administration and Supervision 2005, 2007
 - Online graduate course
- Research Methods and Strategies in Agricultural Education 2006
 - Graduate course
- Adult and Agricultural Extension Education 2006
 - Online graduate course
- Research and Business Writing in Agricultural and Life Sciences 2005-2006
 - Undergraduate course
- Effective Oral Communications 2004
 - Undergraduate course

Florida Farm Bureau

2006-2007

Curriculum Designer and Assistant Program Coordinator

- Leadership development educational programming for rural community leaders- “Strengthening the Voice”
- Created curriculum entitled “Recruitment, Involvement, and Leadership Development of Member Leaders”
- Designed curriculum for workshops, produced support materials, and provided instructional resources for local leaders, chairs, staff, and committee members
- Provided training for Farm Bureau field staff

Texas A&M University – Commerce, Texas

2004

Agricultural Education Adjunct Instructor

- Practicum in Teaching in Agricultural and Family Consumer Sciences
- Farm and Ranch Safety and Management

Navarro College – Corsicana, Texas 2003-2004

Adult Basic Education Instructor

- Coordinator and lead instructor for adult and youth GED programs

Maypearl/Desoto Texas Independent School Districts 2001-2004

Secondary Agricultural Education Teacher

- Courses taught: Agricultural Science 101/102, Equine Science, Animal Science, Floral and Landscape Design, Agricultural Careers, Personal Leadership Skills, Wildlife Management, and Food Science
- Additional Responsibilities: FFA Advisor; supervised all animal projects including cattle, hogs, lambs, goats, chickens, and rabbits; attended all major stock shows with animal exhibits; trained Career and Leadership Development Event teams; and managed school barn

Genex, Inc. – Southwest U.S. 1999-2001

Cattle Genetics and Artificial Insemination Cooperative

Regional Sales Coordinator for Marketing Division

- Assisted in sales and service activities in the Southwest region
- Conducted on-farm and group artificial insemination training schools
- Managed the genetic evaluation of dairy and beef herd programs
- Led promotion, sales, member, and public relations activities

United States Department of Agriculture- Madison, Wisconsin 1997-1999

Agricultural Marketing Service

Dairy Market News Reporter

- Communicated daily with agricultural industry contacts
- Monitored market conditions, prices, and statistics
- Collected, analyzed, and reported marketing information
- Disseminated weekly industry report

PROFESSIONAL ACTIVITIES

LEADERSHIP POSITIONS

- AG IDEA Core Content Chair for Program Development and Evaluation (2011)
- AG IDEA Representative for MSU (2010-present)
- Chair for the Western Region AAAP Professional Development Committee (2011)
- Vice Chair for the Professional Development Committee of the American Association of Agricultural Education (2011)
- Secretary (replacement) for Western Region Agricultural Education Regional Conference (2011)
- MSU College of Agriculture Ag Days Program Coordinator- 2010.
- Invited Theme Editor for the Agricultural Education Magazine. Leadership Skills for All Agricultural Education Students. August/September 2010 issue.
- Host of 2010 Western Region Agricultural Education Regional Conference
- Research Conference Chair of 2010 Western Region Agricultural Education Regional Conference
- Vice Chair for the Professional Development Committee of the American Association of Agricultural Education (2010)
- Secretary for the Professional Development Committee of the American Association of Agricultural Education (2009)

- Advisory Council Representative for the Professional Development Special Interest Group for the Western Region Association of Agricultural Education (2008-present)
- Advisory Council Member for Extension Education: Domestic and Global Settings Special Interest Group for the American Association of Agricultural Education (2008-present). Instituted Extension Pre-Conference Session at National AAAE Conference
- Committee Chair for Montana FFA State Ag Sales CDE (2009- present)
- Committee Chair for Montana FFA State Livestock CDE (2008-present)
- Research Paper Session Chair (2007): Association for International Agricultural and Extension Education Conference
- Assistant Program Leader (2006-2007): Florida Farm Bureau “Strengthening the Voice” Leadership Development Series
- Assistant Program Leader (2005-2007): Florida Cooperative Extension New Agent Orientation
- Advisory Council (2005-2007): Columbia County Agricultural Extension Advisory Committee
- Vice President (2006-2007): Alpha Tau Alpha, University of Florida chapter
- Treasurer (2005- 2007): University of Florida Agricultural Education and Communication Graduate Student Association
- President and Secretary (2005- 2006): North Central Florida Texas A&M Alumni Association
- Research Conference Planning Committee Team (2005-2006): Association of International Agricultural and Extension Education Conference
- Advisory Council Representative (2004- 2006): University of Florida Department of Agricultural Education and Communications Advisory Committee
- Research Paper Session Chair (2005): National Agricultural Education Research Conference
- Graduate Advisor (2004- 2005): University of Florida Collegiate FFA Organization

PROFESSIONAL SERVICE

- Research Poster Judge (2012): Western Region Agricultural Education Conference
- College of Agriculture Scholarship Committee (2012)
- Research Paper Chair (2012): Western Region Agricultural Education Conference
- Research Poster Reviewer (2012): Western Region Agricultural Education Conference
- Research Paper Reviewer (2012): National Association of Agricultural Education Conference
- MSU College of Agriculture Scholarship Committee (2012)
- Conversations with Professors : MSU First Year Initiative (2011)
- MSU Ag Appreciation Weekend Committee (2011)
- Faculty Mentoring Program Co-Coordinator for National Association of Agricultural Education Conference (2011-2012)
- Administrative Assistant in Agricultural Education Search Committee- (2011)
- Graduate Student Conference Co-Coordinator at Western Region Agricultural Education Conference (2010-2011)
- Research Paper Reviewer (2011): National Association of Agricultural Education Conference
- Research Paper Reviewer (2011): Western Region Agricultural Education Conference
- Research Paper and Poster Reviewer (2010): Southern Region Agricultural Education Conference
- Research Paper Reviewer (2010): Association of International Agriculture and Extension Education Conference
- College of Agriculture Assistant Dean Search Committee (2010)
- MSU Sustainable Foods and Bioenergy Systems Committee (2010- 2011)
- MSU Undergraduate Studies Committee (2009-present)
- MSU Online Advisory Committee (2009- present)

- Administrative Assistant in Agricultural Education Search Committee- (2009)
- Promotion and Tenure Committee- Carl Igo (2009)
- Montana Agricultural Experiment Station Advisory Committee (2008-2009)- MSU Division of Agricultural Education Representative
- Journal Reviewer for the *Journal of Agricultural Education* (2009- present)
- Research Paper Reviewer (2010): Western Region Agricultural Education Conference
- Research Poster Judge (2010): National Association of Agricultural Education Conference
- Research Paper Reviewer (2010): National Association of Agricultural Education Conference
- Research Poster Reviewer (2010): National Association of Agricultural Education Conference
- Research Paper Reviewer (2009): Southern Region Agricultural Education Conference
- Research Poster Reviewer (2009): North Central AAAE Region Conference
- Official Judge (2008) and (2009): American Farm Bureau Federation: MSU Collegiate Young Farmers and Ranchers Discussion Meet
- Research Poster Reviewer (2009): Southern Region Agricultural Education Conference
- Official Judge (2008): Montana Ag Days, Ag Sales and Service, in Bozeman, MT
- Research Poster Presentation Judge (2009): Western Region Agricultural Education Conference
- Research Paper Presentation Judge (2008): Western Region Agricultural Education Conference
- Research Poster Judge (2008): Western Region Agricultural Education Conference
- Host for International Extension Educator, Dr. Steve Worth, from University of KwaZulu in South Africa (2008)
- Research Poster Judge (2008): Southern Region Agricultural Education Conference
- Research Paper Reviewer (2006): Association of International Agriculture and Extension Education Conference
- Program Assistant (2005 - 2006): Black Stallion Literacy Project
- Official FFA Judge (2005 - 2006): Florida State 4-H Equine Prepared Public Speaking Contest
- Official FFA Judge (2005): Florida State FFA Food Science Contest
- Program Assistant (2005): Florida State FFA Horse Judging Contest
- 4-H Staff Assistant (2005): Florida State 4-H Horse Show
- Official FFA Judge (2005): Florida FFA Middle School Prepared Public Speaking CDE
- Official FFA Judge (2005): Florida FFA Agricultural Communications CDE
- Official Judge (2005): University of Florida Research Methods Poster Session
- National FFA Judge (2004): National FFA Convention AgriScience Fair
- District FFA Judge (2004): Florida State Parliamentary Procedure Contest

PROFESSIONAL RECOGNITION

Outstanding Young Member of the Western Region American Association of Agricultural Association (2011). Awarded by the Western Region AAAE members.

Montana State University Awards for Excellence (2011). Awarded by the MSU Alumni Association and the Bozeman Chamber of Commerce.

2nd place Outstanding Poster Presentation. (2010). *Improving teaching through community service learning*. Poster presented at Western and National American Association of Agricultural Education conferences in Great Falls, MT and Omaha, NE.

North American Colleges and Teachers of Agriculture. (2009). Teaching Award of Merit. Nominated by Montana State University College of Agriculture.

Outstanding Poster Presentation. (2009). *Second Life: A Virtual World for International Extension Programming*. Poster presented at the Association for International Agricultural and Extension Education Conference in Puerto Rico.

Outstanding Research Presentation, Graduate Division. 2Nd Place Paper Presentation. (2009). *Influences on Florida agricultural extension agents' decisions to remain in the extension organization*. Paper presented at the American Association of Agricultural Education- Southern Region conference in Dallas, TX.

GRANT ACTIVITY

FUNDED GRANTS

Arnold, S., Igo, C., Frick, M. (2012). MSU CFAC grant. \$9212. (Educational technology resources)

Meisinger, D., Gates, R., Bass, T., Cortus, E. (2012). Integrated approaches to climate change and variability for the Midwest pork industry. Iowa State University of Science and Technology. US Center for Pork Excellence. USDA/NIFA Coordinated Agricultural Project. **Arnold, S.** (Needs Assessment, evaluation and educational outreach specialist). **\$9,997,782** (in review)

Vogel, M. & Grossenbacher, J. (2010-2012). Montana Agricultural Pollution Prevention. Submitted to EPA Environmental Education Grants. **Arnold, S.** (Needs Assessment, evaluation and educational outreach consultant). \$458,348.

Heemstra, J., Bass, T., & **Arnold, S.** (Needs Assessment, evaluation and educational outreach specialist). (2009- 2012). Enhancing Environmental Planning and Leadership of Beginning Farmers and Ranchers. Beginning Farmer and Rancher Development Program- Cooperative State Research Education and Extension Service. **\$644,408**

Arnold, S. & Frick, M. (2010). Developing Human Resources on Native American Reservations. Higher Education Multicultural Scholars Program. National Institute of Food and Agriculture, Higher Education Multicultural Scholars Program Grant, **\$150,000**

Burrows, M. & **Arnold, S.** (Evaluation and educational outreach specialist). (2009). Assessment of pesticide use and barriers to IPM implementation by landscape professionals in Montana. Pesticide Environmental Stewardship Program Regional Grants. **\$50,000**

Arnold, S. (2009). Leadership and Professional Development in the College of Agriculture. CHS Foundation Grant. **\$1000**

Hamlen, S., Geiger, M., & **Arnold, S.** (Evaluation and educational outreach specialist). (2010). Equipping Extension Educators to Address Producers Needs in Energy Education. Western Regional SARE Professional Development Grant. **\$99,596**

Total Participation in funded grants: \$1,403,352

UNFUNDED GRANTS

Arnold, S, Igo, C., & Frick, M. (2011). Growing graduates. Enhancement of Graduate Education RFP. \$9700. Graduate school did not award any proposals.

Burrows, M., Day, T., & **Arnold, S.** (Evaluation and educational outreach specialist). (2011). Sustainable production of fruits and vegetables in the urban community. Western Sustainable Agriculture, Research and Education Grants. \$200,000.

Burrows, M., **Arnold, S.** (Evaluation and educational outreach specialist), & Skoglund, L. (2011). Development of IPM educational kits through minigrants in the High Plains region. Submitted to Western Regional IPM Competitive Grants Program. \$95,000

Marlow, C., **Arnold, S.** (Evaluation and educational outreach specialist), & Beck, J. (2009). Achieving Public Acceptance of Woody Plant Control as Part of Water Conservation Plans. Submitted to USDA/CSREES: National Integrated Water Quality Grant. **\$325,544.**

Burrows, M., Mangold, J., Fenster, R., Schille, K., **Arnold, S.** (Evaluation and educational outreach specialist), Attowe, H., & Picard, D. (2009). Expansion and enhancement of urban IPM in Montana. **\$224,305**

Arnold, S. & Taylor, S. (2009). Using multimedia technologies to improve communication skills. Instructional Innovation Grants Program. **\$2000.**

Arnold, S., Bass, T., Sessoms, H., & Carrithers, S. (2008). Montana State University Extension Agent Water Resources Academy. Western SARE Competitive Grants Professional Development Program. **\$56,850.**

Marlow, C., **Arnold, S.** (Evaluation and educational outreach specialist), Sessoms, H., & Bielinska-Kwapisz, A. (2008). Watershed Function and Socio-economic Responses to Grazing Conservation Practice Implementation. Conservation Effects Assessment Program. Submitted to USDA/CSREES. **\$200,000.**

Arnold, S., Frick, M., & Marlow, C. (2008). Master's International Peace Corps Program Proposal. Submitted to Peace Corps Headquarters in Washington, D.C.

Johnson, S., **Arnold, S.** (Evaluation and educational outreach specialist), & Carter, H. (2008). Managing Risk by Managing Production Costs and Understanding Risk of Potato Producers. Submitted to Northeast Center for Risk Management Education, Project Number RME-D0M02491. **\$34,000.**

Total Participation in Unfunded Grants: \$1,237,295

PRESENTATIONS

REFERRED PAPERS

Larsen, E., Igo, C., **Arnold, S.**, & Stone, C. (2011). *Youth-adult partnerships: Examining the perceptions of youth and adult 4-H foundation board members.* Presented at the Western Region American Association of Agricultural Education conference, Fresno, CA.

Passmore, M., **Arnold, S.**, & Igo, C. (2011). *Aligning extension education curriculum at land grant universities with professional competencies: A delphi study.* Presented at the Western Region and National American Association of Agricultural Education conference, Fresno, CA and Coeur D'Alene.

Arnold, S. (2011). *An exploration of college of agriculture ambassador programs*. Presented at the Western Region and National American Association of Agricultural Education conference, Fresno, CA. and Coeur D'Alene, ID.

Arnold, S., & Taylor, S. (2010). *Integrated approach to teach communication skills using educational technologies*. Presented at the National American Association of Agricultural Education. Conference, Omaha, Nebraska. (43% acceptance rate)

Murphrey, T., **Arnold, S.**, Foster, B., & Degenhart, S. (2010). *Verbal immediacy and audio technology use in online course delivery: What do agricultural education students think?* Presented at the Western Region American Association of Agricultural Education conference, Great Falls, MT. (60% acceptance rate).

Arnold, S., Igo, C., & Miller, J. (2010). *Adding value to professional conferences for graduate students*. Presented at the National and Western Region American Association of Agricultural Education conferences. (60% and 43% acceptance rates)

Arnold, S., Lachapelle, P., Hamlen, S., Mosley, T., Kaiser, C., Sarchet, A., & Reed, M. (2009). *What the heck is a program?* Presented at the 2009 MSU Extension Annual Conference, Bozeman.

Arnold, S., & Place, N (2008). *Career Influences on Florida agricultural extension agents' decisions*. Paper presented at the American Association of Agricultural Education National conference. Reno, NV. (55% acceptance rate).

Arnold, S., & Place, N. (2008). *Influences on Florida agricultural extension agents' decisions to remain in the extension organization*. Paper presented at the American Association of Agricultural Education- Southern Region conference. Dallas, TX. (50% acceptance rate).

Arnold, S., & Place, N. (2008). *Influences on Florida agricultural extension agents' decisions to enter into the extension organization*. Paper presented at the Association for International Agricultural and Extension Education Conference. Costa Rica.

Arnold, S. (2007). *Developing volunteer leaders in Florida Farm Bureau*. Paper presented at the Association of Leadership Educators Conference, Fort Worth, TX.

Arnold, S., Meyers, C., & Place, N. (2007). *Leadership styles of international agricultural extension agencies*. Paper presented at the 23rd Annual Association for International Agricultural and Extension Education Conference, Polson, MT.

Arnold, S., Warner, W., & Osborne, E. (2006). *Experiential learning in secondary agricultural education programs and classrooms*. Paper presented at the meeting of Southern Region Agricultural Educators Conference, Orlando, FL.

Warner, W., **Arnold, S.**, & Jones, D, & Myers, B. (2006). *The use and design of laboratory instruction in secondary agriscience classrooms*. Paper presented at the American Association of Agricultural Education- Southern Region conference, Orlando, FL.

REFERRED POSTERS

- Hill, A., Bailey, N., **Arnold, S.**, & Meyers, C. (2012). Extension's online presence: Are land-grant universities promoting the tripartite mission? Presented at the Western Region and National American Association of Agricultural Education conference, Bellingham, WA and Asheville, NC.
- Jones, C., Engel, R., Miller, Moore, Olson-Rutz, & **Arnold, S.** (2011). *Comparison between online and hardcopy responses from a grower survey on urea volatilization*. American Society of Agronomy conference, San Antonio, TX.
- Hill, A., Whitney, S., **Arnold, S.**, & Igo, C. (2011). *A formative evaluation of ag days at Montana State University*. Presented at the Western Region American Association of Agricultural Education conference, Fresno, CA.
- Arnold, S.**, Hebel, K., Heemstra, J., & Bass, T. (2011). *Assessing agricultural producer and educators' needs for environmental management information*. Presented at the Western Region and National American Association of Agricultural Education conference, Fresno, CA. and Coeur D'Alene, ID.
- Miller, J. & **Arnold, S.** (2010). *Improving teaching through community service learning*. Presented at the Western Region American Association of Agricultural Education conference, Great Falls, MT
- Miller, J. & **Arnold, S.** (2010). *Produce your own: A community gardening program*. Presented at the National and Western Region American Association of Agricultural Education conference, Great Falls, MT
- Passmore, M. & **Arnold, S.** (2010). *Improving 4-H and military partnerships through Operation Military Kids*. Presented at the Western Region American Association of Agricultural Education conference, Great Falls, MT
- Udem, K. & **Arnold, S.** (2010). *Integrating teaching with technology*. Presented at the Western Region American Association of Agricultural Education conference, Great Falls, MT
- Arnold, S.** (2009). *An overview of the online master's program in Agricultural Education*. Presented at the MSU Extension Annual Conference, Bozeman, MT.
- Miller, J., Igo, C., **Arnold, S.**, & Frick, M. (2009). *Teaching science and agriculture: A converse approach*. Presented at the Western Agricultural Education Regional Conference, Lake Tahoe, and National Association of Agricultural Educators, Louisville, KY
- Flynn, A. & **Arnold, S.** (2009). *Advancing technology: GPS and GIS outreach training for agricultural producers*. Presented at the Western Agricultural Education Regional Conference, Lake Tahoe and National Association of Agricultural Educators, Louisville, KY
- Resel, E. & **Arnold, S.** (2009). *Electronic Integrated Pest Management Program: An Educational Resource for Extension and Agricultural Producers*. Presented at the Western Agricultural Education Regional Conference, Lake Tahoe, and National Association of Agricultural Educators, Louisville, KY
- Passmore, M. & **Arnold, S.** (2009). *Developing future agricultural leaders through the American Junior Simmental Association*. Presented at the Western Agricultural Education Regional Conference, Lake Tahoe, NV.

Lamm, A., Harder, A., Cecil, C., King, D., **Arnold, S.**, & Lindner, J. (2009). *Second Life: A Virtual World for International Extension Programming*. Poster presented at the Association for International Agricultural and Extension Education Conference, Puerto Rico.

Arnold, S. & Place, N. (2006). *Assessing the effect of cooperative teaching on future agricultural educators and cooperative extension agents*. Presented at the 22nd Annual Association for International Agricultural and Extension Education Conference, Clearwater, FL.

Arnold, S. & Meyers, C., & Place, N. (2006). *Leading global change: A leadership profile of international agricultural extension*. Presented at the Association of Leadership Educators Conference, Big Sky, MT.

Arnold, S. & Kaufman, E. (2006). *Recruitment and development for Farm bureau leaders: A program plan*. Presented at the Association of Leadership Educators Conference, Big Sky, MT.

Arnold, S., Dyer, J., Washburn, S., & Myers, B. (2005). *Application/teacher reflection model*. Presented at the 32nd National Agricultural Education Research Conference, San Antonio, TX.

SEMINARS AND INVITED PRESENTATIONS

MSU Extension Internships. (2011). Presentation at MSU Annual Extension Conference. 10 participants.

Building a Proactive Program (2011). Presentation at MSU Annual Extension Conference. 30 participants.

Conversations with Professors. (2011). First year initiative for MSU. 25 students.

Creating Interactive and Engaging Activities for Adult Learners. (2011). Webinar presented on the Great Plains Diagnostic Network. 20 participants.

MSU Teacher Resource Fair (2010). Provide teaching resources for K-12 teachers. 75 participants.

MSU 101- What is the College of Agriculture? (2010). Advising session presented to university students. 50 participants.

Extension Share: A Collaborative Web-based Programming Database. (2010). Presentation at MSU Annual Extension Conference. 30 participants.

Exploring Program Development Needs in MSU Extension. (2009). Presentation at MSU Annual Extension Conference. 25 participants.

Logic Model Development for Program Planning. (2009). Workshop presented to MSU Extension in Bozeman, MT. 7 participants.

Agriculture and Space Connections. (2008-2010). Summer workshops presented at the Montana Agriculture in the Classroom Conference in Bozeman, MT. 7-9 participants annually.

Effective Adult Education and Programming. (2009). Workshop presented to MSU Extension Nutrition Education Program. 31 participants.

An Overview of Agricultural Education. (2009). Stillwater Range Committee. 20 participants.

Online Agricultural Education Program. (2009). Senior Ag Coffee Alumni Meeting. 10 participants.

Agricultural Education: What is this Major? (2008- 2010). Presentation to the AG101 course. 50- 70 students annually.

Online Master's Program in Agricultural Education. (2008). Roundtable discussion presented at the MSU Extension Annual Conference in Bozeman, MT. 100 participants.

Completing Your Graduate Degree. (2008). Phone conference presentation for University of Florida graduate student course "Research Proposal Development". 10 participants.

Communications in Agriculture. (2008). Workshop presented at the Montana Agricultural Educator's Update Conference in Kalispell, MT. 70 participants.

Membership recruitment, involvement, and development for Florida farm bureau leaders. (2006-2007). Training presented at the Florida Farm Bureau Leadership Development Series, FL. 20 participants.

Florida agricultural agents' educational needs and in-service delivery preferences in equine science. (2006). Presentation at the 2006 Florida Extension Symposium, Gainesville, FL. 20 participants.

Space agriculture in the classroom. (2006). Workshop presented at Florida Association of Agriculture Educators Tech Update, Gainesville, Florida. 25 participants

Artificial insemination of beef cattle. (2006). Workshop presented for Columbia Cattleman's Association and Columbia County Extension, Lake City, Florida. 20 participants.

Public speaking at research conferences. (2005). Workshop presented for University of Florida Graduate Student Symposium in the Department of Wildlife and Natural Resources. 10 participants.

Arnold, S., & Hurst, E. (2005). *Presentation skills.* Florida FFA Convention. Orlando, FL. 35 participants.

Arnold, S., & Rhoades, E. (2005). *Space agriculture in the classroom.* Workshop conducted at the Agriculture in the Classroom Summer Institute, Orlando, FL. 30 participants.

Arnold, S., & Higgins, C. (2005). *Public speaking 101.* Workshop conducted at the Florida 4-H State Congress, Gainesville, FL. 20 participants.

Arnold, S., & Fuhrman, N. (2005). *Space agriculture in the classroom.* Workshop conducted at the Agriculture in the Classroom Summer Institute 2005, Birmingham, AL. 15 participants.

Arnold, S., & Dyer, J. E. (2004). *In-service needs and textbook review for Florida teacher certification exam.* Presented to Florida Teacher Certification Exam Committee. 10 participants.

PUBLICATIONS

REFERRED JOURNAL ARTICLES

Hill, A., Bailey, N., **Arnold, S.**, & Meyers, C. (2012). Extension's online presence: Are land-grant universities promoting the tripartite mission? *Journal of Extension* (in review).

- Arnold, S.** (2012). An exploration of College of Ag ambassador programs. *North American Colleges and Teachers of Agriculture Journal* (in press).
- Arnold, S.,** Bass, T., & Heemstra, J. (2011). Assessing extension educator and beginning producer needs for environmental stewardship education. *Journal of Extension* (in review).
- Murphrey, T., **Arnold, S.,** & Foster, B. (2011). Verbal immediacy and audio technology use in online courses: What do university agricultural education students think?. *Journal of Agricultural Education* (in press).
- Arnold, S.,** Miller, J. & Igo, C. (2011). Adding value to professional conferences for graduate students. *North American Colleges and Teachers of Agriculture Journal*, 55(2).
- Miller, J. & **Arnold, S.** (2011). Produce your own: A community gardening program. *Journal of Extension* (in press).
- Arnold, S.** & Place, N. (2010). Career influences of agricultural extension agents. *Journal of Agricultural Education*, 51(1), doi:10.5032.
- Arnold, S.** & Place, N. (2010). What influences agents to choose a career in extension? *Journal of Extension*, 48(1), doi:1RIB1.
- Arnold, S.** & Place, N. (2010). Influences on Florida agricultural extension agents' decisions to remain in the extension organization. *Journal of Agricultural Education*, 51(2), doi:10.5032.
- Flynn, A. & **Arnold, S.** (2010). Advancing technology: GPS and GIS outreach training for agricultural producers. *Journal of Extension*, 48(3), doi:3IAW5.
- Resel, E. & **Arnold, S.** (2010). Electronic integrated pest management program: An educational resource for extension and agricultural producers. *Journal of Extension*, 48(6), doi:6IAW2.
- Arnold, S.,** Warner, W., & Osborne, E. (2007). Experiential learning in secondary agricultural education programs and classrooms. *Journal of Southern Agricultural Education Research*, 56(1).
- Warner, W., **Arnold, S.,** & Jones, D, & Myers, B. (2007). The use and design of laboratory instruction in secondary agriscience classrooms. *Journal of Southern Agricultural Education Research*,56(1).
- MAGAZINE AND PROFESSIONAL PUBLICATIONS**
- Arnold, S.** (2010). The Leadership Prism. *The Agricultural Education Magazine*, 83(2), 4-5.
- Arnold, S.** & Igo, C. (2009). Meeting Agricultural Education Community Needs Through Experiential Learning. *The Agricultural Education Magazine*, 81(5), 20-22.
- Kaufman, E., Park, T., **Arnold, S.,** Baker, M., Jones, D., & Durham, R. (2005). Preparing presentations- The "Magic Formula" and beyond. *The Arsenal: A complete guide to team performance and improvement and effective workshop development* (pp.97-106). Indianapolis, In: National FFA Organization.

Contributing Articles

Agricultural Education Teaching Unit: Pollution Prevention in Agriculture. (2009).

New Frontiers in Agriculture. (2008). Montana State University AgLink- Fall 2008.

Class acquires practical communication techniques. (2009). AgExcellence 2008- The College of Agriculture and Montana Experiment Station in Review.

CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT

2008- Current

New Faculty Orientation, MSU, August 2008, (participant)

New Extension Agent Orientation, MSU Extension, February 2009, (participant)

Introduction to Photoshop, College of Technology Outreach and Workforce Development, April 2008, (participant)

Introduction to DreamWeaver, College of Technology Outreach and Workforce Development, April 2008, (participant)

Pedagogical Perspectives on Critical Thinking, MSU Teaching and Learning Committee, April 2008, (participant)

Online Teaching and Learning Webinar, Burns Technology Center, April 2008, (participant)

Western Region Agricultural Education Research and Professional Development Conference, Park City, UT, April 2008. (participant and presenter)

Funding and Writing Successful Grants, MSU Foundation Office, May 2008, (participant)

Conflict of Interest Training, MSU Legal Counsel, May 2008, (participant)

American Association for Agricultural Education Conference, Reno, NV, May 2008 (participant and presenter)

Montana Association for Agricultural Education Professional Development In-Service, Kalispell, MT, June 2008 (participant and presenter)

Facilitator Excellence, MSU Extension, June 2008, (participant)

Technology Tacklebox 3 day workshop, June 2008, MSU Extension, (participant)

A Closer Look at Social and Collaborative Computing Tools in Higher Education, MSU Teaching and Learning Committee, September 2008, (participant)

Teaching With D2L and Basics of D2L, Burns Technology Center, November 2008, (participant)

Facebook for Adults, MSU Teaching and Learning Committee, December 2008, (participant)

Action Research in the Classroom, MSU Teaching and Learning Committee, January 2009, (participant)

MSU Principal Investigator Training, MSU Office of Sponsored Programs, (2009), (participant)

Western Region Agricultural Education Research and Professional Development Conference, Lake Tahoe, NV, April 2009 (participant and presenter)

American Association for Agricultural Education Conference, Louisville, KY, May 2009 (participant and presenter)

I-Clicker Workshop, MSU Teaching and Learning Committee, September 2009, (participant)

Constructing an Online Course, MSU Teaching and Learning Committee, September 2009, (participant)

Actively Engaging Students, MSU Teaching and Learning Committee, November 2009, (participant)

International Students in Your Classroom, MSU Teaching and Learning Committee, February 2010, (participant)

Advising Luncheon, MSU Teaching and Learning Committee, March 2010, (participant)

Western Region Agricultural Education Research and Professional Development Conference, Great Falls, MT April 2010 (Host, participant and presenter)

Promotion and Tenure Workshop, MSU, May 2010, (participant)

American Association for Agricultural Education Conference, Omaha, NE, May 2010, (participant and presenter)

MSU Extension Annual Conference (2009-2010). Bozeman, October, (presenter)

Western Region Agricultural Education Research and Professional Development Conference, Fresno, CA, April 2011 (Participant and presenter)

American Association for Agricultural Education Conference, Coeur D'Alene, ID, May 2011, (participant and presenter)

Teaching & Learning Faculty Workshops:

Use of Lecture Capture at MSU: How Camtasia Relay is Being Used in Instruction and Beyond (2011)

Getting started with the iClicker student response system (2011)

The Cadence of Online TEaching and Learning (2011)

AGIDEA Ag Education Summit (2011- Kansas City)

MSU Professional Development Book Group: How Learning Works- 7 Research Based Principles for Smart Teaching (2012)

Online Teaching Best Practices (2012)

Communicating Science: The Murky Middle (2012)