

Wendy Hein
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Education and Employment

Education

<u>Years</u>	<u>University</u>	<u>Degree</u>	<u>Major</u>
1997-2000	University of Kentucky, Lexington, KY	MS	Biology
1993-1997	Harvey Mudd College, Claremont, CA	BS	Biology

Employment Information

<u>Years</u>	<u>Employer</u>	<u>Title and brief description of responsibilities</u>
2010-present	OSU Extension Service	Instructor, 4-H Youth Development, Clackamas County: Provide leadership for the Horse, HEARTH, Youth Leadership, and Awards programs and the county fair management committee. Train and work with volunteer leaders. Provide leadership development experiences to older youth. Assist with special interest programs as needed. Deliver GPS and GIS programming. <i>Program leadership – 20%, Program Development – 30%, Program Management – 35%, Professional Development – 10%, Service – 5%. Scholarly outcomes result from 10% of the duties.</i>
2009-2010	OSU Extension Service	Instructor, 4-H Youth Development, Clackamas County: Provide leadership for the entire club program and camp program. Train and work with volunteer leaders. Provide leadership development experiences to older youth. Assist with special interest programs as needed. Deliver GPS and GIS programming. <i>Program leadership – 20%, Program Development – 30%, Program Management – 35%, Professional Development –</i>

10%, Service – 5%. Scholarly outcomes result from 10% of the duties.

2007-2009	OSU Extension Service	Instructor, 4-H Youth Development, Clackamas County: Provide leadership for the Horse, Livestock, and Awards programs and the county fair management committee. Train and work with volunteer leaders. Provide leadership development experiences to older youth. Assist with special interest programs as needed. Deliver GPS and GIS programming. <i>Teaching and Other Educational Programming – 85%, Scholarship and Creative Activity – 10%, Service – 5%</i>
2003-2007	OSU Extension Service	Instructor, 4-H Youth Development, Clackamas County: Provide leadership for the entire 4-H club program. Train and work with volunteer leaders. Provide leadership development experiences to older youth. Assist with special interest programs as needed. Deliver GPS and GIS programming. <i>Teaching and Other Educational Programming – 95%, Service – 5%</i>
2002-2003	OSU Extension Service	Instructor, 4-H Youth Development, Clackamas County: Provide leadership for the Livestock, Small Animal, Dog, K-3 rd grade, Camp, and Rafting programs. Train and work with volunteer leaders. Provide leadership development experiences to older youth. Lead forestry tours for schools and develop and deliver GPS curriculum. <i>Teaching and Other Educational Programming – 95%, Service – 5%</i>
2001-2002	OSU Extension Service	Instructor, 4-H Youth Development, Clackamas County: Provide leadership for the Livestock, Small Animal, Dog, K-3 rd grade, Camp, and Rafting programs. Train and work with volunteer leaders. Provide leadership development experiences to older youth. <i>Teaching and Other Educational Programming – 95%, Service – 5%</i>

2000	University of Kentucky	Research Assistant: Collect and analyze data for Dr. David Westneat. Trap and band house sparrows, collect physiological data on birds, and transcribe videos of bird behavior.
1997-2000	University of Kentucky	Teaching Assistant: 5 semesters teaching introductory biology lab courses (BIO 151 and 153), responsible for lecturing, grading, and lab experiences. 1 semester teaching recitation for Ecology (BIO 325), complete responsibility for recitation including designing group projects, planning field trips, and preparing students for exams.

Teaching, Advising and Other Assignments

Instructional Summary

Non-Credit Courses/Workshops

Type	Teaching Summary Non-credit Courses/Workshops			
	# Programs (in county)	# Programs (state/national)	Youth Participants	Adult Participants
Project-focused content skills	39	4	1,275	368
Geospatial technology	54	36	1,330	203
Leadership skills for adults and youth	131		359	1,224
Other	19	7	125	348
Total	244	47	3,089	2,143

Project-focused content skills

4-H attracts youth by offering educational programs in a wide variety of subjects. Much faculty time is invested in ensuring that members, leaders, and parents receive excellent instruction, sometimes teaching the workshops themselves. Management of the 4-H program also includes updating volunteers on new developments in the county program and the field of Youth Development.

Hein, W. (2012). Junior Horse Advisory Meetings. 4-H members, Oregon City, OR. 3 different sessions, 3 hours total, 20 participants.

Hein, W. (2011). Leaf Prints. 4-H members, Canby, OR. 2 sessions, 1.5 hours total, 8 participants.

Hein, W., Hein, M., and Willsea, H. (2011). Beginning Cake Decorating. 4-H members, Canby, OR. 4 sessions, 4 hours total, 35 participants.

Hein, W. (2008). Master Showmanship Evaluation Report and Discussion. Clackamas County 4-H Livestock Advisory, Oregon City, OR. 90 minutes, 32 participants.

Hein, W. (2008). Impact of “One-Horse” Rule and Discussion. Clackamas County 4-H Horse Advisory, Oregon City, OR. 30 minutes, 29 participants.

Hein, W. and Hein, M. (2007-2006, 2004). Beginning Cake Decorating. 4-H members, Canby, OR. 10 sessions, 10 hours total, 109 participants.

Hein, W., Cass, L., Buckwalter, J., and Buckwalter, S. (2005). Horse Showmanship. Explorer Post youth and leaders, Eagle Creek, OR. 45 minutes, 7 participants.

Hein, W., Nagele, J., and Holzgraf, R. (2003). Growing Your Camp Program. Western Regional Leaders’ Forum participants, Portland, OR. 1 ½ hours, 30 participants.

Hein, W. and Woods Watch Volunteers. (2002). Woods Watch Tour of the Hopkins Memorial Tree Farm. Youth in grades 1-8, Beavercreek, OR. 6 sessions, 22 hours total, 197 participants.

Hein, W. and Dudley, B. (2002). Rabbit and Cavy Project Guide Revisions. Oregon Leaders’ Forum attendees, Corvallis, OR. 1 hour, 13 participants.

Nagele, J., Hein, W. and Williams, M. (2002). Geology. Campers and counselors in grades 4-12. Colton, OR 2 sessions, 40 minutes total, 45 participants.

Hein, W. (2001-2002). Clackamas County Fair 4-H Livestock Orientation. 4-H leaders, parents, and members, Canby, OR. 9 sessions, 4.5 hours total, 1000 participants.

Hein, W. (2001). Animal Communication. Columbia County 4-H Camp, Vernonia, OR. 3 sessions, 4 total hours, 86 total participants.

Bourdeau, V. and Hein, W. (2001). Fishing for Fun. 4-H Summer Conference youth participants, Corvallis, OR. 2 hours, 32 participants.

Geospatial technology

Geospatial technology, including the Global Positioning System (GPS), Geographical Information Systems (GIS), and other aspects of geography, has become a major new area of youth programming. Not only are youth excited about using the new technology, but geospatial abilities are among the top technology skills sought by today’s employers. Clackamas County is one of the first counties nationwide to offer programs in this area.

Hein, W. (2012). Introduction to GPS and Geocaching. General Public. Canby, OR. 2 sessions, 1.5 hours total, 10 youth and 5 adults.

Hein, W. (2010). GPS skills for fun and forestry. Adult forest owners, youth, & industry members, Oregon City, OR, 4 hours, 35 participants.

NAE4HA Geospatial Task Force (2010). GPS-GIS Pre-Conference. 4-H educators., Phoenix, AZ, 7 hours, 6 participants.

Hein, W. (2009). What are GIS and GPS? General Public. Canby, OR. 2 sessions, 1 hour total, 10 youth and 5 adults.

Hein, W. (2009-2002). Introduction to GPS. Extension staff, teachers, adult volunteers, and youth in K-12. Beavercreek, Canby, Clackamas, Colton, Oregon City, Portland, Salem, Sandy, OR. 41 sessions, 50 hours total, 685 participants.

Hein, W. and Garvin, W. (2008). GPS for Tree Farmers. National Tree Farmer Convention attendees, Forest Grove, OR. 3 sessions, 3 hours total, 45 participants. (invited presentation)

Black, L and Hein, W. (2008). Using GIS in the Classroom. Oregon Council for the Social Studies Spring Conference participants (middle and high school social studies teachers), Bend, OR. 3 hours, 12 participants. (invited presentation)

Hein, W. (2007). Introduction to GPS and GIS in Emergency Preparedness. 9-12 grade students in Teen CERT class, Sandy, OR. 5 hours, 10 participants.

Hein, W. (2007). GIS Mapping Project. 10-12 grade students in Teen CERT II class, Sandy, OR. 6 hours, 5 participants.

Hein, W., Black, J. and Walker, K. (2007). Introduction to GIS. 4-H Summer Conference participants in grades 7-12, Corvallis, OR. 1 ½ hours, 7 participants.

Hein, W. (2007-2003). Introduction to GPS and Geocaching. 4-H Summer Conference participants in grades 7-12, Corvallis, OR. 5 sessions, 15 hours total, 157 participants.

Hein, W. (2006). GPS and creating a Geocache. High school students in a treatment program, Portland, OR, 3 sessions, 9 hours total, 22 participants.

Hein, W. (2006). Introduction to GPS and GIS in Emergency Preparedness. 4-12 grade students, Sandy, OR. 7 hours, 10 participants.

Hein, W. (2006). Introduction to GPS and Geocaching on Mt. Tabor. 4-H teen leadership club members and leaders, Portland, OR. 2 hours, 10 participants.

Hein, W. and Garvin, W. (2005-2003). GPS for Dummies. Adult forest owners & industry members, Oregon City, OR. 5 sessions, 24 hours total, 90 participants.

Hein, W. (2005-2004). GPS/GIS 4-H Afterschool Program. Middle school students, Canby, OR. 32 hours, 8 participants.

Hein, W. and Nagele, J. (2003). Heritage Tree Mapping with Ackerman Middle School – afterschool program. Student leaders in grades 6-8, Canby, OR. 7 ½ hours, 21 participants.

Hein, W. and Nagele, J. (2003). Heritage Tree Mapping with Ackerman Middle School – in-school program. Youth in grades 6-8, Canby, OR. 6 sessions, 9 hours total, 153 participants.

Hein, W. (2003). GPS Training for Extension staff. 4-H and BIT Extension staff and faculty, Oregon City and Beavercreek, OR. 6 hours, 7 participants.

Hein, W. and Woods Watch Volunteers. (2003-2002). Woods Watch Tour and Introduction to GPS at the Hopkins Memorial Tree Farm. Youth in grades 6-12, Beavercreek, OR. 7 sessions, 35 hours total, 194 participants.

Hein, W. and Mitchell, G. (2002). Introduction to GPS. 4-H Summer Conference participants in grades 10-12, Corvallis, OR. 2 sessions, 1 ½ hours total, 40 participants.

Hein, W., Mitchell, G., and Bourdeau, A. (2002). Using GPS technology in Archeology. Teachers in an archeology summer program. 6 hours, 20 participants.

Leadership Skills for Adults and Youth

4-H builds capacity in the community by teaching valuable leadership and life skills to citizens. Adults are trained to be stronger volunteers, learning how to work with youth, taking the lead in planning events, and becoming “middle managers” of other volunteers. Youth learn the skills and confidence they need to not only work alongside adults but also to take the lead and conduct their own programs.

Hein, W. (2012). Leadership Retreat Orientation. 4-H Ambassador Team. Rhododendron, OR. 30 minutes, 19 youth participants.

Hein, W. (2012). Leadership Retreat Mentoring session (The 4-H Organization). 4-H Ambassador Team. Rhododendron, OR. 45 minutes, 14 youth participants.

Hein, W. (2012). New Leader Orientation. New 4-H leaders, Oregon City, OR. 8 sessions, 24 hours total, 3 youth and 74 adult participants.

Hein, W., Hein, M., Meisenhelder, J., Morgan, A., Tilp, J. (2012). 4-H Resume Clinic. Metro-area youth nominated for National 4-H Congress and their parents, Oregon City, OR, 3 hours, 12 youth and 5 adult participants.

Hein, W., Hein, M., Meisenhelder, J., Morgan, A., Tilp, J. (2012). Interview Clinic. State 4-H Ambassador Team and National Congress applicants, Oregon City, OR, 2.5 hours, 5 youth and 3 adult participants.

Hein, W. (2011). Leadership Retreat Orientation and Parliamentary Procedure Activity. 4-H Ambassador Team. Newport, OR. 30 minutes, 11 youth participants.

Hein, W. (2011-2001). New Leader Orientation. New 4-H leaders, Oregon City, OR. 81 sessions, 238 hours total, 873 total participants.

Hein, W. (2011, 2009-2001). 4-H Junior Superintendent Training. Junior Superintendents and Adult Superintendents, Oregon City, OR. 21 sessions, 30 hours total, 275 participants.

Hein, W. (2010, 2007, 2004). Board Member Orientation. New youth and adult members of the Clackamas County 4-H Leaders' Association Board, Oregon City, OR. 3 sessions, 1.5 hours total, 21 participants.

Hein, W. (2010). Parliamentary Procedure Basics. 4-H Ambassador Team. Newport, OR. 30 minutes, 14 participants.

Hein, W. (2010). 4-H Science Experiment Facilitator Training. 4-H Ambassador Team. Newport, OR. 1 hour, 14 participants.

Hein, W. and Williams, J. (2010). Leadership Styles. 4-H Ambassador Team. Newport, OR. 30 minutes, 14 participants.

Hein, W. (2010). Clerk Training: The ShoWorks program. 4-H superintendents and clerks, Oregon City, OR. 20 minutes, 35 participants.

Hein, W. (2009). Giving 4-H Promotional Speeches. 4-H Ambassador Team members, Rhododendron, OR. 1 hour, 6 participants.

Hein, W. (2009). Clerk Training: The New ShoWorks program. 4-H superintendents and clerks, Oregon City, OR. 40 minutes, 31 participants.

Hein, W. (2008). Clerk Training: Instructions and Common Errors. 4-H superintendents and clerks, Oregon City, OR. 20 minutes, 40 participants.

Hein, W. (2004). Older Youth Activities for Clackamas County 4-H Members. 4-H Leadership Club, Portland, OR. 20 minutes, 8 participants.

Hein, W. (2004). Training for Clackamas County 4-H Leaders' Association Board members. 4-H leaders, Oregon City, OR. 2 hours, 10 participants. (for 2005 board)

Hein, W. (2004). Experiential Learning. County Extension staff, Oregon City, OR. 45 minutes, 12 participants.

Hein, W. (2004-2003). Orientation For Transferring Leaders. 4-H leaders, Oregon City, OR. 2 sessions, 3 hours total, 11 participants.

Hein, W. (2003). Superintendent Orientation and Clerk Training. Superintendents and Junior Superintendents, Oregon City, OR. 30 minutes, 35 participants.

Hein, W. (2002). Guidelines for Interacting With Youth. Camp counselors in grades 9-12. Colton, OR. 30 minutes, 12 participants.

Hein, W. (2001). For the Well-being of Youth and Adults. 4-H camp leaders, Oregon City, OR. 20 minutes, 12 participants.

Nagele, J. and Hein, W. (2001). For the Well-being of Youth and Adults. 4-H leaders, Canby, OR. 20 minutes, 200 participants.

Nagele, J. and Hein, W. (2001). New Leader Orientation. New 4-H leaders, Oregon City, OR. 3 sessions, 9 hours total, 17 total participants.

Other

Extension agents are responsible for building a relationship with funders, decisionmakers, and the general public. Some teaching in this section is also peripherally related to the faculty member's experience teaching technology skills.

Hein, W. (2012). Professional Poster Presentations Roundtable. (Selected session at the 4-H and FCH spring staff conference.) Extension faculty and staff, 2 sessions, 1 hour total, 12 participants.

Hein, W. (2012). The 4-H Food and Nutrition Project and Volunteer Opportunities. Master Food Preserver trainees, 20 minutes, 12 participants.

Hein, W. (2012). Overview of the Clackamas County 4-H Youth Development Program. Youth service professionals, monthly Clackamas County Youth Service Provider Network meeting. 10 minutes, 40 participants.

Hein, W. and Hein, M. (2011). Cruise through Record Book judging with less stress, more help, and better results. 4-H volunteers, Western Regional Leaders Forum (Alaskan cruise). 1.5 hours, 26 participants.

Hein, W. (2011). Social Media and Texting Roundtable. (Invited session at the 4-H And FCH spring staff conference.) Extension faculty and staff. 25 minutes, 15 Participants.

Hein, W. (2011). Email Etiquette Roundtable. (Invited session at the 4-H And FCH spring staff conference.) Extension faculty and staff. 25 minutes, 10 Participants.

Hein, W. (2009). Web 2.0 Applications. New Extension faculty. 15 minutes, 34 participants. (Invited presentation as part of *Extension Education in the New Millennium: Program Development, Delivery, and Evaluation*, led by Arnold, M., Bondi, M., and Fletcher, R., 18 hour workshop).

Hein, W. (2008). An Introduction to YouTube. County Extension staff, Oregon City, OR. 45 minutes, 6 participants.

Hein, W. (2008). Overview of the Tufts' Study of Youth Development and Clackamas County Participation. County Extension staff, Oregon City, OR. 45 minutes, 12 participants.

Black, L. and Hein, W. (2007). Teen CERT Final Exercise. 9-12 grade students in Teen CERT class, Sandy, OR. 2 ½ hours, 10 participants.

Hein, W. (2007). Getting Business to Support Clackamas County 4-H. Clackamas County Youth Council, Milwaukie, OR. 20 minutes, 15 participants.

Hein, W. (2007). Getting Business to Support Clackamas County 4-H. 4-H Horse Leaders, Oregon City, OR. 20 minutes, 20 participants.

Hein, W. (2006-2003). 4-H Club Program Report. Clackamas County Extension Advisory Committee, Oregon City, OR. 4 sessions, 1 hour 40 minutes total, 40 participants.

Nagele, J. and Hein, W. (2002-2001). Clackamas County 4-H Program. Clackamas County Extension Advisory Committee, Oregon City, OR, 2 sessions, 40 minutes total, 20 participants.

Nagele, J. and Hein, W. (2001). Clackamas County 4-H Program Review. Review committee, Oregon City, OR, 3 hours, 9 participants.

Hein, W. (2001). Clackamas County Extension and 4-H Programs. FCE groups, Rural Dell, OR, 30 minutes, 65 participants.

Nagele, J. and Hein, W. (2001). Between a Rock and a Hard Place. 4-H Spring Conference participants, Hood River, OR, 5 sessions, 1 hour total, 12 participants.

Student and Participant/Client Evaluations

Year	Evals/Ret	Class Title	Rating
(Rating Scale: 6=Excellent; 1=Very Poor)			
2012	60	New Leader Orientation (7 sessions combined)	5.62
2012	13	An Insider's guide to Access 4-H	5.38

2011	19	Cruising Through Record Book Evaluation...	5.26
2011	37	New Leader Orientation (4 sessions combined)	5.61
2010	7	Instant Evaluation for Good Decision Making	5.43
2010	50	New Leader Orientation (7 sessions combined)	5.72
2010	16	GPS for Fun and Forestry	5.38
2009	8	Junior Superintendent Training (teen participants)	5.25
2009	57	New Leader Orientation (7 sessions combined)	5.68

(Rating Scale: 4=complete; 0=little)

2008	43	New Leader Orientation (4 sessions combined)	3.84
2007	96	New Leader Orientation (9 sessions combined)	3.92

(Rating Scale: 6=High; 0=Low)

2007	18	4-H Teen CERT (at NAE4HA conf.) (co-taught with L. Black)	5.39
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(Rating Scale: 4=complete; 0=little)

2006	80	New Leader Orientation (8 sessions combined)	3.97
2005	80	New Leader Orientation (8 sessions combined)	3.94
2005	37	How to Start a GPS/GIS4-H Program (co-taught with 4 other faculty)	3.63
2004	85	New Leader Orientation (8 sessions combined)	3.94
2004	12	GPS For Dummies	3.13
2003	63	New Leader Orientation (5 sessions combined)	3.87
2003	6	GPS for 4-H Staff	4.00
2003	15	GPS for Dummies	3.53

(Rating Scale: 4=high; 0=low)

2003	30	Growing Your Camp Program (co-taught with J. Nagele)	3.29
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(Rating Scale: 4=excellent; 0=extremely poor)

2002	11	New Leader Orientation	3.91
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(Rating Scale: 4=complete; 0=little)

2002	52	New Leader Orientation (5 sessions combined)	3.98
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(Rating Scale: 5=excellent; 1=poor)

2001	14	New Leader Orientation (2 sessions combined) (co-taught with J. Nagele)	4.56
2001	8	New Leader Orientation	4.75

Curriculum Development

Unheard of in youth development 15 years ago, 4-H geospatial technology programs are now offered in all states and most counties. The demand for curriculum, especially for youth and 4-H activities, is high. These materials were developed to meet a local need but are adaptable and useable in many contexts.

Hein, W. (2005). 4-H Geography Activities. This is a combination of activities and handouts developed for a GPS/GIS Afterschool program: “Planning a Trip”, “You’re the Realtor”, and “Map Features”. Each of the three activities consists of a student handout and an instructor guide, packaged together on a CD with an overview. Thus far, 30 copies have been distributed within the state and 60 distributed at national conferences. Confirmed reports of its use come from Missouri, where “Planning a Trip” has been used with over 400 youth and 300 afterschool practitioners.

Hein, W. (2002). Getting to Know Your GPS Receiver. This set of introductory activities teaches adults or youth how to use a GPS receiver. References included activity suggestions from Mike Clifford, Extension 4-H Agent in Virginia, and the Garmin eTrex Owner’s Manual. The activities have been modified several times to increase clarity and for use in different locations. Versions for both shorter (30 minutes) and longer (45 minutes) activity sessions have been created. **In all, the curriculum has been used by the faculty member in 39 classes.** It was distributed to Oregon 4-H Agents who attended two GPS training classes and was available on the BIT Extension web site for six months. It has also been shared with workshop participants at the 2005 NAE4HA conference. It has been used in Wasco and Polk Counties in Oregon and in Missouri, where it was used by over 400 youth and 300 afterschool practitioners.

Hein, W. (2002). Hopkins Geocaching Guide. Using a GPS receiver to find a hidden object (geocaching) has been very successful in my GPS youth programming. The Hopkins Demonstration Forest in Beavercreek, OR is an excellent site for teaching GPS sessions and setting up geocaches. To streamline set up and delivery of the geocaching session, I developed a curriculum that contains all the clues and group worksheets needed. From pilot testing with two groups in the spring, I received teacher feedback suggesting that the caches tie into forestry education. I revised the curriculum to include forestry questions that can be answered at each cache. Also, I increased the number of caches to accommodate up to 10 groups per visit. The revised geocaching guide has been used for 5 classes.

Educational Materials

Within the scope of Extension education, materials to support teaching and facilitated delivery of programs can take many forms. These include county/area use publications that support educational workshops, teaching materials developed for use with specific training sessions, program management materials which support delivery of facilitated programs and materials that bring the educational message to a broader audience (ie. newsletters, websites, etc.).

Publications for County or Area Distribution

Hein, W. (2012). Youth receive social and emotional benefits from 4-H Horse Program. Article in [The Clackamas County Equine Study Report](#), prepared by Mary Stewart, for the Clackamas County Business and Economic Development Tourism and Cultural Affairs.

Hein, W. (2012). [Showing Etiquette: Getting along with judges](#). 4-H leaders. 160 distributed.

Hein, W. (2011). [Worried about the Horse EHV-1 virus?](#). General public. 797 pageviews at <http://extension.oregonstate.edu/clackamas/announcement/EHV-1> (also published on the state extension website)

Hein, W. (2011-09, 2001). [Showing Etiquette: Getting along with judges](#). 4-H leaders. 680 distributed. *Has been adapted and used by B. Brody in the Malheur County 4-H Handbook.*

Hein, W. (2008). [Clackamas County 4-H Master Showmanship 2005-2008 Evaluation Summary, Part 1 and 2](#). Clackamas County 4-H Livestock Advisory. 40 distributed.

Hein, W. (2008). [Evaluation of one-horse rule](#). Clackamas County 4-H Horse Advisory. 35 distributed.

Hein, W. (2007). [How do we know if our contests are “fair”?](#) Oregon State University, Clackamas County Extension Office, Oregon City, OR. Distributed at 2007 NAE4HA Conference session.

Hein, W. (2004). [Older Youth Activities for Clackamas County 4-H Members](#). 4-H members and leaders. 75 distributed.

Hein, W. (2003). [Raffles](#). Horse Leaders. 40 distributed.

Newsletters

Hein, W. and Williams, J. (writer/editor). (2012). [Clackamas County 4-H Family Newsletter](#). Published 6 times per year, 8-14 p., 1100-1600 (print and email), distributed per issue and available online.

Hein, W. (contributing author). (2012). [Focus on Extension](#). Published 6 times per year, 2 p., 125 (print) and 900-1200 (email) distributed per issue and available online.

Hein, W. (writer). (2012). [Clover Comments](#). E-newsletter published 8 times, 850-1300 (email) distributed per issue and available online.

Hein, W. (writer/editor). (2011-2007). [Clover Comments](#). E-newsletter published 54 times, 850-1286 distributed per issue and available online.

Hein, W. and Nagele, J. (writer/editor). (2011-2001). Clackamas County 4-H Family Newsletter. Published 6 times per year, 8-14 p., 700-1559 (print and email), distributed per issue and available online.

Hein, W. (contributing author). (2011-2001). Focus on Extension. Published 6 times per year, 2 p., 50-1400 (print and email) distributed per issue and available online.

Pease, H. based on Hein, W. (article: Oregon State University 4-H Hall of Fame Honors George and Glendel Campbell). (2011). Extension ConEXTion. Published monthly.

Hein, W. (“From the President’s Desk” column). (2009). News ‘N’ Notes. Published 4 times per year, 6 p., 200 distributed per issue.

Hein, W. (author of “Are You SET for 4-H This Year?” feature article). (2008). The Oregon 4-H Clover. Published annually. 10,000 distributed (8,000 in English, 2,000 in Spanish).

Teaching Materials

Hein, W. (2012). Professional Poster Presentations. Extension Professionals. 15 distributed.

Hein, W. (2012). Junior and Adult Superintendent Partnership Agreement. Adults and youth in grades 9-12. 39 distributed.

Hein, W. (2012-2002). Getting to Know Your GPS Receiver. Adults and Youth in grades K-12. 1326 distributed.

Hein, W. (2008). How the Global Positioning System Works. Tree Farm convention participants. 35 distributed.

Hein, W. (2010-2003). GPS Websites and Information. Adults in GPS classes. 122 distributed.

Hein, W. (2008). Exploring Google Earth. Youth and adults. 12 distributed.

Nagele, J. and Hein, W. (2007). Science Inquiry Definitions Activity. Teachers in science inquiry workshop. 13 distributed.

Hein, W. (2007). Herpetology Judging and ID Contest. Youth in grades K-12. 5 distributed.

Hein, W. (2005). Clackamas County 4-H Club Program. State staff and key volunteers. 12 distributed.

Hein, W. (2004). 4-H Club Program Report. Extension Advisory Council Members. 12 distributed.

Hein, W. (2005-2004). You're The Realtor, Planning a Trip, GPS Quiz, Geocaching, Map Activity, and Getting to Know your GPS Receiver – Canby afterschool program. Youth in grades 6-8. 2 of each distributed.

Hein, W. (2003). Fall 2002 GPS Activities Teaching Outline. Extension staff. 15 distributed.

Hein, W. (2003). GPS Activity Ideas. Extension staff. 15 distributed.

Hein, W. (2003). Advanced GPS Skills. Extension staff. 15 distributed.

Hein, W. (2003). Directions for Using GPS to find Heritage Tree location. Youth in grades 6-8. 153 distributed.

Hein, W. and Dudley, B. (2002). Rabbit and Cavy Project Guide Revisions. 4-H leaders. 13 distributed.

Hein, W. (2002). 4-H Camp GPS Activities. Youth in grade 8. 15 distributed.

Hein, W. (2002). Geocaching Activity at Hopkins Memorial Tree Farm. Youth in grades 6-12. 146 distributed.

Hein, W. (2002). Woods Watch Additional Materials. Youth in grades 6-7. 46 packets distributed.

Hein, W. (2002). Binnsmead Middle School Bird Box Inventory. Youth in grades 7-8. 12 distributed.

Hein, W. (2001). Between a Rock and a Hard Place. 4-H faculty and staff. 15 distributed.

Hein, W. (2001). Animal Communication. Clackamas County 4-H Camp participants. 86 distributed.

Electronic Technology Programs

Hein, W. et al (2012). [Facebook pages. General public and Extension clients.](#)

Facebook page:	Number of likes On Dec 31, 2012	Post views "Lifetime post total reach"	Post feedback "Lifetime talking about this post"
Clackamas County 4-H Oregon (created 9/7/10)	335	15,160	544
OSU Extension Service – Clackamas County (created 4/28/11)	181	4,818	76

Hein, W. (2012). [OSU Extension - Clackamas County website](#). General public and Extension clients. 586,308 total pageviews, ~63% of page views were 4-H content. Website managed with the Drupal program.

Hein, W. et al (2011). Facebook pages. General public and Extension clients.

Facebook page:	Number of likes	Post views	Post feedback
Clackamas County 4-H Oregon (created 9/7/10)	212	41,671	234
OSU Extension Service – Clackamas County (created 4/28/11)	117	12,682	25

Hein, W. (2011-2008). [OSU Extension - Clackamas County website](#). General public and Extension clients. 2,082,553 total pageviews, 60% of page views were in 4-H section. Website managed with the Drupal program.

Hein, W. (2007-2004). [OSU Extension - Clackamas County website: Home page and 4-H program pages](#). General Public and 4-H families. 105,372 total pageviews. Website managed with the Contribute Program.

Slide Sets, Video Tapes, CDs, DVDs

Hein, W. (2012). [The Geospatial Technology Petting Zoo](#). NAE4HA conference attendees. PowerPoint slides supporting 90 minute workshop.

Hein, W. and Redwine, K. (2012). [An Insider’s Guide to Access 4-H](#). 4-H staff and faculty. PowerPoint slides supporting 90 minute workshop.

Hein, W. [Instant Evaluation for good decision making: The quest for buried treasure!](#) NAE4HA conference attendees. Power Point slides supporting 90 minute workshop.

Hein, W. (2010). [Clerk Training: Instructions and Common Errors](#). PowerPoint slides supporting 20 minute training.

Hein, W. (2010) [Objectives and outcomes of the Master Showmanship Program](#). Oregon 4-H Spring Staff Conference participants. Power Point slides supporting 30 minute evaluation report.

Hein, W. and Hancock-Moody, P. (2010). [Lift Every Voice and Sing!](#) NCI conference participants. Power Point slides supporting 4 ½ hour presentation.

Hein, W. (2010). [GPS: How it Works](#). Tree School workshop participants. Power Point slides supporting 1 hour classroom session.

Hein, W. (2009). [The Quest for Buried Treasure: How to conduct an evaluation without leaving your office](#). Oregon 4-H Professional Development Conference workshop participants. PowerPoint slides supporting 60 minute workshop.

Hein, W. (2009). Web 2.0 Applications. New Extension faculty in the Extension Methods Class. PowerPoint slides supporting 15 minute training.

Black, L. and W. Hein. (2008). GIS? What is it and what does it have to do with me? PowerPoint slides supporting 45 minute presentation.

Hein, W. (2008). Clerk Training: Instructions and Common Errors. PowerPoint slides supporting 20 minute training.

Hein, W. (2008). 4-H is great! ... Isn't it? How Clackamas County 4-H can contribute to Research in Youth Development. PowerPoint slides supporting 45 minute presentation.

Hein, W. (2008). An introduction to YouTube. PowerPoint slides supporting 45 minute presentation.

Hein, W. (2007). Teen CERT: Introduction to GPS and GIS Technologies. Youth in grades 9-12. PowerPoint presentation used with 12 students.

Hein, W. (2007). 4-H Technology Opportunities. Youth in grades 7-12. PowerPoint presentation used with 12 students.

Hein, W, and Chambers, R. (Presented and coordinated the recorded program). (2002). Beyond the Dipping Duck: Hopkins Tree Farm. [videotape, 15 minutes]. Portland, OR: Portland Public Schools.

Hein, W. and Nagele, J. (2001). 2001: A 4-H Odyssey. 4-H members, leaders, parents, and community supporters. 194 PowerPoint slides, 250 participants.

Hein, W. and Nagele, J. (2001). 4-H Promotional Slide Show. Optimists club. 101 PowerPoint slides, 35 participants.

Hein, W. and Nagele, J. (2001). Child Protection. 4-H leaders. 9 PowerPoint slides, 250 participants.

Hein, W. and Nagele, J. (2001). Clackamas County 4-H Program Review. Program review team. 110 PowerPoint slides and handouts for 9 participants. (2003 – adapted by J. Baggott for Washington County program review)

Program Management Materials

Hein, W. (2012). 4-H: The Impact is clear. Youth service professionals. 40 distributed.

Hein, W. (2012). 4-H Foods project volunteer opportunities. Master Food Preservers. 12 distributed.

Hein, W. (2012). Eastern National Horse Roundup team schedule and information sheet. Youth Horse Bowl team and parents. 10 distributed.

Hein, W. (2012). Jessica Haney Memorial Scholarship information (application, promotion, and scoresheet). Volunteers and 12th grade 4-H horse members. 75 distributed.

Hein, W. (2012). [Fair Management Committee Budget packet](#) (budget, judge allocations, ribbon counts and needs). Committee members. 30 distributed.

Hein, W. (2012). [Horse Record Basics: What you need to know for the 2012 Horse Fair](#). 4-H members, parents, and leaders. 100 distributed.

Hein, W. (2012). [Clackamas County 4-H Horse Fair Record Review Checklist](#). Youth in grades 4-12. 279 distributed.

Hein, W. (2012). [New Leader Orientation Handbook](#). 4-H Leaders. 77 distributed

Hein, W. (2012). [Clackamas County 4-H Promotional Brochure](#). General Public. 250 distributed.

Hein, W. and Williams, J. (2012). [Clackamas County 4-H Re-Enrollment Packet](#). 4-H clubs. 160 distributed and available online.

Hein, W. (2012). Guide to the Member and Leader Enrollment Forms. 4-H families. 160 distributed and available online.

Requested and shared with Ashley Jones, Morrow County Extension.

Hein, W. (2012). [Clackamas County Awards and Recognition Night Program](#). Awards night attendees. 300 distributed and online.

Hein, W. and Williams, J. (2012). [Clackamas County Fair Entry Material Packet](#). 4-H clubs. 160 distributed.

Hein, W. (2011). Jessica Haney Memorial Scholarship information (application, promotion, and scoresheet). Volunteers and 12th grade 4-H horse members. 75 distributed.

Hein, W. (2011). What's going on with the EHV disease and what 4-H is doing about it. 4-H horse leaders and members. 200 distributed.

Hein, W. (2011). [Geospatial Scavenger Technoquiz and Task Force Events](#). NAE4HA conference attendees. 200 distributed.

Hein, W. (2011). [State Fair Presentations To Do List](#). Committee members. 7 distributed.

Hein, W. and Williams, J. (2011). [Clackamas County Fair Entry Material Packet](#). 4-H clubs. 161 distributed.

Hein, W. and Williams, J. (2011). Clackamas County 4-H Re-Enrollment Packet. 4-H clubs. 160 distributed and available online.

Hein, W. (2011-2010). Fair Management Committee Budget packet (budget, judge allocations, ribbon counts and needs). Committee members. 60 distributed.

Hein, W. (2011-2008). Horse Record Basics: What you need to know for the [2011, 2010, 2009, 2008] Horse Fair. 4-H members, parents, and leaders. 550 distributed and available online.

Hein, W. (2011-2008). Clackamas County 4-H Horse Fair Record Review Checklist. Youth in grades 4-12. 989 distributed.

Hein, W. (2011-2008). New Leader Orientation Handbook. 4-H Leaders. 331 distributed

Hein, W. (2011-2006). Clackamas County 4-H Promotional Brochure. General Public. 1675 distributed.

Hein, W. (2011-2003). Clackamas County Awards and Recognition Night Program. Awards night attendees. 1900 distributed and online.

Hein, W. (2011-2002). Junior Superintendent Handbook. Youth in grades 9-12. 159 distributed.

Hein, W. and Bundy, M. (2010). The Clackamas County HAY Fund poster . 4-H staff, volunteers, and the general public. 60 people reached.

Hein, W. (2010). 4-H Summit materials (invitation, 4-H demographic information, youth leadership opportunities, educational matrix). 4-H leaders, parents, and youth in grades 9-12. 50 distributed.

Hein, W. (2010). Clackamas County 4-H Camper packet. Families of campers. 40 distributed.

Hein, W. (2010-2003). Clackamas County Fair Entry Material Packet. 4-H clubs. 1258 distributed.

Hein, W. (2010-2003). Clackamas County 4-H Re-Enrollment Packet. 4-H clubs. 1560 distributed and available online.

Hein, W. (2009). HAY Fund support materials (application, donation form, promotional letter). 4-H horse families and leaders. 150 distributed.

Hein, W. (2008). Philosophy of the 4-H Horse Program. 4-H parents and leaders. 35 distributed.

Hein, W. (2007). National Volunteer Week Invitation. Extension Volunteers. 700 distributed.

Hein, W. (2007-08). 4-H Partnering With Business. Set of three white-sheets and one brochure. Businesses. 65 distributed.

Hein, W. (2007-2003). New Leader Orientation Handbook. 4-H Leaders. 477 distributed.

Hein, W. (2006). Master Showmanship Final Report. 4-H livestock members and leaders. 60 distributed.

Hein, W. (2006). National Volunteer Week Invitation. Extension Volunteers. 700 distributed.

Hein, W. (2006). Colt Donation Flyer and Application. 4-H Horse members. 450 distributed.

Hein, W. and Applebee, T. (2006). 4-H Promotional Display. General Public. Display used at County Fair and other events, approx. 11,000 people reached.

Hein, W. (2005). Position Descriptions for Livestock State Fair Chaperones. 4-H middle managers. 20 distributed.

Hein, W. and youth volunteers. (2005). 4-H Promotional Display. General Public. Display used at County Fair, approx. 10,000 people reached.

Hein, W. (2004). Position Descriptions for Horse Advisory and Horse Advisory Organizational Chart. 4-H middle managers. 8 distributed.

Hein, W. and youth volunteers. (2004). 100 Years of 4-H in Oregon. General Public. Display used at 2 events, approx. 10,500 people reached.

Hein, W. and youth volunteers. (2003). 4-H: What is it Really Like. General Public. Display used at 2 events, approx. 10,500 people reached.

Hein, W. (2003). What if my club has money? Transferring 4-H leaders. 15 distributed.

Hein, W. and youth volunteers. (2002). 100 years of 4-H: Keeping the Tradition Alive. General Public. Display used at 2 events, approx. 10,000 people reached.

Hein, W. and Nagele, J. (2002). New Leader Orientation Handbook. 4-H Leaders. 90 distributed.

Hein, W. (2002). Woods Watch Promotional Brochure. Teachers and the General Public. 350 distributed.

Hein, W. (2002). Woods Watch Agendas. Woods Watch Volunteers and Teachers. 30 distributed.

Hein, W. (2002). Tour Guide Resource Sheet. Woods Watch Volunteers. 5 distributed.

Hein, W. (2002). Adventure Members newsletter article. (Adapted by the Jefferson County 4-H newsletter.)

Hein, W. (2001). White Water Rafting Promotional Flyer. 4-H families and the General Public. 1300 distributed.

Hein, W. (2001). 4-H: What is it really like?. General Public. Display used at 3 events, approx. 10,000 people reached.

Hein, W. (2001). Foot and Mouth: Educational Display Ideas. 4-H livestock leaders. 50 distributed.

Hein, W. (2001). Livestock Opportunities for State Fair 2001. 4-H livestock leaders. 50 distributed.

Evaluation Tools or Instruments for Data Collection

Hein, W. (2012). Evaluation Day Survey. Oregon State University Extension Service. 2 pp. 34 distributed.

Hein, W. (2011-2010). Evaluation Day Survey. Oregon State University Extension Service. 2 pp. 77 distributed.

Hein, W. (2010). 4-H Summit Plenum and Focus Group Protocol and Questions. Oregon State University Extension Service. 10 distributed.

Hein, W. (2011-2009). Master Showmanship Participant Survey. Oregon State University Extension Service. 2 pp., 73 distributed.

Hein, W. (2008). Card Sorting Activity for Website Focus Group. Oregon State University Extension Service. 5 sets distributed.

Hein, W. (2008-2005). Master Showmanship Participant and Judge Surveys. Oregon State University Extension Service, 1 pp., 135 distributed. IRB #3006.

Black, L. and Hein, W. (2007). 4-H Teen CERT Pre-test and Post-test Surveys. Oregon State University Extension Service, 3 pp., 70 distributed. IRB #3406.

Hein, W. (2004-2003). GPS for Dummies Evaluation. Oregon State University Extension Service, 1 pp., 23 distributed.

Hein, W. (2002). Clackamas County 4-H Camp Program. Oregon State University Extension Service, 4 pp., 85 distributed. IRB #1955.

Hein, W. (2002). 4-H Global Positioning System (GPS) Evaluation. Oregon State University Extension Service, 1 pp., 20 distributed.

Hein, W. (2002). Woods Watch. Oregon State University Extension Service, 1 pp., 4 distributed.

Hein, W. (2002). National Style Showmanship. Oregon State University Extension Service, 1 pp., 29 distributed.

Team or Collaborative Efforts

4-H ExCEL in Animal Science. (2012). Three metro area 4-H faculty (Maureen Hosty, Pat Willis, and Wendy Hein) partnered with the Oregon Zoo to offer a career exploration program for high school students. The Zoo approached 4-H about providing information and experiences for youth in its three volunteer programs. These youth come from a range of backgrounds, with some struggling to finish high school and others that are academically high-achieving. All share an interest in animal science careers. The Zoo and 4-H both see a trend in high school youth that like animals to express an interest in becoming either a vet or a zoo keeper. However, youth often lack the understanding of how competitive these fields are and tend to overestimate the financial rewards of these careers. The 4-H faculty developed the 4-H ExCEL (Exploring Careers, Education, and Leadership) Program which was conducted in Fall 2012. The participants were mostly zoo volunteers with a few 4-H members who were all in grades 10-recent graduate. Over four sessions, a total of 20 hours, youth learned about careers in animal science, did a personal assessment of their skills and work styles, and learned about options for post-secondary education, including paying for college. One of the sessions was an all-day field trip to OSU where students toured the campus. Evaluation is ongoing and a follow-up protocol to determine impacts has been submitted to the IRB. Results so far show that youth expanded their ideas about careers and future education opportunities. Feedback about program structure will be incorporated into the next session, planned for 2013. The faculty member's roles in the project included an even share of the project conception, planning meetings, and evaluation.

4-H Science Experiment at the Hatfield Marine Science Center. (2011-10). The faculty member coordinated efforts to present the 4-H national science experiment to the visitors at the Hatfield Marine Science Center (HMSC) during the 2011 and 2011 National 4-H Week. The Clackamas County Ambassador Team held a leadership retreat in Newport that weekend. In looking for a service activity, the faculty member wanted to incorporate National 4-H Week. The 2010 experiment, "4-H₂O," and the 2011 experiment, "Wired for Wind," emphasized natural resources and were a good fit with HMSC. Partners in Oregon Sea Grant and at HMSC included Sam Chan, Nancee Hunter, Bill Hanshumaker, and Tracy Crews. In 2010, Vanessa Klingensmith, the Lincoln County 4-H agent, agreed to also participate. Each county spent 3 hours facilitating the experiment and presented information about 4-H. A total of 45 visitors tried the science experiment. In 2011, the teens were trained to lead the experiment by Janet Nagele. They spent 3 hours at the HMSC and attracted 8 youth participants and 10 adults.

Bob's Red Mill Oat Donation. (2008). The county 4-H program was approached by Bob's Red Mill about a possible donation of oats that failed a quality test, but were still safe for animal and human consumption. Bob's and 4-H worked out a plan for 4-H to pick up the oats and distribute them to 4-H families, who mostly used them for livestock feed. The faculty member found volunteers to transport six tons of oats to several locations in the county, including a distribution point at the Extension office.

4-H Teen CERT Program. (2006-07). I was a partner in this effort to train high school youth in disaster preparedness and response. The organizer of the program was Lynette Black, who was a program assistant I supervised. She brought in Sandy High School, the Sandy area CERT group, and the Sandy Fire Department to help facilitate the class. Ten students participated in the one-semester, half-credit, after-school class. I taught two class sessions on GPS and GIS and helped students complete a service-learning project utilizing those technology skills. I assisted in developing the evaluation instrument and conducted the data analysis. This program and the evaluation results have been presented at three national conferences with Lynette Black.

GPS/GIS 4-H Afterschool Program. (2004). I and fellow agent Janet Nagle partnered with the Canby School District and the City Planner of Canby to offer a hands-on afterschool program for 6-8 grade students. The students learned about forestry, maps, GPS, and GIS. They used their skills to take data on 12 potential Heritage Trees at the Clackamas County Fairgrounds. They created a map of the trees using ArcGIS software and one student presented the results to the Canby City Council. The class met twice weekly throughout the fall. I planned and taught 17 of the 19 sessions. A grant from ESRI provided the software used in the class. Other partners included a teacher and an IT staff member of Canby High School, the Clackamas County GIS Department, and the Fairgrounds.

Oregon Zoo Family Farm Design Project. (2001-2002). The Oregon Zoo and the faculty member partnered to give 4-H members the opportunity to give input on the design of a new zoo exhibit. The faculty member arranged for 59 4-H members and leaders to visit the zoo for an overview of the project. Seven clubs worked on the project, with one club completing a poster for fair and two clubs returning to present their ideas to zoo administrators. The Zoo was impressed by the knowledge of the 4-H members and shared their suggestions with the designers of the Family Farm Exhibit, which opened in 2004.

Program Evaluations

4-H Ambassador Team Retreat. (2012). The 4-H Ambassador Team, a leadership program for youth in grades 9-12, holds an annual retreat each September to teach leadership skills and encourage new members to join the team. At the end of the retreat, the faculty member conducted an evaluation to determine participant satisfaction, recruitment success, and things learned. The Citizen Evaluation of Teaching, with an additional 9 questions, was used for part of the evaluation. A debriefing activity was also conducted and participants were asked to identify something they learned about the Ambassador Team and something they learned about themselves. On a scale of 1 (very poor) to 6 (excellent), participants gave the retreat an overall rating of $x=5.53$. The food and free time, unsurprisingly, received high marks ($x=5.39$ and $x=5.33$, respectively). The Listening Skills session, presented by a guest speaker, was rated moderately high ($x=5.17$) and, during the debrief, three members reported they had learned new skills from that session. This year's retreat had more outside and active time than past retreats. The night hikes (optional) and group hike (required) were rated highly, second only to food ($x=5.35$). In the self-reporting, three youth indicated new or positive things learned with respect to the outdoors (e.g., rock climbing skill), and two reported negative conclusions (e.g., dislike of outhouses). When asked what they learned about the team, four reported learning about the history of 4-H, a topic covered in the "mentoring session." Five answered included describing

the team as “fun,” four reflected on friends or getting to know people, and three commented on teamwork that was displayed. As a recruiting tool, the retreat was a success: the response to “The likelihood that I will enroll as an Ambassador this year is...” (x=5.59) was the highest rating on the entire survey.

Metro Record Evaluation Day. (2012-10). The survey was designed this year by the faculty member, with the input of the Metro Awards and Recognition Committee. The survey focused on the motivation of the volunteers to assist with this event and also to find out what was working and not working in the current system (2012: n=34; 2011: n=34; 2010: n=24). Responses on a Likert-type scale (of 1-5) indicated that the event is well organized (2012: x=4.94; 2011: x=4.88; 2010: x=4.83), that volunteers find this a good use of their volunteer time (2012: x=4.74; 2011: x=4.73; 2010: x=4.75) and that they would recommend this activity to other volunteers (2012: x=4.85; 2011: x=4.85; 2010: x=4.88). Although the Metro day is a one-day-per-year commitment, many of these volunteers would be willing to help with other awards or record book activities during the year (2012: x=4.21; 2011: x=4.21; 2010: x=4.05). In 2011, the event moved to a new facility in a different town. Respondents reported that the were facilities suitable (2012: x=4.94; 2011: x=4.94) and that the location was a good choice (2012: x=4.63; 2011: x=4.60), with 41% of them travelling 31-45 minutes (in 2011). In 2012, there were 12 first-year evaluators that completed the survey. Ten of those reported that the training workshop prepared them “very well” for evaluating record books, and two said it prepared them “somewhat well,” which are the top two options available for response.

4-H Summit. (2010). As part of a concerted effort to develop a strategic plan for the new Extension and 4-H Service District, the faculty member organized the 4-H Summit to gather input from 4-H club leaders, parents, and youth. Out of a sample (stratified and partly randomized) of 120 invitees, 35 attended the 3 ½ hour event. The opening session included questions answered via Turning Point clickers. These results showed that attendees represented a range of 4-H involvement from “2 years or less” to “more than 30 years” with the mode being “6-10 years.” Out of six possible motivations for volunteering, the most common answers chosen were “to support my own children” (22.2%), “to teach skills that I value” (29.6%), and “to develop character in today’s youth (22.2%). Participants suggested topics that needed to be addressed in the community. These were grouped into 6 theme areas and shared at the end of the summit. Participants broke into 7 pre-assigned focus groups (Youth Leadership, Financial Support, Volunteer Support, Educational Events, Competitive Events, Engaging Youth Today and Tomorrow, and Growing the Club Program). Focus groups were led by Extension facilitators and each group had supporting handouts. The focus groups discussed 6-7 questions and then reported back their top three ideas to the main group. The results of the summit show that the 4-H club model and our county offerings are mostly on target for meeting the needs of the community. Ideas that had the most emphasis included the teaching of “life skills” and giving youth true opportunities to make a difference; awarding youth based on their contributions more than for a single skill; educating youth, leaders, parents, judges, and the community on the philosophy of 4-H; using technology and other methods to improve access to services and information.

Parliamentary Procedure Basics. (2010). Learning parliamentary procedure was a focus of the 4-H Ambassador Team Leadership Retreat. It was taught and practiced throughout the event.

Participants rated themselves on their skill level before and after the retreat by standing by one of four categories. After converting the categories to a 4-point numerical scale, the data show that members increased their knowledge by nearly a full point ($x_{pre}=2.4$; $x_{post}=3.2$). More importantly, the bimodal distribution that existed at the start of the retreat (out of 14 youth, six knew “barely anything” and five knew “a lot”) had disappeared at the end. Youth who are unfamiliar with parliamentary procedure would likely have been less willing to get involved in the decision making of the group or take on an officer position.

GPS for Fun and Forestry. (2010). At the beginning and end of the class, participants stood by the category that fit their level of expertise in four skills. A 5-point, Likert-type scale was applied to answers; data was not paired. Participants gained at least one level of knowledge in each skill area: Basic operation of a GPS unit ($\Delta=1.0$); Saving waypoints ($\Delta=1.6$); Finding known coordinates using a GPS unit ($\Delta=1.6$); and Using GPS around a tree farm ($\Delta=1.0$).

Master Showmanship. (2010-2009). As the request of the Clackamas County 4-H Livestock Advisory, further analysis of this contest continues. The participant survey was redesigned to ask more questions about how participants study and prepare for the contest. In 2009 and 2010, more than half the participants reported that they prepared for the contest by asking people they knew how to show the other animals, and/or meeting with the other participants to practice with their animals. Other popular study methods were to watch others show (67% in 2009) and reviewing the written test packet (85% in 2010). The median time spent studying at the fair was 5 hours, while the median time spend studying before the fair was less than one hour. The results of the contest continue to be analyzed for a bias towards goat project areas; the combined data from 2005-2009 shows no significant difference between the scores of goat participants and non-goat participants.

Master Showmanship. (2005-2008). IRB protocol # 3006. The objective of the evaluation was to validate or dispel the concerns expressed by leaders and members about the fairness of the Livestock Master Showmanship Contest, held every year during county fair. A common question was whether or not those in goat projects had an advantage in the contest, since four different goat project areas are represented. The faculty member evaluated the program at the 2005-2008 County Fairs. Youth participants and adult judges were each given surveys. The youth surveys showed that members felt the contest was very good overall, and indicated that the key goals of the contest were being accomplished. The judges were positive about the contest and the caliber of showmen in the contest. To further test the hypothesis that goat members have an advantage, the scores from the contest were analyzed. There was no significant difference between the scores of goat and non-goat participants. Data from the state fair also showed that goat members were not more likely to win than expected by chance. Interestingly, the perception of many youth participants was that goat members had an advantage in the contest, even though that conclusion is not supported by the contest results. A report was presented to the Clackamas County 4-H Livestock Advisory, completing this phase of the evaluation project. The research has also been shared in scholarly presentations and a paper.

4-H Teen CERT. (2007). IRB protocol #3406. An evaluation was developed to assess the efficacy of the pilot of the 4-H Teen CERT program. Modeled after the Citizen Emergency Response Team (CERT) program developed by the Department of Homeland Security, the 4-H

Teen CERT program strives to train youth to respond to disasters by incorporating sound youth development principles into emergency preparedness lessons. This original program, envisioned and designed by Lynette Black, was offered to three classes of high school students in two communities. The faculty member's role included developing the technology lessons, co-writing the evaluation instruments, and data analysis and interpretation. A total of 33 youth completed both the pre- and post-surveys. Youth showed increases in knowledge and skills needed in a disaster (significant changes on nine questions), they changed their attitudes about responding to emergencies (significant changes on two questions), and they had incorporated readiness behaviors into their lives (significant changes on two questions). Interestingly, the youth did not increase their awareness of how likely a disaster was to affect their hometown, and they did not develop an interest in careers in fields related to disaster preparedness. Findings also showed increases in measures of positive youth development. After completing the 4-H Teen CERT program, youth are more confident that their community needs them, that they can contribute to their community, and that others would listen to their directions in an emergency. We also asked the youth if they had used their training in the months since starting the class. One student recognized that her mother was going into shock and took her to the hospital, possibly saving her life.

Clackamas County 4-H Camp. (2002). IRB protocol #1955. A survey administered on the last day of the week-long camp was designed to measure opinions and attitudes of campers. Out of 85 campers, 83 valid surveys were returned. Major findings include that 80% of campers were girls and that 58% of campers had been to our camp in one or more previous years. Ninety-two percent of campers said they would like to come back to camp again. Free time and swimming were the highest rated activities. There were four activities that were rated significantly higher by girls than boys, and one activity that was rated higher by boys (chi-square tests, $p < .05$). The data show that many of our camp activities were rated highly by 11-year-old girls, which is not surprisingly the largest demographic group to attend our camp. Discussion was held with the Camp Committee as to how to attract more boys to camp. The "Challenge" leadership program delivered to 7th and 8th grade campers was given strong positive ratings with 60% and 55% of participants reporting "a lot" of increase in their leadership and citizenship skills, respectively. A complete written report was prepared and distributed to Camp Committee members.

Other Assignments

Educational Programs Facilitated

Leadership for a balanced 4-H Youth Development Education Program includes the important task of facilitating the delivery of educational programs by others. Because of the number and diversity of projects and activities in the 4-H Youth Development Program, it is critical that a faculty member engages other educators in the delivery of content related classes, workshops, and events. Many educational programs either include or culminate in events such as clinics,

camp, or contests which provide opportunities for members and leaders to utilize the new skills they are learning through 4-H Youth Development Education Programs.

Facilitation Summary			
Type	# programs	Total time	Participants
Project-focused content skills	250	3,200.5	47,361
Leadership skills for adults and youth	206	873.5	2,443
Geospatial technology and Other	73	580.5	7,293
Total	529	4,654.5	57,097

Project-focused content skills

Various Presenters. (2012). Clackamas County 4-H Horse Fair. Youth in grades 4-12, Canby, OR, 7.5 days, 279 participants. (Supervised planning committee and superintendent; sent 64 youth to State Horse Fair)

Various Presenters. (2012). Clackamas County 4-H Horse Prefair and Western Gaming Prefair. Youth in grades 4-12, Canby, OR, 2 sessions, 30 hours total, 250 participants. (Supervised planning committee, middle managers, and superintendent)

Various Presenters. (2012). Horse Clinics (topics: Back to Basics, Trail, Dad Potter, Ranch Horse) Youth in grades 4-12, Canby, OR, 4 sessions, 18 hours total, 100 participants.

Various Presenters. (2012). Horse Bowl, Judging, Hippology, and Public Speaking Contests. Youth in grades 4-12, Canby and Oregon City, OR, 2 sessions, 21 hours total, 210 participants. (Supervised planning committee and middle managers; sent 6 teams and 4 speakers to Spring Horse Classic. 1 Horse Bowl team to Eastern National Horse Roundup)

Various Presenters. (2012). Springfest Open Schooling Horse Show. General public, Boring, OR, 8 hours, 55 participants. (Supervised planning committee and middle managers)

Various Presenters. (2012). HEARTH Big Fun Food Day and SpringFest workshops and contests. Youth grades K-12, Canby, OR, 2 sessions, 12 hours total, 75 participants. (Supervised planning committee, revised and distributed contest guidelines, taught sessions)

Various Presenters. (2012). Clackamas County Fair. Youth in grades K-12, Canby, OR, 7 days, 644 participants. (sent 200 youth to state fair; supervised 9 areas and 11 middle manager volunteers)

Various Presenters. (2011). Information about the horse EHV-1 virus (at an all-horse leaders' meeting). 4-H leaders and parents, Canby, OR, 1 hour, 150 participants. (Assembled committee to respond to concerns and plan meeting, presented part of program, developed information packet)

Various Presenters. (2011-2003). Clackamas County 4-H Horse Fair. Youth in grades 4-12, Canby, OR, 9 sessions, 63.5 days total, 2756 participants. (Supervised planning committee and superintendent; sent 691 total youth to State Horse Fair)

Various Presenters. (2011-2003). Clackamas County 4-H Horse Prefair and Western Gaming Prefair. Youth in grades 4-12, Canby, OR, 17 sessions, 246 hours total, 2581 participants. (Supervised planning committee, middle managers, and superintendent)

Various Presenters. (2011-2003). Horse Clinics (topics: Back to Basics, Trail, Horse Bowl, Horse Judging, Hippology, Dressage, Jumping, Driving, Dad Potter, Western Gaming, “What is it?”) Youth in grades 4-12, Boring, Canby, and Oregon City, OR, 51 sessions, 175 hours total, 1049 participants.

Various Presenters. (2011-2003). Horse Bowl, Judging, Hippology, and Public Speaking Contests. Youth in grades 4-12, Canby and Oregon City, OR, 23 sessions, 151.5 hours total, 1042 participants. (Supervised planning committee and middle managers; sent 32 teams and 31 speakers to Spring Horse Classic, one team and 3 speakers to National 4-H Roundup)

Various Presenters. (2011-2008, 2006-2003). Springfest Open Schooling Horse Show. General public, Boring and Canby, OR, 7 sessions, 74 hours total, 605 participants. (Supervised planning committee and middle managers)

Various Presenters. (2011, 2007-2003). HEARTH Big Fun Food Day and SpringFest workshops and contests. Youth grades K-12, Canby, OR, 13 sessions, 80 hours total, 742 participants. (Supervised staff member [2010, 2007-2004], assisted planning committee, revised and distributed contest guidelines, taught sessions)

Various Presenters. (2011-2001). Clackamas County Fair. Youth in grades K-12, Canby, OR, 11 sessions, 77 days total, 6809 participants. (sent 1474 youth to state fair)

Year	Program areas supervised	# middle managers supervised
2011	9	11
2010	9	16
2009	9	18
2008	9	18
2007	20	30
2006	19	33
2005	18	32
2004	18	28
2003	18	28
2002	10	17
2001	10	16

Various Presenters. (2010-2001). Livestock Judging Contests. Youth grades 4-12. Canby and Clackamas, OR, 19 sessions, 48 hours total, 335 participants. (Supervised middle manager)

Various Presenters. (2008-2002). Livestock Prefairs (Llama, Goat). Youth grades 4-12. Canby and Oregon City, OR, 8 sessions, 32 hours total, 141 participants. (Supervised middle managers)

Davis, W. (2008). Livestock Show Ethics. Youth grades 4-12 and adults, Oregon City, OR, 1 hour, 30 participants. (invited presenter, publicized event)

Various Presenters. (2010, 2007-2001). Clackamas County 4-H Dog Fair. Youth in grades 4-12, Canby, OR, 8 sessions, 80 hours total, 297 participants. (Supervised staff member [2010, 2007-2004], planning committee and superintendent, sent 60 members to State Fair)

Various Presenters. (2010, 2007-2001). Clackamas County 4-H Dog Prefair. Youth in grades K-12, Canby, OR, 8 sessions, 66 hours total, 291 participants. (Supervised staff member [2010, 2007-2004], planning committee and superintendent)

Clackamas County Dog Leaders. (2010, 2007-2001). Dog Contests (Dog Bowl, Judging, Dog Expo, Fun Match, Contest Day). Youth in grades K-12. Canby and Estacada, OR, 13 sessions, 52 hours total, 307 participants. (Supervised staff member [2010, 2007-2004] and planning committee)

Clackamas County Dog Leaders. (2010, 2007-2001). Dog Clinics (Obedience, Showmanship, Agility, Judging). Youth grades K-12, Canby, Molalla, Aurora, Oregon City, and Wilsonville, OR. 10 sessions, 42 hours total, 173 participants. (Supervised staff member [2010, 2007-2004] and volunteers)

Various Presenters. (2010, 2007-2002). Spring Fling Rabbit, Cavy and Poultry Shows. Youth in grades K-12, Canby, OR, 9 sessions, 64 hours total, 887 participants. (Supervised staff member [2010, 2007-2004] and middle managers)

Various Presenters. (2010, 2007-2004). Small Animal Clinics, Prefair and Learning Days. Youth in grades K-12. Canby, OR, 6 sessions, 21 hours total, 179 participants. (Supervised staff member and middle manager)

Various Presenters. (2007-2006). 4-H Herpetology Fun Day. Youth in grades K-12, Canby, OR, 2 sessions, 6 ½ hours total, 16 participants. (arranged for guest speaker [2007], organized a planning committee [2006], coordinated the event, publicized and ran event)

Various Presenters. (2007-2006). Small Animal Royalty Show. Youth in grades K-12. Canby, OR, 2 sessions, 8 hours total, 37 participants. (Supervised staff member and middle managers)

Various Presenters. (2006). HEARTH Workshops (Foods, Clothing, Art, Photography). 4-H leaders and parents, Oregon City, OR, 2 sessions, 8 hours total, 30 participants. (Supervised staff member and middle managers)

Various Presenters. (2005, 2001). Livestock Workshops (Livestock Judging, Pygmy Goat Judging, Wool and Fiber). Youth grades 4-12. Canby, Sandy and Oregon City, OR. 14 sessions, 26 hours total, 53 participants. (Supervised middle manager)

Various Presenters. (2003). Regional Horse Bowl Contest. Youth in grades 4-12, Canby, OR, 8 hours, 40 participants. (Supervised planning committee and middle manager)

Bruce Moos. (2002). Livestock Carcass Evaluation. Youth grades 4-12 and Adult Leaders. Oregon City, OR, 2 hours, 28 participants. (Supervised planning committee)

Various Presenters. (2001). SpringFest. Youth in grades K-12, Canby, OR, 8 hours, 180 participants. (Supervised middle managers in rabbit, cavy, dairy goat, and dog events, arranged promotion of camp and rafting programs)

Leadership skills for adults and youth

Various Presenters. (2012). 4-H ExCEL in Animal Science Program. Youth in grades 10-recent graduate. Portland and Corvallis, OR. 4 sessions, 20 hours total, 31 participants. (one of three faculty that planned the program, facilitated sessions, lined up speakers, and evaluated the program).

Various Presenters. (2012). County Ambassador Program (Team meetings, promotional events, fundraisers, leadership trainings, and service activities). Youth grades 9-12. Oregon City, Portland, and Newport, OR. 15 sessions, 80 hours total, 35 participants. (trained and supported advisors, taught leadership skills, presented opportunities to team, transportation and assistance at events)

Fair Management Committee. (2012). All Leader Fair Meeting. 4-H leaders and parents, Canby, OR, 2 hours, 150 participants. (Planned meeting with middle manager and program assistant, produced and provided all written materials)

Various Presenters. (2012). Fair Management Committee clerk training. 4-H Fair Superintendents, Oregon City, OR, 1 hour, 35 participants. (planned the meeting, lined up speakers, prepared teaching materials)

Various Presenters. (2012). State Fair 4-H Fashion Revue. Youth grades 7-12 (statewide), Salem, OR, 30 hours, 50 participants. (supported team of youth event chairs, provided on-site support throughout contests)

Various Presenters. (2011). State Fair 4-H Presentations. Youth grades 7-12 (statewide), Salem, OR, 37 hours, 77 participants. (led team of volunteers, provided on-site support throughout contests, hired judges)

Various Presenters. (2011-2002). County Ambassador Program (Team meetings, promotional events, fundraisers, leadership trainings, and service activities). Youth grades 9-12. Oregon City, Portland, and Newport, OR. 132 sessions, 539 hours total, 273 participants. (Trained and supported advisor(s), interim advisor, presented opportunities to team, transportation and assistance at events, supervised program assistant (2010))

Fair Management Committee. (2011-2003). All Leader Fair Meeting. 4-H leaders and parents, Canby, OR, 9 sessions, 25 hours total, 1270 participants. (Planned meeting with middle manager, produced and provided all written materials, presented at meeting)

Various Presenters. (2011-2005). Fair Management Committee clerk training. 4-H Fair Superintendents, Oregon City, OR, 7 sessions, 13 ½ hours total, 241 participants. (planned the meeting, lined up additional speakers, presented part of the agenda)

Various Presenters. (2011-2009). Interview Clinic. State 4-H Ambassador Team applicants. Oregon City and Portland, OR, 3 sessions, 8 hours total, 13 participants. (coordinated clinic and helped with practice interviews)

Jeffrey, M. (2010). 4-H Junior Superintendent Training. Junior Superintendents and Adult Superintendents, Oregon City, OR. 2 hours total, 20 participants. (Arranged for training, prepared handouts, communicated with participants)

Various Presenters. (2008). New and Used Horse Leaders' Orientation. 4-H Horse leaders and parents, Canby, OR, 3 hours, 20 participants. (Supervised planning committee and middle managers)

Various Presenters. (2006-2005). Master Showmanship Task Force. Older 4-H members, Oregon City, OR, 5 meetings, 21 hours total, 12 participants. (facilitated meetings and presentation, provided background information to Task Force, prepared report of group outcomes)

Various Presenters. (2006). Master Showmanship Task Force Report. 4-H members, leaders, and parents. Oregon City, OR, 2 hours, 20 participants. (assisted in presentation PowerPoint, worked with youth presenters, prepared handouts)

Ambassador Team members. (2005). Make a Difference Day (community service). 4-H and the community, Canby and Sandy, OR, 4 hours, 56 participants. (Supervised middle manager and youth)

Sulzman, J. (2004). Horse Program Issues Meetings. 4-H Leaders, parents, and older youth, Canby, OR, 4 hours, 100 participants. (communicated with hired facilitator, publicized and organized meetings, participated in resolution process)

Clackamas County 4-H Camp Committee. (2010, 2002-2001). Camp Counselor Training. Youth in grades 9-12. Milwaukie, Gladstone and Colton, OR, 22 sessions, 82 total hours, 40 participants. (Supervised planning committee and interacted with participants)

Geospatial technology and Other

Various Presenters. (2012). County Horse Record Book Assessment. Youth grades 4-12, Oregon City, OR, 8 hours, 8 evaluators, 279 youth record books. (Supervised volunteer coordinator, invited and trained evaluators, evaluated records, prepared supplies and handouts)

Various Presenters. (2012). Clackamas County 4-H Awards and Recognition Night. 4-H youth, parents and leaders and community supporters, Canby, OR, 3 hours total, 350 participants. (Advised teen planning committee, presented awards, supervised planning, invited donors and decision makers)

Various Presenters. (2012). County Record Book Judging. Youth grades 4-12, Canby, OR, 2 sessions, 7 hours total, 16 evaluators, 196 youth record books. (Planned event with middle manager, invited evaluators, prepared supplies and handouts, helped evaluate records)

Clackamas County/Metro Awards and Recognition Committee. (2012). Record Book Workshop. 4-H Leaders and youth grades 4-12, Oregon City, OR, 3 hours, 12 participants. (Supervised committee and prepared handouts)

Various Presenters. (2012). Record Book Evaluator Training. 4-H leaders and parents, Oregon City, OR, 2 sessions, 5 hours total, 8 participants. (Supervised middle managers, prepared handouts)

Various Presenters. (2012). Metro Record Book Judging. Youth grades 4-12, Sherwood, OR, 11 hours total, 38 evaluators, 251 youth record books. (provided handouts and supplies, supervised middle managers)

Snell, E. et al. (2011). Animal Behavior Society at the Wonderlab. Youth ages 2-7, Bloomington, IN, 3 hours, 30 youth. (assisted at behavior observation activity)

Various Presenters. (2011-2008). County Horse Record Book Assessment. Youth grades 4-12, Oregon City, OR, 4 sessions, 25 hours total, 31 evaluators, 989 youth record books. (Supervised volunteer coordinator, planned first event, invited and trained evaluators, prepared supplies and handouts)

Various Presenters. (2011-2001). Clackamas County 4-H Awards and Recognition Night. 4-H youth, parents and leaders and community supporters, Canby, OR, 11 sessions, 29 hours total, 2960 participants. (Advised teen planning committee, presented awards, supervised planning committee [2010-2003], invited donors and decision makers [2010-2003])

Various Presenters. (2011-2003). County Record Book Judging. Youth grades 4-12, Canby, OR, 10 sessions, 56.5 hours total, 77 evaluators, 1089 youth record books. (Planned event with middle manager, invited evaluators, prepared supplies and handouts, helped evaluate records)

Clackamas County/Metro Awards and Recognition Committee. (2011-2003). Record Book Workshop. 4-H Leaders and youth grades 4-12, Oregon City, OR, 9 sessions, 28 hours total, 166 participants. (Supervised committee, assistant presenter [2007-2006], and prepared handouts)

Various Presenters. (2011-2005). Record Book Evaluator Training. 4-H leaders and parents, Oregon City, OR, 10 sessions, 22 hours total, 34 participants. (Supervised middle managers, prepared handouts)

Various Presenters. (2011-2008). Metro Record Book Judging. Youth grades 4-12, Sherwood and Beaverton, OR, 4 sessions, 38 hours total, 167 evaluators, 727 youth record books. (provided handouts and supplies, supervised middle managers)

Various Presenters. (2011, 2008). 4-H Resume Information Session. Metro-area youth nominated for National 4-H Congress and their parents, Oregon City and Tualatin, OR, 2 sessions, 6 hours total, 14 participants. (Procured meeting space, invited youth, supervised middle managers, gathered handout materials)

Various Presenters. (2010, 2002-2001). Clackamas County 4-H Camp. Youth in grades 4-8, Colton, OR, 3 sessions, 18 days total, 204 participants. (Supervised planning committee, arranged bus transportation for campers, coordinated with horseback riding vendor, recruited youth Horse Wranglers and facilitated educational sessions)

Phillips, J. and Phillips, J. (2010). LEGO robotics and the FTC program. Youth grades 7-12, Corvallis, OR, 90 minutes, 20 participants. (recruited the youth presenters, wrote class proposal)

Hein, W. (2008). Office web work days. County Extension staff, Oregon City, OR, 3 sessions, 6 hours, 10 participants. (Available for consultation, one-on-one web training, and editing others' work)

Various Presenters. (2007-2005). Youth activity at the Oregon City Farmers' Market. General public, Oregon City, OR, 7 sessions, 56 hours total, 615 participants. (supervised staff members and volunteers, manned booth)

Various Presenters. (2005). High Five Challenge game show. 4-H members and their families, Portland, OR, 6 hours, 20 participants. (Corresponded with Host and TV station, organized the team, facilitated team meeting)

McDowell, J. (2004). GIS Day. Youth in grades 6-8. Oregon City, OR, 1 hour, 1 participant. (Set up the event)

Gilpin, Scott. (2003). Contribute Web Training. County Extension Office staff, Oregon City, OR, 4 hours, 7 participants. (Coordinated training, local tech support to prepare for training, suggested agenda topics)

Public Information and Media

News Columns and Releases

News Columns and Releases Summary	
Topic	Number of Articles
Horses and 4-H Horse programs	10
County Fair	11
Geospatial technology programs	4

Promotion and recruitment	4
Other	18
Total	47

(2011, July 11). General Canby Day (list of award winners). Canby Herald. Published twice weekly and online, 6000 print readers.

Hein, W. (2012, July). Students Choose “Animal Eggs” as Their Favorite Animal Behavior Book of the Year. Press Release.

Hein, W. (2012, August). Local 4-H Members Recognized at the Clackamas County Fair. Press Release.

Hein, W. (2012, November). Winner of the 2012 Animal Behavior Society Outstanding Children’s Book Award. Animal Behavior Society Newsletter, <http://animalbehaviorsociety.org/central-office/newsletters/volume-57-2012/august-2012-vol.57-no.3>

Hein, W. (2012, August). Children's book reviews: 2012 Book Award finalists teach and delight young readers. Animal Behavior Society Newsletter, <http://animalbehaviorsociety.org/central-office/newsletters/volume-57-2012/november-2012-vol.57-no.4-1>

Hein, W. (2011, November 17). Morgan Owners Honored by Oregon 4-H. Published on www.morganhorse.com

(2011, August 24). OC woman vies for Miss Rodeo Oregon. Oregon City News/Clackamas Review. Published weekly and online, 10,000 readers.

Fuggetta, E. (2011, August 17). Kids and their critters are key. The Oregonian. Clackamas County Community News (Oregon City). Published daily and online, 600,000 print readers.

Savage, P. (2011, June 22). Cloverleafs bring home trophies. Canby Herald. Published twice weekly and online, 6000 print readers.

Scott, J. (2011, May 31). Oregon State University 4-H Hall of Fame honors three volunteers. Published at <http://extension.oregonstate.edu/news/node/790/>

Monroe, B. (2011, January 26). Car accident takes 18-year-old’s life. The Molalla Pioneer. Published twice weekly and online, 7000 print readers.

(2010, December 8). Canby girl wins award. Canby Herald. Published twice weekly and online, 6000 print readers.

Hein, W. (uncredited). (2010, September 11). Top 4-H winners at Clackamas County Fair. The Oregonian. Clackamas County Community News. Published daily and online, 600,000 print readers.

Savage, P. (2010, August 21). Middle schoolers sought for Lego robotics league. Canby Herald. Published twice weekly and online, 6000 print readers.

Flynn, N. (2010, August 14). Fortifying 4-H (Molalla). The Oregonian. Clackamas County Community News (Oregon City). Published daily and online, 600,000 print readers.

Flynn, N. (2010, August 13). Fortifying 4-H (West Linn). The Oregonian. Clackamas County Community News (West Linn). Published daily and online, 600,000 print readers.

Savage, P. (2010, February 10). Robot pride. Canby Herald. Published twice weekly and online, 6000 print readers.

Jacobsen, K. (2009, Summer). And summertime means fairtime – Aug. 17-23: Youth return from annual Springfest ready for County Fair. Clackamas County Citizen News. Published quarterly, 163,000 distributed.

Dungca, N. (2009, August 13). End of an era/A decade of 4-H. The Oregonian, Clackamas County Weekly insert. Published daily and online, 600,000 print readers.

Crouch, P. (2009, May 6). Riding to Win. Canby Herald. Published twice weekly and online, 6000 print readers.

Staff Writer. (2009, February). 2009 Salute to Youth Organizations. Molalla Pioneer. Published twice weekly and online, 7000 print readers.

Schmitz, J. (2008, November). Stumbling economy leaves animals in lurch. Capitol Press. Published weekly, 50,000 readers.

Hunsberger, S. (2008, October 23). More horses might starve or be abandoned during difficult economic times. The Oregonian. Published daily and online, 600,000 print readers.

Muñoz, O. (2008, August 11). Clackamas County Fair keeps traditions, adds new exhibits. The Oregonian. Published daily and online, 600,000 print readers.

Muñoz, O. (2008, August 11). C'mon, show your skills. The Oregonian. Southwest Weekly section. Published daily and online, 600,000 print readers.

Guibord, G. (2008, August 6). Sandy shows off. The Sandy Post. P. 2. Published weekly and online, 4000 print readers.

Staff Writer. (2008, July 22). Local student picked for National 4-H Congress. The Sandy Post. Published weekly and online, 4000 print readers.

Hunsberger, S. and Pederson, C. (2007, March 29 and May 3). The new 4-H. The Oregonian. Cover story of the “Clackamas County Weekly” and “Southwest Weekly” supplements. Published daily and online, 600,000 print readers.

Zuckerman, P. (2006, December 22). Neglect-case colt gets a loving new owner. The Oregonian. P. 1 (Metro) Published daily and online, 600,000 print readers.

Sewell, A. (2006, December 29). Special colt gets a second chance. Molalla Pioneer. Published twice weekly and online, 7000 readers.

Vining, C. (2006, December 27). Estacada 7th grade girl adopts neglected horse's offspring. Estacada News. P. 1. Published weekly and online, 2000 readers.

Hughey, R. (2006, November 1) Bottled water sales, auction raise funds to replace old fair livestock barn. Canby Herald. P. 1. Published twice weekly and online, 6000 print readers.

Spitaleri, E. (2005, July 6). Chicken fanciers meet in Canby. Clackamas Review. Published weekly and online, 10,000 readers.

Wohnick, M. (2005, August 17). Prepared for the fair. Wilsonville Spokesman. P. 6. Published weekly, 5,000 readers.

Jagernauth, D. (2005, August 25). Blue Ribbon Days. Wilsonville Spokesman. Published weekly, 5,000 readers.

Howell, D. (2004, December 22). Property owners called on to erase graffiti. Canby Herald. P. 11. Published Twice-weekly, 5,100 readers.

Woods, T. (2004, October 28). Canby works to identify trees rooted in history. The Oregonian. P. 6, Published daily, 600,000 readers.

Hughey, R. (2004, August 25). Partying with the animals in Canby. Canby Herald. P. 1, 2, 14, Published twice-weekly, 5,100 readers.

Howell, D. (2004, May 1). 4-H'ers *gallop* to fairgrounds. Canby Herald. P. 12, Published twice-weekly, 5,100 readers.

Hein, W. (2004, January). Clackamas County 4-H. The Wilsonville Spokesman. Special Community Awareness page, Published weekly, 5,000 readers.

Tsao, E. (2003, October 20). 4-H kids sell water, raise cash for barn. The Oregonian. P. B1 (Metro/Clackamas County), Published daily, 600,000 readers.

Tsao, E. (2003, October 20). Idea holds water: Kids raise money for barn at Clackamas Fair. The Oregonian. P. B2 (Metro/South), Published daily, 600,000 readers.

Schweitzer, D. (2003, July 23). Horsin' Around. Canby Herald. P. 1, Published twice-weekly, 5,100 readers.

Clackamas County staff. (2003, summer). Extension Service: Addressing our community's needs. Clackamas County Citizen News. P. 6, Published quarterly, 163,000 distributed.

Dog Nose News Staff. (2002, May 1). Youth Clubs Need Leaders. Dog Nose News. P. 5, Published monthly, 70,000 readers.

Kadera, J. (2002, April). Extension service plans GPS training. The Oregonian. P. B2 (Metro South), Published daily, 600,000 readers.

Woods, T. (2002, September 6). 4-H camp provides kids traditional summer fun. Capital Press. P. 14, Published weekly, 40,000 readers.

Hein, W. (2002, July 2). Oregon 4-H Foundation Promoting Centennial Celebration. Clover Corner News. Published weekly by mass email.

Book Reviews

Hein, W. (2012). Review of *Leaps and Creeps: How Animals Move to Survive*, by Robin Koontz, published by Marshall Cavendish/ Benchmark, 2011.

- Published in the Animal Behavior Society Newsletter, Vol. 57 No. 3 (November 2012), available online at <http://animalbehaviorsociety.org/central-office/newsletters/volume-57-2012/november-2012-vol.57-no.4-1>

Hein, W. (2011). Review of *What in the Wild?*, by David M. Schwartz and Yael Schy, published by Tricycle Press, 2010.

- Published in the Animal Behavior Society Newsletter, Vol. 56 No. 4 (November 2011), available online at <http://animalbehaviorsociety.org/central-office/newsletters/volume-56-2011/november-2011-vol.56-no.4>

Hein, W. (2010). Review of *The Strange Life of the Land Hermit Crab*, by Wendy Pfeffer, published by Mondo Publishing, 2009.

- Published in the Animal Behavior Society Newsletter, Vol. 55 No. 4 (November 2010), available online http://animalbehaviorsociety.org/central-office/abs-newsletters/Nov%202010%20newsletter_new.pdf
- Published online at <http://animalbehaviorsociety.org:8786/Committees/ABSEducation/Book-awards/2010-book-award-finalists>

Hein, W. (2009). Review of *Wolfsnail: A Backyard Predator*, by Sarah Campbell, published by Boyds Mills Press, 2008.

- Published in the Animal Behavior Society Newsletter, Vol. 55 No. 4 (November 2009), available online <http://animalbehaviorsociety.org/central-office/abs-newsletters/Nov%202009%20newsletter.pdf>
- Published online at <http://animalbehaviorsociety.org:8786/Committees/ABSEducation/Book-awards/2009-book-award-finalists>

Public Reports

Various Authors. (in revision). Clackamas County Extension and 4-H Service District Strategic Plan. (co-author of general and 4-H sections)

Various Authors. (2011). Extension In the News: Farms, Food, Families. Clackamas County Extension Community Report. 20,000 distributed. (wrote two articles, provided photo)

Various Authors. (2009). Extension In the News: Farms, Food, Families. Clackamas County Extension Community Report. 80,000 distributed. (provided background for 4-H articles and photo captions)

Various Authors. (2008). Extension In the News: Kids. Community. Environment. Clackamas County Extension Community Report. 90,000 distributed. (wrote two articles about 4-H, provided photos)

TV, Radio, and Internet Video and Audio

Fuggetta, E. (2011, August 17). 4-H at the Clackamas County Fair.

<http://videos.oregonlive.com/oregonian/2011/08/4-h-at-the-clackamas-county-fa.html>

Hein, W. (2008). 2008 Clackamas County Fair 4-H Highlights. [4:27 minutes]. Posted on YouTube at <http://www.youtube.com/watch?v=rRjvDbZKHDM> 100 views (though July 2009).

Faligowski, W. (2005). High Five Challenge™: 4-H vs. Cub Scouts. [KOIN TV and Comcast Cable Access Channel, 30 minutes, aired twice]. 10,000 viewers.

Various Presenters. (2004). Road to the Clackamas County Fair. [Clackamas County Government Channel, 30 minutes, in regular program rotation]. Oregon City, OR. Station has 40,000 viewers.

Chambers, R. (2002). Beyond the Dipping Duck: Hopkins Tree Farm. [Portland Public Schools Cable Channel, 15 minutes, in regular program rotation]. Portland, OR Metropolitan Area. 1000 viewers per broadcast.

Other Assigned Duties

(2012-2001). Participate in planning exercises, trainings, and group-building activities as a member of the Clackamas County Extension team. Ensure that programs are open to all people and track efforts to engage diverse audiences, in compliance with civil rights regulations. Support creation and continuation of Extension Service district by providing statistics, arranging for 4-H youth to speak at informational sessions, and communicating with clientele. Conduct needs-assessments and use the data to inform a long-term plan for the district funding.

(2012-2001). Oversee an expense budget of \$4500-6000 annually. Manage the 4-H Cost Recovery Account, which takes in and spends about \$20,000 each year.

(2011-2001). Supervise a program assistant who is responsible for 4-H promotion, recruitment, and club maintenance [supervisor of record, 2010-12]. Supervise the 4-H secretary.

(2012-2010). Work with the Fair Management Committee, made up of all the 4-H Superintendents, to facilitate the 4-H portion of the county fair. Oversee the 4-H fair budget, provided by the fair board, of \$20,000. Manage disbursements of the dollars, which are managed in an account held by the CC4HLA. Schedule off-season 4-H events. Maintain a positive relationship with the fairgrounds manager and the fair board, who provide an additional \$50,000 in complimentary services and facility use.

(2012-2011). Recruit, screen, train/update, supervise and evaluate over 300 4-H leaders for the 4-H Youth Development Program. Train 68-77 new volunteers annually. Provide mentoring, coaching, and one-on-one training for 50 middle manager volunteers. Attend monthly Advisory Committee meetings for Horse, HEARTH, Awards, and the youth Ambassador Team. Work with volunteer County Coordinator to promote and support host families and outbound youth in International Exchange programs (1-3 families per year).

(2012-2001). Identify and facilitate potential donations. Meet with donors to identify programs that fit their interest. Contact businesses or individuals about special donation requests. Provide receipts and documentation to donors of tax exempt status. Work with Oregon 4-H Foundation to handle large donations and the establishment of endowments.

Major donations facilitated:

Donor	Year of Donation	Description of donation	Responsibility of faculty member
Claremont Riders Saddle Club	2012	\$35,000 donated to the Oregon 4-H Foundation to start an endowed scholarship fund.	Meetings with the club's members about options for donations, encouraged the creation of an endowment, continued contact with donors as annual awards are given.
Friends and family of Jessica Haney	2011	\$27,207.75 transferred to the Oregon 4-H Foundation to create the Jessica Haney Memorial Endowment; \$2000 kept locally for the first scholarships.	Publicized and assisted in accepting memorial donations, supported family fundraiser events, facilitate endowment creation, developed scholarship application process

American Steel, LLC		\$3860 in-kind donation on a steel purchase for replacement hog pens	Made the contact and the ask
Clackamas County Riding Club		\$10,000 cash donation for Horse member scholarships	Worked with donor to find appropriate purpose, maintain contact and invite to annual awards program
Alderman Quarter Horses		\$3500 cash donation from sale of a colt	Worked with the donor to auction a colt to benefit 4-H, created an educational program for 4-H members at the donor's facility

(2010-2001). Serve as liaison to the Clackamas County Junior Livestock Auction. Recruit 4-H representatives for the committee. Provide technical assistance on non-profit management. Promote the program to 4-H youth and inform them of rule changes. The annual auction generates \$150,000-207,000 from sales of 4-H member animals, which is paid to the youth.

(2010-08, 2006-05, 2002). Promote 4-H and the OSU Extension Service with a float entry in the Portland Rose Festival Starlight Parade, a night-time, illuminated parade that attracts 350,000 sidewalk viewers and 200,000 television viewers each year. Work with the 4-H Ambassador Team to design the float, establish work days, and recruit parade participants. Procure the \$150 entry fee from the Oregon 4-H Foundation or the Ambassador Team. Write the application and television script, and secure insurance through the OSU Contracts office.

(2010, 2007-2003). Oversee the Clackamas County 4-H Leaders' Association, Inc. operation and Board of Directors. Attend monthly meetings, assist with fundraising events, and ensure compliance with state and federal non-profit law, the IRS, and rules for the use of the 4-H Name and Emblem. Collect annual financial statements from all clubs and advisories and report to the tax preparer. Solicit donations. Total income each year ranges from \$90,000-\$157,000.

(2010, 2007-2003). Supervise a program assistant that assists with the 4-H club program, especially in the HEARTH, Small Animal, Dog, and Older Youth areas.

(2010). Recruit, screen, train/update, supervise and evaluate 383 4-H leaders for the 4-H Youth Development Program. Train 55 new volunteers annually. Provide mentoring, coaching, and one-on-one training for 100 middle manager volunteers. Attend monthly Advisory Committee meetings for Horse, Livestock, and Awards, and as needed for HEARTH, Dog, Small Animal, and the youth Ambassador Team.

(2009-2003). Work with the Fair Management Committee, made up of all the 4-H Superintendents, to facilitate the 4-H portion of the county fair. Oversee the 4-H fair budget, provided by the fair board, of \$25,000. Schedule off-season 4-H events. Maintain a positive

relationship with the fairgrounds manager and the fair board, who provide an additional \$50,000 in complimentary services and facility use.

(2009-2007). Recruit, screen, train/update, supervise and evaluate over 250 4-H leaders for the 4-H Youth Development Program. Train 100 new volunteers annually. Provide mentoring, coaching, and one-on-one training for 60 middle manager volunteers. Attend monthly Advisory Committee meetings for Horse, Livestock, Awards, and the youth Ambassador Team. Promote and support host families and outbound youth in International Exchange programs.

(2007-2003). Recruit, screen, train/update, supervise and evaluate over 400 4-H leaders for the 4-H Youth Development Program. Train 100 new volunteers annually. Provide mentoring, coaching, and one-on-one training for 100 middle manager volunteers. Attend monthly Advisory Committee meetings for Horse, Livestock, and Awards, and as needed for HEARTH, Dog, Small Animal, and the youth Ambassador Team.

(2007-08). As the webmaster for the county Extension site, serve as the local member of the team to redesign the Clackamas County Extension website. Work closely with the web graphic designers from Extension and Experiment Station Communications at OSU, take professional development workshops about marketing and web issues, and review the monthly analysis of web use statistics. Design a focus group activity to get input on the best architecture for the menus. Author approximately 65% of the new pages and review and edit every page before going live (the new site had nearly 70 pages when it went live in July 2008).

(2006). At the request of the Clackamas County Commissioners, develop a program for the county to award a horse confiscated in an animal neglect case to a 4-H member. Create an application process for 4-H members, set selection criteria, and put together an interview and selection committee. Working with the county's Public and Government Relations department, arrange an interview and photo opportunity for the press on the day the colt was delivered to his new home, one week before Christmas. This resulted in coverage by three newspapers, county cable TV, and a radio station.

(2002-2001). Recruit, screen, train/update, supervise and evaluate over 200 4-H leaders for the 4-H Youth Development Program. Train 50 new volunteers annually. Provide mentoring, coaching, and one-on-one training for 50 middle manager volunteers. Attend monthly Advisory Committee meetings for Livestock, Dog, Small Animal, Camp, White Water Rafting, and the youth Ambassador Team.

Scholarship and Creative Activity

The forms of scholarship appropriate for this position include the development of new materials or methods and the integration and application of knowledge which leads to new understandings and impacts on youth development programming, especially in 4-H club program management and youth technology education. This scholarly work is intended to contribute to the development of the most appropriate programs for Clackamas County. This

work is shared professionally to contribute to other 4-H Youth Development professionals' abilities to improve their programs.

Presentations at Professional Meetings

National

National Association of Extension 4-H Agents (NAE4-HA) Conference

The National Association of Extension 4-H Agents (NAE4-HA) is an internationally recognized association of over 3,500 professional youth development educators. The NAE4-HA Conference is the premier venue for dissemination of innovation among 4-H Youth Development faculty nationwide. Between 900-1200 youth educators attend this conference annually. Abstracts for poster, seminar or research presentations are evaluated through a double-blind, national peer-refereed process. Acceptance rate for abstracts ranges from 40-50 percent.

2012, 2010, 2007- 2005. [National Association of Extension 4-H Agents Conference](#). Atlanta, GA, Milwaukie, WI, Seattle, WA, Phoenix, AZ, Orlando, FL.

Hein, W., Burks, J., Patent-Nygren, M., Roberts, G., and the Geospatial Task Force. (2012). The Geospatial Technology Petting Zoo. [Proceedings of the Annual Conference of the National Association of Extension 4-H Agents](#). p. 26, 90 minutes, 20 participants. Seminar Presentation.

Hein, W. (2010). Instant Evaluation for Good Decision Making. [Proceedings of the Annual Conference of the National Association of Extension 4-H Agents](#). p. 91, 90 minutes, 15 participants. Seminar Presentation.

Black, L. and Hein, W. (2007). 4-H Teen CERT: Turning Disasters Into Success. Abstract: [Proceedings of the Annual Conference of the National Association of Extension 4-H Agents](#). p. 24. 90 minutes, 21 participants. Seminar Presentation. (co-presenter)

Hein, W. (2007). The Master Showmanship Contest: Fairness at the Fair. Abstract: [Proceedings of the Annual Conference of the National Association of Extension 4-H Agents](#). p. 97. 45 minutes, 8 participants. Research Presentation

Hein, W., Conroy, L., Martin, D., Knutz, M., and. Magaña, M. (2005). How to Start a 4-H GPS/GIS Project. Abstract: [Proceedings of the Annual Conference of the National Association of Extension 4-H Agents](#). http://nae4ha.wsu.edu/abstracts/D_ydp52.htm. 90 minutes, 52 participants. Seminar Presentation. (coordinated presentation, lead presenter)

National Camping Institute

This biennial conference is for 4-H professionals working with camping programs. . Abstracts for workshop presentations are evaluated through a double-blind, peer reviewed process. Acceptance rate in 2010 was 100%.

2010. National Camping Institute X. Salem, OR.

Hein, W. and Hancock-Moody, P. (2010). Lift Every Voice and Sing! Abstract: Proceedings of the NCI X Conference. p. 11. 4 ½ hours, 5 participants. Workshop Presentation. (co-presenter)

Joint Council of Extension Professionals (JCEP) Galaxy Conference

JCEP is composed of leaders from the five national associations supporting Extension Professionals, including the NAE4HA. Besides supporting professional concerns of all Extension faculty and staff, JCEP sponsors a joint conference periodically that replaces the annual conferences of the member associations. Programs that are cross-disciplinary are often showcased here. Abstracts for poster, seminar or research presentations are evaluated through a double-blind, national peer- refereed process. Acceptance rate for abstracts ranges from 20-40 percent.

2008. Joint Council of Extension Professionals Galaxy Conference. Indianapolis, IN.

Hein, W. and the NAE4HA GIS/GPS Task Force (2008). Making the Case for Geospatial Learning: Getting From Here to There. Abstract: Proceedings of the Joint Council of Extension Professionals Galaxy III Conference, p. 48. Poster Presentation. (prepared and presented poster)

Black, L., Hein, W., and Powell, P. (2008). The Power of Youth in Emergency Preparedness. Abstract: Proceedings of the Joint Council of Extension Professionals Galaxy III Conference p. 124. 90 minutes, 19 participants. Seminar Presentation. (co-presenter)

Children, Youth and Families at Risk (CYFAR) Conference

CYFAR is a federal initiative to focus Extension programs on the needs of young people and families most in need of education and community programming. Many presentations show the result of targeted federal grants. The conference is a respected academic forum for those in Youth Development and Family and Community Sciences. Between 900 and 1100 attend the conference annually. Abstracts for poster, seminar or research presentations are evaluated through a double-blind, national peer- refereed process. Average acceptance rate for abstracts ranges from 35-40 percent.

2008. Children, Youth, and Families At Risk Conference. San Antonio, TX.

Black, L. and Hein, W. (2008). 4-H Teen CERT: Turning Disasters into Success. Abstract: Proceedings of the CYFAR 2008 Conference. p. 43. 90 minutes, 19 participants Seminar Presentation. (co-presenter)

American Evaluation Association Conference

The American Evaluation Association is the national professional organization for program evaluators. The annual conference provides professional development and skill building opportunities for evaluators. The conference also serves as a major forum for the dissemination of evaluation methods and results. The association has over 5500 members. Presentations and posters are selected by a blind review, and are directed to a relevant Topical Interest Group (in this case, Extension) for review. Acceptance rates are 45-95%.

2006. American Evaluation Association Annual Conference. Portland, OR

Hein, W. (2006). 4-H Master Showmanship: Using Evaluations and Statistics to Determine the “Fairness” of a Contest. Abstract: Proceedings of the American Evaluation Association Conference, <http://www.eval.org/search06/session.asp?sessionid=5000&presenterid=801>. Poster Presentation.

Animal Behavior Society Conference

The Animal Behavior Society was founded in 1964 to promote the study of animal behavior in the broadest sense, including studies using descriptive and experimental methods under natural and controlled conditions. Its journal is Animal Behaviour. The Animal Behavior Society holds its annual meeting each summer, inviting those interested broadly in behavioral ecology, ethology, evolution, ecology, psychology and neuroscience. Attendees can present a 15-minute contributed talk or a poster. Meeting locations range from Canada to Latin America.

2000. Animal Behavior Society Annual Conference. Atlanta, GA.

Hein, W. K., Westneat, D.F., and Poston, J. (2000). The Effects of Age, Sex, and Morphology on Dominance and Aggression in House Sparrows (*Passer domesticus*) Abstract: Proceedings of the Animal Behavior Society 37th Annual Meeting. 15 minutes, 30 attendees. Research Presentation. (presenter)

Regional

Pacific Northwest 4-H Staff Development Conference

Periodically, the state Extension Services and state NAE4HA affiliates agree to share a common professional conference instead of their usual state meetings. Oregon, Washington, and Idaho joined together to give staff and faculty the opportunity to present peer-reviewed sessions in a broader setting.

2006. Pacific Northwest 4-H Staff Development Conference. Boise, ID.

Hein, W. and Black, L. (2006). 4-H Master Showmanship: What Is “Fair”? Abstract: Proceedings of the Pacific Northwest 4-H Staff Development Conference. Poster Presentation. (prepared and presented poster)

State

Oregon 4-H Professional Development Conference

The Oregon State University Extension Association 4-H Affiliate (OSUEA4-HA) hosts seminar and poster presentations to feature outstanding programming and research at each Oregon 4-H Professional Development Conference. Abstracts for seminar and poster presentations are evaluated through a double-blind, state peer-refereed process. Acceptance rate for abstracts ranges from 40-45 percent.

2012-2001. [Oregon 4-H Professional Development Conference](#). Hood River, Corvallis, Eugene, Bend, Sunriver, Warm Springs, Wilsonville.

Hein, W. and Redwine, K. (2012). [An Insider's Guide to Access 4-H](#). Abstract: [2012 4-H/FCH Spring Conference Agenda](#). p. 13. 90 minutes, Research and Evaluation Presentation.

Hein, W. (2010). Objectives and Outcomes of the Master Showmanship Contest. Abstract: [Proceedings of the 2010 Oregon 4-H Professional Development Conference](#). p. 6. 30 minutes, Research and Evaluation Presentation. *Due to an injury, Lynette Black presented the slide presentation and handouts.*

Hein, W. (2009). The Quest for Buried Treasure: How to conduct an evaluation without leaving your office. Abstract: [Proceedings of the 2009 Oregon 4-H Professional Development Conference](#). p. 6. 60 minutes, 7 participants. Seminar Presentation.

Black, L. and W. Hein. (2008). GIS? What is it and what does it have to do with me? Abstract: [Proceedings of the 2008 Oregon 4-H Professional Development Conference](#). p. 2. 45 minutes, 21 participants. (co-presenter)

Hein, W. (2003). Using GPS/GIS Technology to Enhance Natural Science Education for Youth. 90 minutes, 8 participants.

Other Professional Conferences

Environmental Systems Research Institute (ESRI) International User Conference

Leading GIS software company ESRI sponsors an annual International User Conference in San Diego attended by more than 12,000 GIS professionals. In conjunction with the main meeting, several interest group sessions are held. The Education Users Conference, which has about 650 participants, includes presentations geared to those who teach GIS in K-12 schools, college, museums, and in informal education programs like 4-H. Teams of 4-H youth and adults are selected to attend the conference through a state and national application process. Presentation proposals are reviewed by the organizing committee.

2007. [ESRI International User Conference](#). San Diego, CA.

Hein, W., Black, J. and Champigny, J. (2007). Oregon 4-H: Getting Youth Involved in Spatial Thinking!: 4-H Teen CERT Program. Abstract: [Proceedings of the 2007 ESRI Education User Conference](#),

<http://gis.esri.com/library/userconf/educ07/educ/abstracts/a1793.html>. 15 minutes, 40 attendees. Seminar Presentation. (introduced project, prepared youth presenters)

Refereed Abstracts

Hein W.K., Westneat, D.F. (presenter), and Poston, J.P. (2002). Sex of opponent influences response to a potential status signal in house sparrows. Abstract: Proceedings of the 9th International Behavioral Ecology Congress, Montréal, Québec, Canada.

Research Papers

Hein, W. K. (2000). Dominance relationships and patterns of aggression in flocks of House Sparrows, *Passer domesticus*. University of Kentucky, Lexington, KY. Unpublished Masters thesis.

Refereed Professional Journal Articles

Journal of Extension

The Journal of Extension (JOE) is the official refereed journal of the U.S. Cooperative Extension System. JOE expands and updates the research and knowledge base for Extension professionals and other adult educators to improve their effectiveness. JOE is written, reviewed, and edited by Extension professionals, sharing with colleagues successful educational applications, original and applied research findings, scholarly opinions, educational resources, and challenges on issues of critical importance to Extension educators. JOE is an online journal with an acceptance rate of 32.4%. In 2008, JOE averaged 5954 daily visitors to the website.

Hein, W. (2009). How do we know if our contests are “fair”? *Journal of Extension*. [On-line], 47(4). Available on-line at <http://www.joe.org/joe/2009august/>

Animal Behaviour

First published in 1953, Animal Behaviour is a leading international publication and has wide appeal, containing critical reviews, original papers, and research articles on all aspects of animal behavior. Growing interest in behavioral biology and the international reputation of Animal Behaviour prompted an expansion to monthly publication in 1989. Animal Behaviour continues to be the journal of choice for biologists, ethologists, psychologists, physiologists, and veterinarians with an interest in the subject. The journal has an impact factor of 2.828 and the acceptance rate is 40-42%.

Hein W.K., Westneat, D.F., Poston, J. P. (2003). Sex of opponent influences response to a potential status signal in house sparrows. *Animal Behaviour*, 65(6). p.1211-1221.

Westneat, D.F., Walters, A., McCarthy, T.M., Hatch, M.I., and Hein, W.K. (2000). Alternative mechanisms of nonindependent mate choice. *Animal Behaviour*, 59(3), p. 467-476.

Grants and Contracts

Grant Summary	
Program area	Amount funded
Geospatial Technology	\$59,800
Other 4-H programs	\$26,415
Total	\$86,215

Hein, W. (2012). “Shaping a sound financial future for 4-H clubs and committees”. Clackamas County Extension Innovative Funds Program. \$7500 competitive grant. Funded.

Hein, W. (2009-10). “Clackamas County 4-H Camp”. Jackson Camp Scholarship Program. \$2,000 competitive grant. Funded.

Hein, W. (2008-09). “Clackamas County 4-H Technology Programs”. Trust Management Services, Inc. \$10,000 competitive grant. Funded.

Hein, W. and L. Black (2007) “ESRI Intermediate 4-H Grant”. ESRI, Inc. \$10,000 (in products) competitive grant. Funded.

Nagele, J., Valverde, I., and Hein, W. (2004) “ESRI 4-H Grant”. ESRI, Inc. \$30,000 (in products) competitive grant. Funded.

Hein., W. (2004) “One-Time Help Grants”. Oregon 4-H Youth Development Program. \$15,000 competitive grant. Funded.

Hein, W., Mitchell, G., and Bondi, M. (2002-2003). “Learning Today, Leading Tomorrow: Using GPS/GIS Technology to Enhance Natural Science Education for Youth”. Northwest Academic Computing Consortium. \$9800 competitive grant. Funded.

Hein, W. (2001). “Camperships for 4-H Camp Adams,” United Way of the Columbia-Willamette, \$1915 competitive grant. Funded.

Service

University and OSU Extension Service

<i>Year</i>	<i>Committee Assignment</i>	<i>Involvement</i>
2012-2011	Faculty Senate	Off-Campus Extension Senator
2012-2008	Faculty Status Committee	Committee Member
	2009 – Faculty Furlough special task force	

College, School, Department, and Program

<i>Year</i>	<i>Committee Assignment</i>	<i>Involvement</i>
2012	Eastern National 4-H Roundup	Head Chaperone
2011-2008	State 4-H Recognition Committee	Member
2010-2009	4-H Center Camp Leadership Committee	Member
2009-2006	4-H Science, Engineering, and Technology Committee	Member
2009-2006	YDE Department Academic Affairs Comm.	Member
2008-2005	4-H Horse Development Committee	Member
2006	National 4-H Congress, Oregon delegation	Head Chaperone
2006-2005	Double Degree Planning Committee	Member
2005-2002	4-H Small Animal Development Committee	Member
2003-2002	Western Regional 4-H Leaders' Forum	Chair of Commercial Exhibits Led "Food Fundamentals" Tour

Extension/County

2012-2001	Technology Committee	Webmaster
2006	Building Committee	
2003	Affirmative Action	Alternate Officer
2003	Social Committee	Member

Service to the Profession

National

2012-2001	National Association of Extension Agents, member Programs Committee and Geospatial task force (2012-2006) Geospatial task force Chair (2011-2010) Proposal Reviewer for NAE4HA Conference (2010)	
2007	4-H GIS/GPS Tech Team, member of National and Oregon teams	

State

2012-2001	Oregon State University Extension Association, 4-H affiliate member	
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Chair of Evening Events (Planning committee for hosting NAE4HA 2015 annual conference) (2012-2011)
 Awards and Recognition Committee (4-H) (2012-2010)
 State's Night Out Coordinator, NAE4HA Conference (2009)
 President of 4-H affiliate (2008-2009)
 State's Night Out Coordinator, JCEP Galaxy Conference (2008)
 Secretary of 4-H affiliate (2007-2006)
 Esprit de Corps committee (2007-2004)
 Ad hoc committee on tenure concerns (2004)

Service to the Public (professionally related)

2012 Decorating team for one auction tree in the Providence Festival of Trees
 2012-2007 North Clackamas Chamber of Commerce, member (office representative)
 2012-1999 Animal Behavior Society, member
 Education committee member (2011-2001)
 Children's Book Award committee (2012-2008)
 Children's Book Award Chair (2012)
 Genesis Award judge (2011)
 2012-2001 Metro area 4-H Records Judge
 2010-2006 American Evaluation Association, member
 Extension Topical Interest Group member
 2009 Senior Project Community Consultant for Breanna Treuers, North Clackamas High School
 2009 4-H National Camping Institute, hosted promotional booth
 2009 NACAA Annual Conference, airport host
 2009-2006 Portland Symphonic Choir Education and Outreach Committee
 Co-Chair, Young Artists' Conference (2006-2007)
 2008-2006 Judge, DECA State Career Development Conference
 2008 Wasco County Horse Bowl and Speaking Contest Judge
 2008 Reviewer for ESRI 4-H Grant Program
 2007 Senior Project Advisor for Jessica Black, Sandy High School
 2007-2005 Board Member, Clackamas County Youth Council (WorkSource Oregon)
 2005 Judge, 4-H Community Fun Days, Environmental Middle School, Portland, OR
 2005 Reviewer for the journal Hormones and Behavior (scientific article related to thesis topic)
 2005 General Science expert, American Board for the Certification of Teacher Excellence, Standard Setting meeting
 2003 "Lyle G. Cass" Award Presenter, Multnomah County 4-H Awards Program
 2003-2002 4-H Educational Displays Judge, Multnomah County Fair

Awards

National and International Awards

Team award to Larwood, L., Green, J., Bothum, C., Withee, S., Wells, E., Livesay, M., Knutz, M., Carlson, S., Kershaw, N., Busler, S., Smith, J., Smith, C., Hein, W., Willis, P., Middleton, T. & nineteen volunteers. (2012). States' 4-H International Exchange Programs—Extraordinary Quality Program. Framed Certificate. Presented by the national Board in recognition of extraordinary quality in all international exchange/global citizenship programs (one of four states receiving this award).

Hein, W. (2006). National Association of Extension 4-H Agents, Achievement in Service Award. Plaque. Recognizes members with less than seven years in the association who have shown exemplary programming effort, outstanding leadership and significant personal and professional growth.

Hein, W. (2005). Congressional Youth Leadership Council, Washington, DC, Honorary Commission to the 2005 National Young Leaders' Conference National Nomination Committee. Certificate. Recognizes educators who nominate high-achieving youth that go on to attend the Conference.

State and Regional Awards

Hein, W. (2012). Junior National Young Leaders Conference, Honorary Member of the 2011/2012 National Young Leaders' Conference National Nomination Committee. Certificate. Recognizes educators who nominate high-achieving youth that go on to attend the Conference.

Hein, W., Applebee, T., Williams, J., Nagele, J., and Redwine, K. (2011). National Association of Extension 4-H Agents (Western Region), Periodical Publication – Team Award. Certificate. Recognizes the best newsletter or other periodical submissions.

Hein, W. (2011). Oregon State University Extension Association – 4-H Affiliate, Media Presentation – Individual Award. Certificate. Recognizes the best annual submissions of multimedia presentations used for education.

Hein, W. (2008). National Association of Extension 4-H Agents (Western Region), Promotional Package – Individual Award. Certificate. Recognizes the best annual submissions of 4-H promotional materials.

Hein, W. (2006). Oregon State University Extension Association – 4-H Affiliate, Esprit Parlay Award. Special gift and presentation. Recognizes members who have made significant achievements in their profession and are also active in their community.