

CURRICULUM VITAE

NAME

Graff, Gregory D

ADDRESS

Agricultural and Resource Economics
College of Agricultural Sciences

Clark Building
1200 Center Avenue Mall

PHONE

(970) 491-4028

EDUCATION

2002 Ph D, University of California, Berkley

1999 MS, University of California, Berkley

1995 MA, Ohio State University

1992 BS, Cornell University

ACADEMIC POSITIONS

January 1999 - June 2001 Graduate Research Assistant, University of California- Berkeley.

September 1996 - December 1997 Graduate Research Assistant, University of California- Berkeley.

SABBATICALS

(2015-16) Chalmers University of Technology, Engaged in finishing up manuscripts on innovation and intellectual property with colleagues at Chalmers. Shadowing the Chalmers School of Entrepreneurship masters programs for ideas about curricular design.

OTHER POSITIONS

July 2011 - Present Associate Professor, Colorado State University.

August 2007 - June 2011 Assistant Professor, Colorado State University.

June 2004 - August 2007 Research Economist and Program Director, University of California- Davis.

February 2004 - August 2007 Visiting Research Fellow, University of California- Berkeley.

March 2003 - February 2004 Director of Research, Bio Economic Research Associates LLC (bio-era).

July 2001 - February 2003 Senior Analyst, University of California Office of the President.

September 1992 - August 1993 Editor Intern, Eurasia Publications.

PUBLISHED WORKS

Refereed Journal Articles

- Zilberman, D., Kaplan, S., Kim, E., Hochman, G., Graff, G. D. (2013). Continents divided: Understanding differences between Europe and North America in acceptance of GM crops. *GM Crops & Food*, 4(3), 202 - 208. www.landesbioscience.com/journals/gmcrops/article/26981/
- Graff, G. D., Phillips, D., Lei, Z., Oh, S., Nottenburg, C., Pardey, P. G. (2013). Not Quite a Myriad of Gene Patents. *Nature Biotechnology*, 31(5), 404-410.
- Bubela, T., Gold, E. R., Graff, G. D., Cahoy, D., Nichol, D. (2013). Patent Landscaping for Life Sciences Innovation: Toward Consistent and Transparent Practices. *Nature Biotechnology*, 31(3), 202-206.
- (2010). The Commercialization of Biotechnology Traits. *Plant Science*, 179, 635-644.
- (2003). Intellectual property resources for international development in agriculture. *Plant Physiol*, 133, 1666-1670.

Non-Refereed Journal Articles

- Graff, G. D., Hochman, G., Suntharlingam, C., Zilberman, D. (2015). The Competing Policy Paradigms of Agricultural Biotechnology: Implications and Opportunities for Emerging and Developing Economies. *AgBioForum*, 18(2), 168-181. <http://www.agbioforum.org/v18n2/v18n2a04-graff.htm>
- Jefferson, D., Graff, G. D., Chi-Ham, C., Bennett, A. B. (2015). The Emergence of Agbiogenetics. *Nature Biotechnology*, 33, 819-823.
- Zilberman, D., Graff, G., Hochman, G., Kaplan, S. (2015). The Political Economy of Agricultural Biotechnology. *German Journal of Agricultural Economics*, 64(4), 212-223.
- Mathews, D. J., Graff, G. D., Saha, K., Winickoff, D. E. (2011). Access to stem cells and data: persons, property rights, and scientific progress. *Science (New York, N.Y.)*, 331(6018), 725-7.
- Winickoff, D. E., Saha, K., Graff, G. D. (2009). Opening stem cell research and development: a policy proposal for the management of data, intellectual property, and ethics. *Yale journal of health policy, law, and ethics*, 9(1), 52-127.
- Bergman, K., Graff, G. D. (2007). The global stem cell patent landscape: implications for efficient technology transfer and commercial development. *Nature biotechnology*, 25(4), 419-24.
- Delmer, D. P., Nottenburg, C., Graff, G. D., Bennett, A. B. (2003). Intellectual property resources for international development in agriculture. *Plant physiology*, 133(4), 1666-70.
- Graff, G. D., Cullen, S. E., Bradford, K. J., Zilberman, D., Bennett, A. B. (2003). The public-private structure of intellectual property ownership in agricultural biotechnology. *Nature biotechnology*, 21(9), 989-95.

Non-Refereed Chapters in Books

- Alandete-Saez, M., Chi-Ham, C., Graff, G. D., Bennett, A. (in press). Intellectual Property in Agriculture. In Neal K Van Alfen (Ed) (Ed.), *The Encyclopedia of Agriculture and Food Systems*. Elsevier.
- Graff, G. D., Hochman, G., Zilberman, D. (in press). The Political Economy of Regulation of Biotechnology in

Agriculture. In Ron Herring (ed.) (Ed.), *Oxford Handbook on Food, Politics, and Society*. Oxford: Oxford Handbooks: Oxford University Press.

(2012). *Statement on Data, Materials Sharing, Intellectual Property in Pluripotent Stem Cell Science in Japan, China*. Hinxton Group white paper, December Online at http://www.hinxtongroup.org/consensus_hg12_final.pdf.

(2011). *Development of a new graduate course in sustainable technology entrepreneurship for scientists and engineers*. Paper prepared for American Society for Engineering Education (ASEE) annual conference, Vancouver, British Columbia, June 26-29.

(2011). *Structuring Public-Private Research Alliances: Allocating Intellectual Property and Control Rights to Optimize Collaborative R&D in Biofuels*. paper prepared for the Multi-state Research Project NC-1034, BIOTECHNOLOGY, BIOENERGY, AND FOOD SECURITY, University of California, Berkeley, March 24-26.

(2010). *Legal Context of University Intellectual Property and Technology Transfer*. refereed report prepared for the Committee on Management of University Intellectual Property: Lessons from a Generation of Experience, Research, and Dialogue, National Research Council, National Academies of Science, Washington DC, 224 pages.

Book Review

(2012). *Agricultural Biotechnology: Equity and Prosperity* (pp. 252-266). Chapter 15 in JS Popp, MM Jahn, MD Matlock and NP Kemper Eds, *The Role of Biotechnology in a Sustainable Food Supply*, Cambridge University Press.

(2012). *Patenting Genes and Genetic Inventions: Protections, Polemics, and Policies*. Myles Jackson, Ed., book on patenting genes (forthcoming).

(2012). *The Political Economy of Agricultural Biotechnology: Implications and opportunities for emerging and developing economies*. N Chandrasekhara Rao and David Spielman, Eds, *Biotechnology in India*, Oxford India, (forthcoming).

(2012). *The research, development, commercialization, and adoption of drought and stress tolerant crops*. N Tuteja and S Gill, *CROP IMPROVEMENT UNDER ADVERSE CONDITIONS*, Springer Science + Business Media.

CE Report/Bulletin/Factsheet

Byrne, P. F., Pendell, D. L., Graff, G. D. (2014). *Labeling of Genetically Modified Foods*. Colorado State University Extension. www.ext.colostate.edu/pubs/foodnut/09371.html

Letter

Graff, G. D., Zilberman, D., Bennett, A. B. (2009). *The contraction of agbiotech product quality innovation*. (8th ed., vol. 27, pp. 702-4). *Nature biotechnology*.

Research Report

Graff, G. D. (2014). *The Emergence of an Innovation Cluster in the Agricultural Value Chain along Colorado's Front Range*. Fort Collins: Colorado State University.

Graff, G. D., Thilmany, D. D. (2013). *The Value Chain of Colorado Agriculture*. CSU.

Graff, G. D., Mortenson, R., Goldbach, R. L., Thilmany, D. D., Davies, S. P., Koontz, S. R., Ponce-Pore, G., Rennels, K. (2013). *The Value Chain of Colorado Agriculture* (pp. 114). Fort Collins, CO: Dept. of Agricultural & Resource Economics and Office of Engagement, Colorado State University. outreach.colostate.edu/econ-dev/value-chain.html

PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS

January 28, 2015, "The Emergence of an Innovation Cluster in the Agriculture Value Chain Along Colorado's Front Range", Agrium / Crop Production Services (CPS), Agrium / Crop Production Services (CPS), Loveland, CO.

January 17, 2015, "The Emergence of an Innovation Cluster in the Agriculture Value Chain Along Colorado's Front Range", CSU Partners' Breakfast, National Western Stock Show, National Western Stock Show, Denver, CO.

January 14, 2015, "The Emergence of an Innovation Cluster in the Agriculture Value Chain Along Colorado's Front Range", VinCO 2015, Colorado Association of Viticulturalists and Eonologists (CAVE) and Colorado Horticultural Society, Grand Junction, CO.

January 7, 2015, "The Emergence of an Innovation Cluster in the Agriculture Value Chain Along Colorado's Front Range", Ag Innovators of Colorado, Rocky Mountain Innosphere, Fort Collins, CO.

December 17, 2014, "The Emergence of an Innovation Cluster in the Agriculture Value Chain Along Colorado's Front Range", meeting with Federico Pena (Colorado Impact Fund; Vestar Capital Partners), Colorado Impact Fund; Vestar Capital Partners, Denver, CO.

November 12, 2014, "The Emergence of a Colorado Ag Innovation Cluster", CSU Ventures, CSU Ventures, CSU, Fort Collins, CO.

November 7, 2014, "The Emergence of a Colorado Ag Innovation Cluster", Colorado Department of Agriculture stakeholder consultation, Colorado Department of Agriculture, Broomfield, CO.

October 29, 2014, "The Emergence of a Colorado Ag Innovation Cluster", Colorado Department of Agriculture stakeholder consultation, Colorado Department of Agriculture, Broomfield, CO.

October 24, 2014, "The Emergence of a Colorado Ag Innovation Cluster", Colorado Department of Agriculture stakeholder consultation, Colorado Department of Agriculture, Broomfield, CO.

October 16, 2014, "The Emergence of a Colorado Ag Innovation Cluster", Colorado Department of Agriculture stakeholder consultation, Colorado Department of Agriculture, Broomfield, CO.

October 14, 2014, "The Emergence of a Colorado Ag Innovation Cluster", Colorado Department of Agriculture stakeholder consultation, Colorado Department of Agriculture, Colorado Department of Agriculture, Broomfield, CO.

October 9, 2014, "The Emergence of an Innovation Cluster in the Value Chain of Colorado Agriculture: Consumer implications", Consumer Issues Conference: Food Perceptions, Practices, & Policies, University of Wyoming, University of Wyoming, Laramie, WY, peer-reviewed/refereed.

October 7, 2014, "The Business of Sustainably Feeding a World of 9 Billion", 2014 INTERNATIONAL COLLOQUIUM VISIONS OF FUTURE EARTH: Linking Society, Economics, and the Environment, Colorado State University, International Programs and College of Business, United States.

September 25, 2014, "The Emergence of a Colorado Ag Innovation Cluster", Dean's Leadership Council, Dean's

Office, College of Agricultural Sciences, CSU, CSU Denver Center, Denver, CO.

- September 24, 2014, "The Emergence of a Colorado Ag Innovation Cluster", Future Seed Executives (FuSE), American Seed Trade Association (ASTA), Oliver Manufacturing, La Junta, CO.
- September 22, 2014, "Putting New Knowledge to Work", Office of Institutional Research, CSU, Office of Institutional Research, CSU, CSU, Fort Collins, CO.
- September 15, 2014, "The Value Chain of Colorado Agriculture", USDA Faculty Exchange Program (FEP), USDA Faculty Exchange Program (FEP), CSU, Fort Collins, CO.
- September 9, 2014, "The Value Chain of Colorado Agriculture and the Emergence of a Colorado Ag Innovation Cluster", Berthoud Chamber of Commerce, Berthoud Chamber of Commerce, Berthoud, CO.
- August 20, 2014, "The Emergence of an Innovation Cluster in the Value Chain of Colorado Agriculture", Colorado Hemp Symposium, Office of US Representative Jared Polis, Boulder, CO.
- August 1, 2014, "The Value Chain of Colorado Agriculture", CU-CSU Hemp Research Institute Planning Meeting, CSU Office of Vice Provost for Research, Boulder, CO.
- July 28, 2014, "Innovation in the Global Bioeconomy", 2014 AAEA Annual Meeting, AAEA/AARES Organized Symposium, Minneapolis, MN, peer-reviewed/refereed.
- June 27, 2014, "The Value Chain of Colorado Agriculture", On Farm Water Management Program Pakistan Delegation, US-AID, CSU, Fort Collins, CO.
- June 18, 2014, "The Value Chain of Colorado Agriculture and the Emergence of a Colorado Ag Innovation Cluster", FCC Services Loan Officer Certification Program, FCC Services, Denver, CO.
- May 23, 2014, "An Innovation-led Industry Cluster in the Agricultural Value Chain on Colorado's Front Range", Fort Collins Startup Week: session on The Internet of Things (IoT) Meets Food and Agriculture, City of Fort Collins, Powerhouse, Fort Collins, CO.
- May 1, 2014, "The Emergence of an Innovation Cluster in the Value Chain of Colorado Agriculture: A First Look", Economic Development Council of Colorado (EDCC) 2014 Spring Conference, Economic Development Council of Colorado, Grand Junction, CO.
- April 5, 2014, "The Value Chain of Colorado Agriculture", Boulder County Organic Options Conference, Boulder County, Boulder, CO.
- March 31, 2014, "The Value Chain of Colorado Agriculture", WorldDenver International Visitor Leadership Program, WorldDenver, CSU, Fort Collins, CO.
- March 28, 2014, "Innovation in the Global Bioeconomy: A first look at the InSTePP Global Genetics Patent database", Pests, Germs and Seeds: The Economics of Policies, Programs, and Technologies for Managing Agricultural Pests and Diseases, NC-1034, University of California, Davis, CA, peer-reviewed/refereed.
- March 14, 2014, "Not Quite a Myriad of Gene Patents: Data and methods for assessing the landscape of US patents that claim isolated DNA", Analyzing Policy Impacts on Biotechnology Using Patent Data, Duke University, Duke University Center, Washington DC, peer-reviewed/refereed.
- March 13, 2014, "The impact of AMP v. Myriad on other industries", Congressional Workshop: The Future of Gene Patents, Making Sense of the Supreme Court's Decision, House of Representatives, US Congress, Rayburn House Office Building, US Congress, Washington DC, peer-reviewed/refereed.

February 20, 2014, "The Value Chain of Colorado Agriculture", Food and Agricultural Policy Council of Boulder County, Boulder County, Longmont, CO.

February 6, 2014, "Innovation in the Global Bioeconomy", Australian Agricultural and Resource Economics Society (AARES) Annual Meetings, AARES, Port Macquarie, NSW, Australia, peer-reviewed/refereed.

January 9, 2014, "The Value Chain of Colorado Agriculture", Pueblo Chamber of Commerce, Pueblo, CO.

November 15, 2013, "Innovation in Colorado Agriculture: Looking Forward", CSU President's Agriculture Advisory Council, (Presenter) Graff, G. D., Rennels, K., CSU Denver Center, Denver, CO.

November 7, 2013, "The Value Chain of Colorado Agriculture", CSU Extension Forum, (Presenter) Graff, G. D., CSU, Lory Student Center, Fort Collins.

November 5, 2013, "The Value Chain of Colorado Agriculture", Greeley Chamber of Commerce, (Presenter) Graff, G. D., Greeley Chamber of Commerce, Greeley, CO.

October 28, 2013, "The Value Chain of Colorado Agriculture", University Economic Development Association (UEDA) Annual Meetings, (Presenter) Graff, G. D., Pittsburgh, PA, peer-reviewed/refereed.

October 23, 2013, "The Value Chain of Colorado Agriculture", Northwest Colorado Council of Governments (NWCCOG), Office of Economic Development and International Trade (OEDIT), (Presenter) Graff, G. D., Rennels, K., Dillon, CO.

September 19, 2013, "The Value Chain of Colorado Agriculture", Dept of Agricultural & Resource Economics Research Seminar, (Presenter) Graff, G. D., CSU.

September 19, 2013, "The Value Chain of Colorado Agriculture", Northern Colorado Economic Development Corp (NCEDC) and Upstate Colorado Economic Development Corp, Joint Meeting of Boards of Directors, NCEDC and Upstate Colorado, (Presenter) Graff, G. D., Loveland, CO.

September 9, 2013, "Policy Issues in Colorado Agriculture", Larimer County League of Women Voters, Larimer County League of Women Voters, (Presenter) Graff, G. D., Fort Collins, CO.

August 28, 2013, "Not Quite a Myriad of Gene Patents", Colorado Bioscience Association, (Presenter) Graff, G. D., Broomfield, CO, peer-reviewed/refereed.

August 23, 2013, "The Value Chain of Colorado Agriculture", BSPM Faculty Retreat, Dept of Bioagricultural Science & Pest Management, CSU, (Presenter) Graff, G. D., Rennels, K., Primrose Studio, Fort Collins, CO.

August 15, 2013, "The Value Chain of Colorado Agriculture", Arkansas Valley Regional Economic Development Association, Region 13 Blueprint Advisory Meeting, (Presenter) Graff, G. D., Rennels, K., Canon City, CO.

July 25, 2013, "The Value Chain of Colorado Agriculture", Northeastern Colorado Economic Development Association (NECO), (Presenter) Graff, G. D., Rennels, K., Fort Morgan, CO.

July 21, 2013, "Cultivating Innovation in the Agricultural Value Chain", Board of Directors of FCC Services Inc, FCC Services, (Presenter) Graff, G. D., Boulder, CO.

July 16, 2013, "The Value Chain of Colorado Agriculture", Board of Director of the Colorado River District, Colorado River District, (Presenter) Graff, G. D., Rennels, K., Hotel Denver, Glenwood Springs, CO.

June 27, 2013, "The Value Chain of Colorado Agriculture", Southern Colorado Economic Development Resource Network, (Presenter) Graff, G. D., Durango, CO.

June 21, 2013, "The Value Chain of Colorado Agriculture", Northern Colorado Business Assistance Consortium (NCBAC), Greeley Chamber of Commerce, (Presenter) Graff, G. D., Greeley Chamber of Commerce, Greeley, CO.

May 16, 2013, "The Value Chain of Colorado Agriculture", Colorado Innovation Network (COIN), Office of Economic Development and International Trade (OEDIT), (Presenter) Graff, G. D., Rennels, K., CSU.

May 15, 2013, "The Value Chain of Colorado Agriculture", President Tony Frank & Chancellor Mike Martin, (Presenter) Graff, G. D., Rennels, K., CSU, Administration Building.

May 8, 2013, "Not Quite a Myriad of Gene Patents", Dept of Agricultural & Resource Economics, (Presenter) Graff, G. D., CSU, peer-reviewed/refereed.

May 1, 2013, "The Value Chain of Colorado Agriculture", Colorado State Legislature Joint House and Senate Agriculture Committees, (Presenter) Graff, G. D., Rennels, K., State Capitol Building, Denver, CO.

April 23, 2013, "The Value Chain of Colorado Agriculture", Board of Directors of Colorado Livestock Association (CLA), (Presenter) Rennels, K., CSU, Lory Student Center, Fort Collins.

April 19, 2013, "The Value Chain of Colorado Agriculture", Colorado Agriculture Leadership Program (CALP), (Presenter) Rennels, K., Fort Morgan, CO.

April 10, 2013, "The Value Chain of Colorado Agriculture", CSU President's Agriculture Advisory Council, Colorado State University, (Presenter) Rennels, K., CSU Denver Center, Denver, CO.

April 2, 2013, "The Value Chain of Colorado Agriculture", Senator Michael Bennett's agricultural advisors, (Presenter) Rennels, K., CSU, Office of Engagement, Fort Collins.

March 29, 2013, "A first look at the INSTEPP Global Genetics Patent Database", Comparative Science, Technology, and Innovation Systems in Developing-Country Agriculture: An Expert Convening on Innovation Policies and Incentives, International Food Policy Research Institute (IFPRI), IFPRI, Washington, DC.

March 19, 2013, "The Value Chain of Colorado Agriculture", Office of Economic Development and International Trade (OEDIT), (Presenter) Rennels, K., Office of Economic Development and International Trade, Denver, CO.

March 15, 2013, "Not Quite a Myriad of Gene Patents", NC1034 "Agricultural Research" Regional Project Annual Conference, USDA, University of Arizona, peer-reviewed/refereed.

March 6, 2013, "The Value Chain of Colorado Agriculture", Commissioner John Salazar and the Colorado Department of Agriculture, (Presenter) Graff, G. D., Rennels, K., Colorado Department of Agriculture, Lakewood, CO.

2012, "Innovation in Agricultural Biotechnology: Implications for Biofuels, public presentation for the Colorado Bioscience Association, Rocky Mountain Innosphere, Fort Collins, March 7, 2012".

2012, "Managing University and Government IP in Emerging and Developing Economies, presentation at the National Academy for Agricultural Research Management,

Hyderabad, India, January 19, 2012."

2012, "The Agricultural Research and Development System in the US, invited lecture, Department of Economics and Management, Kazakh National Agricultural University, Almaty, Kazakhstan, April 26, 2012".

2012, "The Emergence of Agbiogenics: Implications for the Future of Crop Genetic Development, invited panel presentation, American Agricultural Law Association, Nashville, TN, October 20, 2012", peer-reviewed/refereed.

2012, "The political economy of intellectual property and regulatory policies in agricultural biotechnology: implications for public sector crop genetic development, presented at conference "Biotechnology in Indian Agriculture: Performance, Potential, and Concerns", Centre for Economic and Social Studies, Hyderabad, India, 17-18 January 2012".

2012, "The Value Chain of Colorado Agriculture, DARE Research Seminar, September 26 2012."

2012, "The Value Chain of Colorado Agriculture: A Preview, invited presentation to the President's Agricultural Advisory Council, Denver, October 10, 2012."

November 12, 2012, "Global patenting trends in the genetic sciences 1970-2010", Canadian Science Policy Conference, (Presenter) Graff, G. D., Calgary, AB, Canada, peer-reviewed/refereed.

2011, "Gregory D. Graff "How the 'IP-Regulatory' complex affects incentives for developing socially beneficial products from agricultural genomics," invited presentation for conference "Changing Goals of Governance for Agricultural Genomics: An Examination of Current Regulatory and Intellectual Property Regimes," University of British Columbia, November 17-18, 2011".

2011, "Gregory D. Graff "Sustainable Agriculture: Fad, Fiction, or the Future?" invited luncheon speaker, Loveland Rotary Club, March 22, 2011".

2011, "Gregory D. Graff "Why R&D efforts increasingly span traditional organizational boundaries" presentation for workshop DEVELOPING THE UNIVERSITY R&D PLATFORM at the 2011 CIP FORUM, University of Gothenberg and Chalmers Institute of Technology, Gothenberg, Sweden, May 28-June 1, 2011".

2011, "Gregory D. Graff and Brian D. Wright, "Structuring Public Private Research Alliances: Allocating Intellectual Property and Control Rights to Optimize Collaborative R&D in Bioenergy", NC-1034 conference BIOTECHNOLOGY, BIOENERGY, AND GLOBAL FOOD SECURITY, UC Berkeley, March 24-26, 2011".

2011, "Gregory D. Graff, "Patent Pending: the economics, law, and ethics of intellectual property rights in agricultural genetics," invited address for the M.E. John Seminar, Penn State University, April 15, 2011".

2011, "Gregory D. Graff, "Property rights in genetics: economic scope, legal mechanisms, and ethical objections" invited presentation for the Francis Bacon Conference MOLECULAR BIOLOGY AND INTELLECTUAL PROPERTY IN THE AGE OF BIOCAPITALISM, California Institute of Technology, Pasadena, CA, May 5-7, 2011".

2011, "Gregory D. Graff, "Universities must become strategic managers of intellectual property on behalf of the public good: the origins and evolution of PIPRA," invited presentation at Intellectual Property in the Agricultural Biotechnology Commercial World, VALGEN/Genome Canada, Banff, Alberta, January 20-21, 2011".

2011, "Gregory D. Graff, invited participant "The Future of Patent Data Workshop", UNITED STATES PATENT AND TRADEMARK OFFICE, Washington DC, June 17, 2011".

2011, "Gregory D. Graff, invited discussant for roundtable "GM genes getting off patents- anticipating the opportunities and biosafety challenges for developing

countries”, IFPRI, Washington DC, June 7, 2011.”.

2010, ""The Legal Context of University Intellectual Property and Technology Transfer" presented at CIP Seminar, MORE Division, Chalmers University of Technology, Gothenburg, Sweden, November 5, 2010".

2010, "Assessing Intellectual Property Risks in the Stem Cell Patent Landscape invited presentation to the 2010 Annual Meeting of the Scientific & Medical Accountability Standards Working Group, California Institute of Regenerative Medicine (CIRM), San Francisco, May 26, 2010.".

2010, "Developing a Technology Neutral Benefit-Pricing Policy to Stimulate Innovation in the Colorado Electricity Sector invited presentation at the Cynergy Clean Energy Expo, Colorado State University, April 19, 2010.".

2010, "Global Hunger, Sustainable Development, and Politics invited talk for Plymouth Congregational Church, Fort Collins, CO, January 29, 2010".

2010, "The Legal Context of University Intellectual Property and Technology Transfer presented at Association of University Technology Managers (AUTM) annual meetings, New Orleans, LA, March 19, 2010.".

2010, "What is Sustainability According to Economists?: Considerations for Agriculture, invited presentation to the Farm Foundation Round Table, Winnipeg, Manitoba, June 3, 2010.".

TEACHING:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>
2015	Fall	AREC795 - Independent Study	18	1
2015	Spring	AREC705 - Advanced Production and Technological Change	2	4
2015	Spring	AREC495 - Independent Study	6	4
2015	Spring	AGRI270 - World Interdependence-Population and Food (GT-SS3)	3	38
2015	Spring	IE270 - World Interdependence-Population and Food (GT-SS3)	3	50

2014	Fall	AREC478 - Agricultural Policy	3	36
2014	Fall	ECOL799 - Dissertation	18	23
2014	Spring	AREC478 - Agricultural Policy	3	40
2014	Spring	AREC799 - Dissertation	18	12
2014	Spring	ECOL799 - Dissertation	18	29
2014	Spring	AREC495 - Independent Study	6	2
2014	Spring	AGRI270 - World Interdependence-Population and Food (GT-SS3)	3	35
2014	Spring	IE270 - World Interdependence-Population and Food (GT-SS3)	3	54
2013	Fall	AREC478 - Agricultural Policy	3	33
2013	Fall	ECOL799 - Dissertation	18	27
2013	Fall	AREC695 - Independent Study	18	2
2013	Spring	AREC799 - Dissertation	18	11
2013	Spring	ECOL799 - Dissertation	18	26
2013	Spring	AREC695 - Independent Study	18	3
2013	Spring	AREC795 - Independent Study	18	1
2013	Spring	AREC487 - Internship	18	5
2013	Spring	AREC792B - Seminar-International	18	7
2013	Spring	AREC484 - Supervised College Teaching	5	4
2013	Spring	AGRI270 - World Interdependence-Population and Food (GT-SS3)	3	33
2013	Spring	IE270 - World Interdependence-Population and Food (GT-SS3)	3	53
2012	Fall	AREC478 - Agricultural Policy	3	33
2012	Fall	ECOL799 - Dissertation	18	26
2012	Fall	ECOL592 - Interdisciplinary Seminar in Ecology	3	7
2012	Fall	AREC487 - Internship	18	8
2012	Summer	ECOL799 - Dissertation	18	3
2012	Summer	AREC487 - Internship	18	5
2012	Spring	AREC799 - Dissertation	18	4
2012	Spring	ECOL799 - Dissertation	18	19
2012	Spring	AREC695 - Independent Study	18	2
2012	Spring	AREC795 - Independent Study	18	1
2012	Spring	AGRI270 - World Interdependence-Population and Food (GT-SS3)	3	34
2012	Spring	IE270 - World Interdependence-Population and Food (GT-SS3)	3	47
2011	Fall	AREC478 - Agricultural Policy	3	31
2011	Fall	AREC799 - Dissertation	18	4
2011	Fall	ECOL799 - Dissertation	18	18
2011	Fall	AREC699 - Thesis	18	10
2011	Summer	AREC699 - Thesis	18	2
2011	Spring	AREC566 - Contemporary Issues in Developing Countries	3	11
2011	Spring	AREC581A2 - Sustainable Technology Entrepreneurship	3	2
2011	Spring	AREC699 - Thesis	18	12
2011	Spring	AGRI270 - World Interdependence-Population and Food (GT-SS3)	3	34
2011	Spring	IE270 - World Interdependence-Population and Food (GT-SS3)	3	49
2010	Fall	AREC478 - Agricultural Policy	3	30
2010	Fall	AREC799 - Dissertation	18	6
2010	Fall	AREC792A - Seminar-Agricultural	18	6
2010	Summer	AREC487 - Internship	18	6
2010	Spring	AREC478 - Agricultural Policy	3	34

2010	Spring	AREC495 - Independent Study	18	7
2010	Spring	AREC581A2 - Sustainable Technology Entrepreneurship	3	13
2010	Spring	MECH581A2 - Sustainable Technology Entrepreneurship	3	21
2010	Spring	AREC699 - Thesis	18	11
2010	Spring	AGRI270 - World Interdependence-Population and Food (GT-SS3)	3	34
2010	Spring	IE270 - World Interdependence-Population and Food (GT-SS3)	3	55
2009	Fall	AREC478 - Agricultural Policy	3	34
2009	Fall	AREC799 - Dissertation	18	6
2009	Spring	AREC478 - Agricultural Policy	3	37
2009	Spring	AGRI270 - World Interdependence-Population and Food (GT-SS3)	3	35
2009	Spring	IE270 - World Interdependence-Population and Food (GT-SS3)	3	36
2008	Fall	AREC799 - Dissertation	18	11
2008	Fall	AREC695 - Independent Study	18	1
2008	Spring	AREC478 - Agricultural Policy	3	35

Guest Lectures:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u># of Guest Lectures</u>	<u>Delivery Mode</u>
2014	Fall	AREC341 - Environmental Economics	1	Face to Face
2014	Fall	FSHN500 - Food Systems, Nutrition, and Food Security	1	Face to Face
2014	Fall	SOCR424 - Topics in Organic Agriculture	1	Face to Face

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Association of University Technology Managers (AUTM). (2002 - Present).

American Agricultural Economics Association (AAEA). (2000 - Present).

NPR. (March 26, 2015).

CoBiz. (February 1, 2015).

InnovationNews. (November 24, 2014).

The Fencepost. (November 24, 2014).

Bloomberg Business. (November 20, 2014).

Greeley Tribune. (November 19, 2014).

The Burrill Report. (July 1, 2013).

Motherboard. (June 19, 2013).

WHO, Des Moines NBC affiliate. (June 17, 2013).

Phys.org blog. (June 14, 2013).

New York Times. (June 14, 2013).

Australian Broadcasting Corp (ABC). (June 14, 2013).

Bloomberg. (June 13, 2013).

Money News. (June 13, 2013).

New Scientist. (June 13, 2013).

Reuters. (June 13, 2013).

Reuters. (June 13, 2013).

Patent Docs blog. (June 4, 2013).

Boston Globe. (June 4, 2013).

Nature Biotechnology. (June 1, 2013).

Financial Times. (May 28, 2013).

Chalmers Institute of Technology, Gothenberg, CO. (2012 - Present).

Member, Graduate admissions committee. (2012 - Present).

Agricultural and Resource Economics Review. (2011 - Present).

Journal of Agricultural and Applied Economics. (2011 - Present).

Journal of International Development. (2011 - Present).

American Journal of Agricultural Economics. (2010 - Present).

Journal of Agricultural Economics. (2010 - Present).

Reviewer, Ad Hoc Reviewer, National Collegiate Inventors and Innovators Assn. (2010 - Present).

Reviewer, Ad Hoc Reviewer, NSF. (2010 - Present).

Member, Association of University Technology Managers (AUTM). (2002 - Present).

Member, American Agricultural Economics Association (AAEA). (2000 - Present).

Member, PhD prelim committee. (2012 - 2013).

Member, national review research committee. (2012).

Member, PhD curriculum reform advisory committee. (2012).

Member, search committee. (2012).

Interview for news article "Dismay, Confusion Greet Human Stem Cell Patent Ban," Science, 28 October 2011, pg 441. (2011).

Member, Biofuels position search committee. (2010 - 2011).

Committee Chair, Awards Committee. (2009 - 2011).

Member, Undergraduate Curriculum Committee. (2008 - 2011).

OTHER ACTIVITIES/ACCOMPLISHMENTS – SERVICE/OUTREACH

Non-Governmental Organization (NGO), IFPRI, Washington, DC. (May 1, 2013 - Present).

Center for Sustainable Enterprise. (2012 - Present).
