

Department of Agricultural Economics & Economics
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Education:

- **M.S., Applied Economics**, Montana State University, Bozeman, MT (2006).
 - Thesis: “*Redlining in Montana*”
- **B.S., Business**, Montana State University, Bozeman, MT (2000).
 - Economics Minor

Current Position:

- **Extension Economics Associate Specialist**, Department of Agricultural Economics and Economics, Montana State University Extension, Bozeman, MT. (2006 to present)

Employment History:

- Extension Economics Associate Specialist, Department of Agricultural Economics and Economics, Montana State University Extension, Bozeman, MT (2006-Present).
- Graduate Teaching/Research Assistant, Department of Agricultural Economics and Economics, Montana State University, Bozeman, MT. (2004-2006)
- Pension Analyst, REPTECH Corp., Englewood, CO. (2003-2004)
- Associate Pension Analyst, REPTECH Corp., Englewood, CO. (2001-2003)
- Assistant Pension Analyst, REPTECH Corp., Englewood, CO. (2001)
- Investor Service Representative, Janus Service Corp., Denver, CO. (2000-2001)

Extension and Outreach Publications:

- Schumacher, Joel B. “Series of 5 Biodiesel Fact Sheets.” Exploring Energy Efficiency & Alternatives Project (October, 2011).
- Hamlen, Sarah, Joel B. Schumacher “Key Questions to Ask Regarding Small Wind Turbine Economic Calculations.” MontGuide (January, 2011)
- Schumacher, Joel B., Sarah Hamlen “Interconnecting Renewable Electrical Energy Generators: Net Metering in Montana.” MontGuide (September, 2010)
- Schumacher, Joel B., Marsha A. Goetting “Settling an Estate: What Do I Need to Know?” MontGuide (July, 2010)
- McKee, Gregory, Gary W. Brester, Joel B. Schumacher “Evaluating the effect of state ethanol production subsidies in the upper great plains.” Agricultural Marketing Resource Center Renewable Energy Newsletter (April, 2010)
- McKee, Gregory, Gary W. Brester, Joel B. Schumacher “Ethanol Production in the Upper Great Plains.” Agricultural Marketing Resource Center Renewable Energy Newsletter (April, 2010)

- Schumacher, Joel B., Marsha A. Goetting “Individual Retirement Accounts.” MontGuide (August, 2009).
- Schumacher, Joel B., Marsha A. Goetting “Shopping for an Individual Retirement Account.” MontGuide (July, 2009).
- Arthun, Cole, Joel Schumacher “Net Metering in Montana.” Agricultural Marketing Policy Center Briefing Paper (May, 2009)
- Arthun, Cole, Joel Schumacher “Wind Energy Subsidies and Programs.” Agricultural Marketing Policy Center Briefing Paper (October, 2008).
- Schumacher, Joel B., Marsha A. Goetting “Selecting an Organizational Structure for Your Business.” MontGuide (June, 2008)
- Schumacher, Joel “Feedstock Requirements for a Large Scale 100 Million Gallon Biodiesel Production Facilities in Montana.” Agricultural Marketing Policy Center Briefing Paper (December, 2007).
- Schumacher, Joel “Commercial Biodiesel Production in Montana.” Agricultural Marketing Policy Center Briefing Paper (September, 2007).
- Goetting, Marsha A., Joel Schumacher “Developing a Spending Plan.” MontGuide (September, 2007).
- Schumacher, Joel “Biodiesel: Frequently Asked Questions.” Agricultural Marketing Policy Center Briefing Paper (August, 2007).
- Schumacher, Joel, Patricia Q. Brennan, Marsha A. Goetting. “Health Savings Accounts.” MontGuide (August, 2007).
- Schumacher, Joel “Small Scale Biodiesel Production: An Overview.” Agricultural Marketing Policy Center Policy Paper (May, 2007).
- Schumacher, Joel “Oilseed Processing: An Overview.” Agricultural Marketing Policy Center Briefing Paper (May, 2007).
- Schumacher, Joel “Large Scale Oilseed Processing.” Agricultural Marketing Policy Center Briefing Paper (May, 2007).
- Schumacher, Joel “Small Scale Oilseed Processing.” Agricultural Marketing Policy Center Briefing Paper (May, 2007).
- Goetting, Marsha A., Joel Schumacher “Lending Money to Family Members.” MontGuide (February, 2007).
- Goetting, Marsha A., Nancy Clark, Marcie Tomas, Joel Schumacher “Medicaid and Long-Term Care Costs.” MontGuide (January, 2007).
- Schumacher, Joel “Montana Oilseed Markets: Historical Price and Production Statistics.” Agricultural Marketing Policy Center Policy Paper (November, 2006).
- Hewlett, John, Joel Schumacher, James B. Johnson, and Gary W. Brester “GRP Rangeland Insurance for Wyoming.” Agricultural Marketing Policy Paper (October, 2006).
- Schumacher, Joel, Gary W. Brester, James B. Johnson “GRP Rangeland Insurance for Montana.” Agricultural Marketing Policy Center Policy Paper (October, 2006).
- Schumacher, Joel “Oilseed, Biodiesel and Ethanol Subsidies & Renewable Energy Mandates: US Federal & Selected State Initiatives.” Agricultural Marketing Policy Center Policy Paper (September, 2006).
- Goetting, Marsha A., Joel Schumacher “The Federal Estate Tax.” MontGuide (July, 2006).
- Goetting, Marsha A., Joel Schumacher “Gifting: A Property Transfer Tool of Estate Planning.” MontGuide (July, 2006).
- Schumacher, Joel, Marsha A. Goetting “Life Estate: A Useful Estate Planning Tool.” MontGuide (November, 2005).

- Schumacher, Joel, Marsha A. Goetting “Transferring Farm or Ranch Property to the Next Generation Through a QTIP Trust.” MontGuide (November, 2005).
- Schumacher, Joel, Marsha A. Goetting “Using a Bypass Trust to Provide for Children from Prior Marriage.” MontGuide (November, 2005).
- Goetting, Marsha A., Joel Schumacher. “Investing In Certificates.” MontGuide (October, 2005).

Decision Making Software:

- Schumacher, Joel, Marsha A. Goetting “Saving to Achieve Goals.” Excel Based Program (October, 2008).
- Schumacher, Joel “Biodiesel Cash Flow Worksheet.” Excel Based Program (November, 2008).
- Schumacher, Joel “Oilseed Processing Cash Flow Worksheet.” Excel Based Program (November, 2008).
- Schumacher, Joel “Oilseed & Biodiesel Cash Flow Worksheet.” Excel Based Program (April, 2008).

Teaching Case Studies:

- Brester, Gary, Joel Schumacher, Cole Arthun “Growing a Career on a Small Family Farm: Supplying biodiesel producers in Montana’s Flathead Valley.” Agricultural Marketing Resource Center (November, 2008).
- Brester, Gary, Joel Schumacher, Cole Arthun “Sustaining a ‘Home’ on the Range: Alternative fuel usage on the Rocking Z Ranch.” Agricultural Marketing Resource Center (November, 2008).
- Brester, Gary, Joel Schumacher, Cole Arthun “Small Farm Profitability Case Study: Is the Answer Blowing in the Wind?” Agricultural Marketing Resource Center (November, 2008).
- Schumacher, Joel, Gary Brester, Mike Boland “The Flathead Electric Cooperative: What is the Price of Green?” (May, 2011).

Conferences Organized:

- Biofuels: Boom or Bust for Montana Producers (November, 2007)
 - Lead Organizer of this conference to address the impact of biofuels on Montana Agriculture
 - Over 15 speakers from MSU(6), Purdue (1), NCAT (1), Earl-Fisher Biofuels (2), MSU Experiment Stations (3), National Carbon Offset Coalition (1), MT Dept. of Agriculture (1), Miles Community College (1), MT Dept. of Environmental Quality (1), MT Dept. of Transportation (1), MSU-Northern (1)
 - Attendance: Approximately 75
- Agriculture Outlook 2008: Farm Bill, Wind Energy & Climate Change (November, 2008)
 - Lead Organizer of this conference which focused on new developments in Montana Agriculture
 - 10 Speakers & Industry Panel (MT Farm Bureau, MT Farmer’s Union, MT Grain Growers Association, MT Stock Growers Association)
 - Attendance: Approximately 70
- Montana’s Rural Economy: The Future of Agriculture and Rural Healthcare (November, 2009)
 - Lead Organizer of this conference which focused on traditional agricultural issues as well as the implications of rural health care on the ag. industry

- 10 Speakers (including Sen. Max Baucus) & Industry Panel
 - Attendance: Approximately 70
- Tribal Wind Energy Conference (April, 2009)
 - Co-Organized (with Carrie Sue Archdale of Fort Peck Community College) this conference which explored the opportunities and challenges of wind turbine development on Indian Lands.
 - Speakers from National Renewable Energy Lab, Montana Electric Cooperatives' Association, Northwest Sustainable Energy for Economic Development, Intertribal Council on Utility Policy, National Center for Appropriate Technology, Fort Peck Energy Department, Fort Peck Tribal Council
 - Attendance: Approximately 30
- Agriculture and Energy in Montana (November, 2010)
 - Lead organizer of this conference which examined traditional agriculture issues and interface between agriculture and energy
 - 13 speakers
 - Attendance: Approximately 110
- Montana Agriculture in Volatile Times (October 2011)
 - Lead organizer of the conference which examined the role of volatility and Montana agriculture
 - 8 speakers
 - Attendance: Approximately 135

Selected Presentations:

2011

- Speaker, Association of Financial Counseling, Planning & Education Annual Conference (November, 2011)
 - “Building Partnerships and Using Technology to provide workplace Financial Education”
- Panel Member, Young Agriculture Leadership Conference (October, 2011)
 - “Transferring Family Operations to the Next Generation”
- Speaker (and Co-Organizer), Solid Finances Webinar Series (Fall 2011-Spring 2012)
 - 16 Sessions on Money Management, Investments, Retirement & Estate Planning
- Speaker, Montana Council on Economic Education Teacher Workshop (June, 2012)
 - “Ethanol & Petroleum: Substitute or Complementary Goods”

2010

- Speaker, Northern Montana Agricultural Research Center Field Day (June, 2010)
 - “Economics of Composting Manure”
- Speaker, Pacific Northwest Regional Economic Conference (PNREC) (May 2010)
 - “Estimating the On-Farm Demand for Small Scale Wind Turbines in the Pacific Northwest”
- Speaker, Jim Schumacher Memorial Livestock Day (January, 2010)
 - “Grain and Livestock Outlook”
- Speaker (and co-organizer), Horizon Alumni Financial Facilitator Workshop (April, 2010)
 - “Investing Basics & Resources Available in your Community”
- Speaker (and co-organizer), Solid Finances in Shaky Economic Times Series, (September, 2009 to April, 2010)
 - 8 Sessions: “Retirement Planning for Younger Workers,” “Mutual Funds 101,” “Mortgages 101,” “What should I do with an extra \$50 each month,”

“Introduction to the World of Investments,” “Supplemental Retirement Options at MSU,” “Asset Allocation,” “Researching and Selecting Mutual Funds.”

2009

- Speaker, Montana Wool Growers Association Annual Meeting (December, 2009)
 - “Specialty Marketing: An Economists Point of View”
- Speaker, Bio-Energy Workshop Series hosted by MSU-Northern (September, 2009)
 - “Economics of Oilseed Processing in Montana”
- Speaker, Sugar Symposium (January, 2009)
 - “Biofuels: Where are we going?”
- Speaker, MSU President Gamble’s Advisory Council Meeting (October, 2008)
 - “MSU Extension & Biofuels”
- Speaker, Harvesting Clean Energy Conference (January, 2009)
 - “Economics of Oilseed Processing: What new?”
- Speaker, Advanced Oilseed & Biodiesel Production Workshops, (January, 2009)
 - “Economics of Small Scale Oilseed Processing and Biodiesel Production.”

2008

- Speaker, ECON 480: Economics the 2008 Presidential Election, (October, 2008)
 - “Energy Policy Issues”
- Speaker, Developer & Organizer “Entrepreneurship Education for Successful Biodiesel Workshop.” (2007-2008)
 - 4-hour workshops offered in 15 locations
 - “Energy Overview”, “Montana Agriculture & Oilseeds”, “Oilseed Processing and Biodiesel Production Technologies”, “Economics of Oilseed Processing and Biodiesel Production”
- Speaker, Regional FFA Contest (March, 2009)
 - “Camelina Press Conference”
- Speaker, Sidney Winter Agriculture Days (January, 2008)
 - “US Energy Markets: What Role Will Biofuels Play?”

2007

- Speaker, Forestry and Agriculture Greenhouse Gas Modeling Forum (March, 2007)
 - “Demand for Small Scale Bio-Energy Technology: Opportunities for Agriculture & Energy Policy Integration”
- Speaker, Farmer’s Biodiesel Production Workshop (January, 2007)
 - “Oilseed Processing: An Overview of Available Technologies”
- Speaker, Crop and Pest Management School, (January, 2007)
 - “Small Scale Bio-Fuel Production: Identifying the Major Issues”

2006

- Guest Speaker, ECON 480 (November, 2006)
 - “Oilseed Production, Processing and Biofuels in Montana”
- Speaker, Montana Grain Growers Association Annual Meeting, (November, 2006)
 - “Bio-Based Fuels: Financing, Tax Credits, Production and Marketing”

Grants Awarded:

- Boothe, Janelle, Joel Schumacher, Paul Lachapelle, “E-Commerce In Montana.” Granting Agency: National E-Commerce Extension Initiative (Part of the Southern Regional Economic Development Center), 2011-2012, \$2,984.
- Smith, Vincent, Duane Griffith, Joel Schumacher, “Conservation Reserve Program Enrollment Decision in the American Indian Farm Plan” Granting Agency: Fort Peck Community College 2011-2013, \$77,000.

- Schumacher, Joel “Financial Education in Montana.” Granting Agencies: FINRA & United Way Worldwide, 2011-2012, \$31,125.
- Schumacher, Joel “Analysis of Wind Fin Small Scale Wind Turbine,“ Granting Agency: Wind Innovations LLC (sub-contract from USDA SBIR Grant to Wind-Pro), 2009, \$10,000.
- Bass, Thomas, Joel Schumacher, Darrin Boss, “Composting Recommendations and Marketing Evaluation for Livestock Operations in Cold Semi-Arid Environments.” Granting Agency: Western SARE, 2009-2010, \$49,315.
- Smith, Vincent, Duane Griffith, Joel Schumacher, “Sequestration and Carbon Credits in the American Indian Farm Plan” Granting Agency: Fort Peck Community College 2009-2011, \$65,320

Other Projects:

- Panel Member on “Sustainable Agriculture Spotlight” (July, 2009)
 - Topic “Biodiesel---Small Scale Production Economics”
 - Sustainable Agriculture Spotlight is a week program hosted by Jeff Birkby on *The Green Talk Network*
- Featured Guest “Face the State” TV Program (October, 2008)
 - Topic: “Biofuels and Montana Agriculture”
 - Face the State is a 30 minutes current events program that features an interview with one guest each Sunday morning. The program is carried state wide on Montana CBS stations.
- Reviewer, National Center for Appropriate Technology’s “Oilseed for Fuel, Feed and Future innovation Grants” (February, 2007)
- Technical Reviewer, North Dakota Industrial Commission’s “Renewable Energy Program” (June 2010)
- Reviewer, Federal Reserve Bank of Minneapolis “High School Essay Contest” (March-April, 2009)
- Committee Member, Freeways to Fuel National Alliance Executive Committee
 - August, 2008 to August, 2010
- Board Member, National Extension E-Commerce Initiative Advisory Board
 - Appointed July 2010
 - Reviewer of NEEI Mini-Grant Program