CURRICULUM VITAE

University of Idaho

NAME: Lowry, Michael (Mike) DATE: 4 June 2014

RANK OR TITLE: Assistant Professor

DEPARTMENT: Department of Civil Engineering, College of Engineering

Bioregional Planning Program, College of Art and Architecture

OFFICE LOCATION: Engineering Physics Building EP 115 **OFFICE PHONE:** (208) 885-0139

MAILING ADDRESS: University of Idaho FAX: (208) 885-6608

875 Perimeter Drive MS 1022 **EMAIL:** mlowry@uidaho.edu Moscow ID 83844-1022 **WEB:** www.uidaho.edu/~mlowry

DATE OF FIRST EMPLOYMENT AT UI: January 2009

DATE OF TENURE: Untenured

DATE OF PRESENT RANK OR TITLE: January 2009

EDUCATION:

Degrees:

Ph.D., University of Washington, Seattle, WA, December 2008, Civil and Environmental Engineering MS, Brigham Young University, Provo, UT, June 2004, Civil and Environmental Engineering BS, Brigham Young University, Provo, UT, June 2002, Civil and Environmental Engineering

Certificates and Licenses:

Professional Engineer (PE)

Professional Transportation Planner (PTP)

EXPERIENCE:

Current Teaching and Research Appointments:

Assistant Professor, Civil Engineering, University of Idaho, Moscow, ID, January 2009 – present Assistant Professor, Bioregional Planning, University of Idaho, Moscow, ID, January 2009 – present Research Faculty, National Institute for Advanced Transportation Technology (NIATT), Jan. 2009 – present

Past Teaching and Research Appointments:

Visiting Research Assistant, Institute of Transport Economics, Oslo, Norway, October 2007 – October 2008 Research Scholar, University of Liverpool, Liverpool, United Kingdom, June 2008 Instructor, University of Washington, Seattle, WA, January 2005 – May 2005

Non-Academic Employment:

Project Engineer, *Prime Interiors International*, Accra, Ghana, Africa, August 2002 – December 2002 -Supervised steel stud and dry wall installation for a multimillion dollar building.

Land Surveyor and Data Analyst, *Burns and McDonnell*, Chicago, IL, Jun 2001 – August 2001 -Conducted land surveying and analyzed soil pollutants at oil and gas contamination sites.

Trip Manager and River Guide, *World Wide River Expeditions*, Moab, UT, Jun 1999 – August 2000 -Supervised 6-day multi-family river trips on the Salmon River in Idaho and Colorado River in Utah.

Consulting:

Michael Lowry Engineering and Planning, Moscow, ID, October 2011 – present -Miscellaneous consulting work related to transportation engineering and planning.

TEACHING ACCOMPLISHMENTS:

Areas of Specialization:

Transportation Planning, Transportation Improvement Programming, Bicycle and Pedestrian Planning, Street Design, Public Involvement, Quantitative Planning Methods, Geographic Information Systems, and Economic Analysis

Courses Taught:

Engineering Economy, ENGR 360, ~50 undergraduate students, Fall 2009, Spring 2010, Fall 2010, Spring 2011, Fall 2011, Spring 2012, Fall 2012, Spring 2013, Fall 2013, Spring 2014

Probability and Statistics, STAT 301, ~100 undergraduate students, Fall 2013

Civil Engineering Senior Seminar, CE 491, ~20 undergraduate students, Fall 2009

Sustainable Transportation and Community Design, CE 504, ~12 graduate students, Fall 2010

Transportation Planning, CE 573, ~12 graduate students, Spring 2009, Spring 2012, Spring 2014

Planning Methods, BIOP 522, ~15 graduate students, Fall 2010, Fall 2012

Traffic Engineering, CEE410 (University of Washington) ~30 undergraduate students, Winter 2007

Students Advised:

Undergraduate Students: 20-30 students per year

Graduate Students Advised to Completion of Degree as Major Professor:

Becky Couch, MS Bioregional Planning, Spring 2014
Seth Cool, MS Bioregional Planning, Spring 2014
Stephen McDaniel, MS Civil Engineering, Spring 2013
Aaron Buckley, MS Bioregional Planning, Summer 2012
Daniel Callister, MS Bioregional Planning, Spring 2012
John Hawkins, MS Bioregional Planning, Spring 2012
Kevin Kingsbury, MS Civil Engineering, Spring 2011

Graduate Students Advising Currently as Major Professor:

Bradford Tower, MS Civil Engineering, Anticipated Fall 2014 John Hawkins, MS Civil Engineering, Anticipated Spring 2015

Served on Graduate Thesis Committee:

Greg Reince, MS Civil Engineering, Fall 2013 Maria Tribelhorn, MS Civil Engineering, Spring 2013 Joe Sonnen, MS Civil Engineering, Spring 2012 Thomas Ulrich, MS Psychology, Fall 2011 Monica Walker, MS Bioregional Planning, Summer 2011 Nicholas Cottrell, MS Psychology, Spring 2011 Genevieve Gerke, MS Bioregional Planning, Spring 2011

Courses Developed:

Sustainable Transportation and Community Design, CE 504 Planning Methods, BIOP 504 (now BIOP 522)

Non-credit Classes, Workshops, Seminars, Invited Lectures, etc.:

Engineering Fundamentals, CE 411, invited lecture every semester 2009-present Fundamentals of Transportation Engineering, CE 372, invited lecture 2010, 2011, 2012, 2013, 2014 Urban Morphology, Arch 582, invited lecture 2011 Architectural Design, Arch 354, invited lecture 2010, 2011 Health and Community Development, PEP 532, invited lecture 2010, 2013

SCHOLARSHIP ACCOMPLISHMENTS:

Publications and Presentations:

(* denotes University of Idaho student research assistant)

Refereed Journal Publications:

- *McDaniel, S., **Lowry**, **M.**, and Dixon, M. (In press). "Using Origin-Destination Centrality to Estimate Directional Bicycle Volumes." *Transportation Research Record: Journal of the Transportation Research Board*, Scheduled publication 2014.
- **Lowry, M.** (2014). "Spatial interpolation of traffic counts based on origin-destination centrality" *Journal of Transport Geography*, 36, pp. 98-105.
- Lowry, J. and **Lowry, M.** (2014). "Comparing Spatial Metrics that Quantify Urban Form" *Computers, Environment and Urban Systems*, 44, pp. 59-67.
- *Buckley, A., **Lowry, M.**, Brown, H., and Barton, B. (2013). "Evaluating Safe Routes to School Events that Designate a Day for Walking and Bicycling." *Transport Policy*, 30, pp. 294-300.
- *Callister, D. and **Lowry, M.** (2013). "Tools and Strategies for Wide-scale Bicycle Level of Service Analysis." *ASCE Journal of Urban Planning and Development*, Vol. 139, No.4, pp. 1-8.
- **Lowry, M.**, *Callister, D., Gresham, M. and *Moore, B. (2012). "Assessment of Communitywide Bikeability with Bicycle Level of Service." *Transportation Research Record: Journal of the Transportation Research Board*, 2314, pp. 41-48.
- *Kingsbury, K., **Lowry**, **M.**, and Dixon, M. (2011). "What Makes a "Complete Street" Complete? A Robust Definition, Given Context and Public Input." *Transportation Research Record: Journal of the Transportation Research Board*, 2245, pp. 103-110.
- **Lowry, M.**, Laninga, T., *Zimmerman, M., and *Kingsbury, K. (2011). "Using Traffic Simulation Software to Manage Recreational River Boats on Public Lands." *Transportation Research Record: Journal of the Transportation Research Board*, 2244, pp. 107-115.
- **Lowry, M.** (2010). "Using optimization to program projects in the era of communicative rationality." *Transport Policy*, 17(2), pp. 94-101.
- **Lowry, M.** (2010). "Online public deliberation for a regional transportation improvement decision." *Transportation*, 37(1), pp. 39-58.
- **Lowry, M.** and Balling, R. (2009). "An approach to land-use and transportation planning that facilitates city and region cooperation." *Environment and Planning B: Planning and Design*, 36(3), pp. 487 504.
- Zhong, T., Young, R. K., **Lowry, M.**, and Rutherford, G. S. (2008). "A model for public involvement in transportation improvement programming using participatory Geographic Information Systems." *Computers, Environment and Urban Systems*, 32(2), pp. 123-133.
- **Lowry, M.**, Nyerges, T., and Rutherford, G. (2008). "Internet Portal for Participation of Large Groups in Transportation Programming Decisions." *Transportation Research Record: Journal of the Transportation Research Board*, 2077, pp. 156-165.
- Young, R., Zhong, T., Lowry, M., Rutherford, G. S., and Nyerges, T. (2007). "An Analytic-Deliberative Online Framework for Transportation Programming." *The International Journal of Technology, Knowledge and Society*, 3(2), pp. 87-98.
- Balling, R., **Lowry, M.**, and Saito, M. (2003). "Regional Land Use and Transportation Planning with a Genetic Algorithm." *Transportation Research Record: Journal of the Transportation Research Board*, 1831, pp. 210-218.

Refereed Journals, Recently Submitted or Currently Scheduled:

*Cool, S. and **Lowry, M.** (Under review). "Quantifying dangerous situation exposure for bicyclists" Submitted to *Accident Analysis and Prevention*, June 2014.

Refereed Conference Presentations and Publications in Conference Proceedings:

- **Lowry**, **M.**, (with Claybrooke, C., Comeau, C., and Cool, S.) (2014). "Transforming an auto-oriented transportation legacy into a multi-modal and bicycle friendly system" Presented at the 2014 American Planning Association Washington Annual Conference, Spokane, Washington.
- **Lowry, M.**, (with Brozen, M., Petritsch, T.) (2014). "How to get an "A": Understanding the Highway Capacity Manual's Bicycle and Pedestrian Level of Service Measures" Presented at the 2014 Pro Walk Pro Bike Conference, Pittsburg, Pennsylvania.
- **Lowry, M.**, (with Loh, T., Laughlin, K., and Lindsey, G.) (2014). "The Trail Modeling and Assessment Platform (T-MAP): Building New Tools for Trail Development" Presented at the Active Living Research Annual Conference, San Diego, California.
- **Lowry, M.** (2014). "Estimating Annual Average Daily Traffic Across Small Cities Based on Network Centrality." Presented at the 93rd Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C.
- Dixon, M. (with **Lowry, M.**,*Cook, R. and *Kirby, W.) (2014). "Effective Turning Movement Volume Estimation for Intersection Analysis Using Gauss-Jordan Elimination" Presented at the 93rd Annual Meeting of the Transportation Research Board, Washington, D.C.
- Lowry, M. (with *McDaniel, S. and Dixon, M.) (2014). "Origin-Destination Centrality to Estimate Directional Bicycle Volumes." Presented at the 93rd Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C. Full paper published in *Transportation Research Board 93rd Annual Meeting Compendium of Papers*. Transportation Research Board, Washington, D.C.
- **Lowry, M.** (with *Callister, D.) (2014). "Tools and Strategies for Wide-scale Bicycle Level of Service Analysis." Presented at the 93rd Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C.
- **Lowry, M.**, (with *McDaniel, S. and Dixon, M.) (2013). "New GIS Tools to Estimate Bicycle Volumes Based on Street Connectivity." Presented at the International Bicycle Urbanism Symposium, Seattle, Washington.
- Paul, D. (with Cook, P., Hollenhorst, S., and **Lowry**, **M**.) (2013). "Factors influencing the active commuting behaviors of US Department of the Interior employees." Presented at the 141st Annual Meeting of the American Public Health Association, Boston.
- **Lowry, M.** (with *Buckley, A., Brown, H., and Barton, B.) (2013). "Case Study of Safe Routes to School Special Encouragement Events" Presented at the 92nd Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C.
- Brown, H. (with **Lowry, M.**, *Buckley, A., Goc Karp, G., and *Rouse, E.) (2012). "iCount, A Tool Kit for Community Based Documentation of Bicycle and Pedestrian Environments and Behaviors." Presented at the 140th Annual Meeting of the American Public Health Association, San Francisco.
- Cook, P. (with **Lowry**, **M**., Hollenhorst, S., and Cesnik, C.) (2012). "Strategies to Reduce Greenhouse Gas Emissions from Employees of the U.S. Department of the Interior." Presented at the 91st Annual Meeting of the Transportation Research Board, Washington, D.C. Full paper published in *Transportation Research Board 91st Annual Meeting Compendium of Papers*. Transportation Research Board, National Research Council, Washington, D.C.
- **Lowry, M.** (with *Callister, D., Gresham, M. and *Moore, B.) (2012). "Using Bicycle Level of Service to Assess Community-wide Bikeability." Presented at the 91st Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C. Full paper published in *Transportation Research Board 91st Annual Meeting Compendium of Papers*. Transportation Research Board, Washington, D.C.
- **Lowry, M.** (with Lowry, B. and Brown, H.) (2011) "GIS Tools to Help Allocate Infrastructure Funds." Presented at the 3rd Safe Routes to School National Conference, Minneapolis, Minnesota.

- **Lowry, M.** (with Lowry, B., Brown, H., and Goc Karp, G.) (2011) "Achieving Safe Routes to School Goals Through University Service Learning Projects." Presented at the 3rd Safe Routes to School National Conference, Minneapolis, Minnesota.
- **Lowry, M.** (with Dixon, M.) (2011) "What Makes a "Complete Street" Complete? A Robust Definition Based on Context and Public Input." Presented at the 90th Annual Meeting of the Transportation Board. Washington, D.C. Full paper published in *Transportation Research Board 90th Annual Meeting Compendium of Papers*. Transportation Research Board, National Research Council, Washington, D.C.
- Lowry, M., (with Laninga, T., *Zimmerman, M., and *Kingsbury, K.) (2011). "Using Traffic Simulation Software to Manage Recreational River Boats on Public Lands." Presented at the 90th Annual Meeting of the Transportation Board. Washington, D.C. Full paper published in *Transportation Research Board 90th Annual Meeting Compendium of Papers*. Transportation Research Board, National Research Council, Washington, D.C.
- **Lowry, M.** (with Dixon, M.). (2010) "A context-sensitive approach to complete street assessment." Presented at the Transportation Systems for Livable Communities Conference. Washington, D.C.
- **Lowry, M.** (with Fischer, T.) (2009). "The Typology and Selection of Sustainable Transportation Indicators." Presented at the 50th Annual Transportation Research Forum. Portland, Oregon.
- **Lowry, M.** (2008). "Case Study in Online Public Participation for Transportation Planning." Presented at the 88th Annual Meeting of the Transportation Board. Washington, D.C. Full paper published in *Transportation Research Board 88th Annual Meeting Compendium of Papers*. Transportation Research Board, National Research Council, Washington, D.C.
- **Lowry, M.** (with Fischer, T.) (2008). "Defining requirements of EST indicators from the planning and decision making point of view." Presented at the annual meeting of COST Action 356 Towards the definition of a measurable environmentally sustainable transport. Lyon, France.
- **Lowry, M.** (with Rutherford, G.S., and Nyerges, T.) (2008). "Using cluster analysis to design tax packages that fund transportation projects." Presented at the Tenth International Conference on Application of Advanced Technologies in Transportation. Athens, Greece. Full paper published in *The Proceedings of the Tenth International Conference on Application of Advanced Technologies in Transportation*.
- **Lowry, M.** (with Rutherford, G.S., and Nyerges, T.) (2008). "An internet portal for large-group participation in transportation programming decisions." Presented at the 87th Annual Meeting of the Transportation Board. Washington, D.C. Full paper published in *Transportation Research Board 87th Annual Meeting Compendium of Papers*. Transportation Research Board, National Research Council, Washington, D.C.
- **Lowry, M.** (with Zhong, T. Young, R., Rutherford, G.S., and Nyerges, T.) (2007). "An Analytic-Deliberative Framework for Transportation Programming." Presented at the 86th Annual Meeting of the Transportation Board. Washington, D.C. Full paper published in *Transportation Research Board 86th Annual Meeting Compendium of Papers*. Transportation Research Board.
- **Lowry, M.** (with Rutherford, G.S.) (2006). "Travel Time Savings for a Traveler Information System." Presented at the 85th Annual Meeting of the Transportation Research Board. Washington, D.C. Full paper published in *Transportation Research Board 85th Annual Meeting Compendium of Papers*. Transportation Research Board, National Research Council, Washington, D.C.
- **Lowry, M.** (with Balling, R. and Saito, M.) (2003). "Regional Land Use and Transportation Planning with a Genetic Algorithm." Presented at the 82nd Annual Meeting of the Transportation Research Board. Washington, D.C. Full paper published in *Transportation Research Board 82nd Annual Meeting Compendium of Papers*. Transportation Research Board, National Research Council

Other Publications:

- *Peterson, J., **Lowry, M.**, LaPaglia, K., and *Tower, B. (2014) *Summer Camp Instructor's Guide:* Sustainable Transportation Technology, Engineering, and Science, Report KLK-909, National Institute for Advanced Transportation Technology.
- **Lowry, M.** and Dixon, M. (2012) *GIS Tools to Estimate Annual Average Daily Traffic*, Report KLK-725, National Institute for Advanced Transportation Technology.
- **Lowry, M.** and *Callister, D. (2012) *Analytical Tools for Identifying Bicycle Route Suitability, Coverage, and Continuity*, Report 204, Idaho Transportation Department.
- Cook, P., *Cummings, C., Vollmer, D., Hollenhorst, S., and **Lowry, M.** (2011) Supplemental Report Greenhouse Gas Emissions from U.S. Department of the Interior Employee Commuting: Estimates for Fiscal Year 2010, Park Studies Unit, University of Idaho.
- Cook, P., Vollmer, D., Hollenhorst, S., and **Lowry, M.** (2011) *Greenhouse Gas Emissions from U.S. Department of the Interior Employee Commuting: Estimates for Fiscal Year 2010*, Park Studies Unit, University of Idaho.
- Fischer, T., Dalkmann, H., **Lowry, M.**, and Tennøy, A. (2010) "The dimensions and context of transport decision making", in *Indicators of Environmental Sustainability in Transport: An interdisciplinary approach to methods*, Editors Joumard, R. and Gudmundsson, H., INRETS report, Recherches R282, Bron, France
- **Lowry, M.** (2008) An online analytic-deliberative approach to public participation for transportation investment decisions, PhD Dissertation 59033, University of Washington.
- **Lowry, M.** and Fischer, T. (2008) Defining requirements of environmental sustainable transportation indicators from the planning and decision making point of view, STSM Report 356-03924, Cost Action 356
- Tennøy, A.and **Lowry, M.** (2008). Reisevaner for ansatte i CIENS-bedriftene før og etter samlokalisering i Forskningsparken (Travel survey among employees in the CIENS institutes before and after relocation to Forskningsparken), Report 997-2008, Transportøkonomisk institutt (Transport Economic Institute), Oslo, Norway.
- Tennøy, A. and **Lowry, M.** (2008). "Godt kollektivtilbud og dårlige p-mulighter etter flytting: Færre kjører bil til jobben (Good public transport and bad parking opportunities after relocation: Less people drive their cars to work)" *Samferdsel Nr. 4*. Transportøkonomisk Institutt (Transport Economic Institute), Oslo, Norway.
- Hagman, R. and **Lowry, M.** (2007). *Klimapåvirkning og energiforbruk, VW Passat BlueMotion* (*Greenhouse gases and fuel consumption for a VW Passat BlueMotion*), Report SM-1911-2007, Transportøkonomisk institutt (Transport Economic Institute), Oslo, Norway.
- Kristof, T., **Lowry**, **M.** and Rutherford, G.S. (2005). *Assessing the Benefits of Traveler and Transportation Information Systems*, Report No. WA-RD 597.1, TRAC and Washington State Transportation Department.
- Saito, M. and **Lowry, M.** (2005). Evaluation of Four Recent Traffic and Safety Initiatives, Volume I: Developing Guidelines For Roundabouts, Report No. UT-04.10, Utah Department of Transportation.
- **Lowry, M.** (2004) *Coordinated Regional and City Planning Using a Genetic Algorithm*, MS Thesis, Brigham Young University.

Invited Presentations:

- **Lowry, M.**, (2014). "GIS Tools for Bicycle Network Analysis and Planning", OTREC Transportation Seminar, Portland State University, Portland, Oregon.
- **Lowry, M.**, (2013). "Using Street Topology to Estimate Traffic Volumes", PacTrans Transportation Seminar, University of Washington, Seattle, Washington.

Grants and Contracts Awarded:

- (2013) **Lowry, M.** Dixon, M., Abdel-Rahim, A., Wang, Y., and Hallenbeck, M. "Data Collection and Spatial Interpolation of Bicycle and Pedestrian Data: Improving Safety and Building Livable Communities by Identifying Critical Intersections and Street Segments for Non-motorized Travel" US Department of Transportation administered by PacTrans the Region X University Transportation Center, \$200,000, 12 months. Principal Investigator with majority responsibility of proposal development, budget management, task execution, personnel supervising, and dissemination of results.
- (2013) **Lowry, M.** and Dixon, M. "Daily Travel Feedback to Encourage Eco-Routing" US Department of Transportation administered by TranLIVE a Tier 1 University Transportation Center, **\$40,000**, 12 months. <u>Principal Investigator with majority responsibility</u> of proposal development, budget management, task execution, personnel supervising, and dissemination of results.
- (2013) **Lowry, M.** and Abdel-Rahim, A. "Curriculum Development for K-12 Sustainable Transportation Education." US Department of Transportation administered by TranLIVE a Tier 1 University Transportation Center, \$23,697, 7 months. <u>Principal Investigator with majority responsibility</u> of proposal development, budget management, task execution, personnel supervising, and dissemination of results.
- (2012) Dixon, M, **Lowry, M.** and Abdel-Rahim, A. "Performance Monitoring for Safe and Livable Communities: Fusing Data to Improve Arterial Operations for All Users" US Department of Transportation administered by PacTrans the Region X University Transportation Center, \$151,903, 16 months. Co-Principal Investigator with significant responsibility of task execution and dissemination of results.
- (2012) **Lowry, M.** "Sustainable Planning Specialist: Active Travel Community Assessments." AmeriCorps, **\$22,400**, 12 months. <u>Principal Investigator with sole responsibility</u> of proposal development, budget management, task execution, personnel supervising, and dissemination of results.
- (2011) **Lowry, M.** "Analytical Tools for Identifying Bicycle Route Suitability, Coverage, and Continuity," Idaho Transportation Department, **\$49,994**, 14 months. <u>Principal Investigator with sole responsibility</u> of proposal development, budget management, task execution, personnel supervising, and dissemination of results.
- (2011) Kyte, M. Dixon, M, Beyerlein, S., **Lowry**, **M.**, and Anderson, J. "The National Transportation Curriculum Project: Developing Activity-Based Learning Modules for the Introductory Transportation Engineering Course," US Department of Transportation administered by NIATT a Tier 1 University Transportation Center, \$75,372, 8 months. <u>Co-Principal Investigator with minor responsibility</u> of task execution.
- (2011) **Lowry, M.** and Dixon, M. "A New Method to Estimate Average Annual Daily Traffic Based on Street Configuration," US Department of Transportation administered by NIATT a Tier 1 University Transportation Center, \$32,037, 8 months. Principal Investigator with majority responsibility of proposal development, budget management, task execution, personnel supervising, and dissemination of results.
- (2010) Hollenhorst, S. and **Lowry**, **M.** "Greenhouse Gas Commuter Transportation Survey," US Department of the Interior, \$99,987, 12 months. <u>Co-Principal Investigator with minor responsibility</u> of task execution and dissemination of results.
- (2009) **Lowry, M.** "Developing a sustainable transportation course for engineers and planners," University of Idaho, Sustainable Idaho Greening the Curriculum, \$1,986, 3 months. <u>Principal Investigator with sole responsibility</u> of proposal development, budget management, task execution, personnel supervising, and dissemination of results.

Honors and Awards:

2014 Outstanding Young Faculty Award, College of Engineering, University of Idaho, 2014

City of Moscow Mayor's Earth Day Award (for engineering outreach and service), Moscow, Idaho, 2014

Short Term Scientific Mission Scholar, COST Action 356, Liverpool, United Kingdom, 2008

Valle Fellow, Valle Scholarship and Scandinavian Exchange Program, Oslo, Norway, 2007

College of Engineering Community of Innovators Award, University of Washington, 2007

Washington ITE Scholarship Recipient, Seattle, Washington, 2006

Eno Fellow, Eno Transportation Leadership Development Foundation, 2006

ITS America and Women's Transportation Seminar Scholarship Recipient, Seattle, Washington, 2006

Urban Transportation Center (UTC) Student of the Year, TransNow, 2005

Technology Entrepreneurship Certificate, UW Center for Innovation and Entrepreneurship, 2005

First place Washington ITE Student Paper Competition, Seattle, Washington, 2005

First place TransNow Student Presentation Competition, Corvallis, Oregon, 2005

First place TransNow Student Poster Competition, Corvallis, Oregon, 2005

Valle Scholarship Recipient, Valle Scholarship and Scandinavian Exchange Program, 2004

ITE District 6 Scholarship Recipient, Western ITE, 2004

Civil and Environmental Engineering Graduate Scholarship Recipient, BYU, 2004

Civil and Environmental Engineering Graduate Scholarship Recipient, BYU, 2003

Civil and Environmental Engineering Department Scholarship Recipient, BYU, 2002

Joseph Layne Black Scholarship Recipient, BYU, 2001

Joseph Layne Black Scholarship Recipient, BYU, 2000

Marriot School of Business Entrepreneur Scholarship Recipient, BYU, 1999

SERVICE:

Major Committee Assignments:

National Committees

Communications Chair, TRB ADA50: Programming and Investment Decision-Making, 2010 – Present Member, Expert Panel for NCHRP Synthesis 41-11, 2009 – 2010

State and Local

Board Member, Regional Public Transportation, Inc (RPT), Board of Directors, 2012 - Present

University of Idaho

Member and COE Representative, University Safety and Loss Control Committee, 2013 – Present Member, University Transportation Advisory Group, 2009 – Present Faculty Advisor, Students for Place-based Planning and Urban Design (SPPUD), 2010 – 2013

College of Engineering

Member, College Safety Committee, 2013 - Present

Civil Engineering Department

Chair, CE Petition Committee, 2011 - Present

Member, CE Graduate Admissions Committee, 2009 – 2011

Member, CE Petition Committee, 2009 – 2011

Bioregional Planning Program

Member, BIOP Academic Program Committee, 2009 – Present Member, BIOP Curriculum Subcommittee, 2009 – Present

Professional Society Membership:

American Society of Civil Engineers (ASCE), intermittent 1998 – Present Transportation Research Board (TRB), 2002 – Present Institute of Transportation Engineers (ITE), 2002 – Present Women's Transportation Seminar (WTS), 2005 – 2006 Students for New Urbanism (SNU), 2002 – 2004

Professional Society Leadership:

Faculty Advisor, UI Student Chapter of APA, 2011 President, UW Student Chapter of ITE, 2004 Vice President, BYU Student Chapter of ITE, 2003 Treasurer, BYU Student Chapter of ITE, 2002 President, BYU Student Chapter of ASCE, 2001

Outreach Service:

City of Moscow Paradise Path Task Force (PPTF) – I helped develop a city-wide bike plan and identify infrastructure priorities. We are currently working with City Council to determine project priorities.

Moscow Safe Routes to School (SR2S) – I helped assess traffic safety at two schools for improving bicycle and pedestrian safety. I created various SR2S maps. I regularly help with Moscow SR2S events.

City of Moscow iCount – I helped create the data collection forms and annually do the data analysis for the city-wide bicycle and pedestrian data collection (2011, 2012, 2013).

Regional Public Transportation, Inc (RPT) – I serve on the Board of Directors for RPT which operates SMART Transit, the public transportation service for Latah County.

PROFESSIONAL DEVELOPMENT:

Teaching:

Bicycle and Pedestrian Education Workshop, Portland, OR, July 19-20, 2012 Transportation Engineering Educator's Conference, Seattle, WA, July 31-Aug 1, 2012 Mini-ExCEEd Teaching Workshop, Portland, OR, June 24, 2009 Transportation Education Conference, Portland, OR, June 22-23, 2009

Scholarship:

Bright Star Grant Writing Clinic, University of Idaho, December 9-11, 2009

PERSONAL INFORMATION:

Citizenship:

United States of America Canada

Language Fluency:

English Spanish

Family:

Married with two beautiful and extremely energetic daughters.