

Curriculum Vitae: Reginald R. Souleyrette, P.E.

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1.1 Identifying Information

Professor and Division Leader
Department of Civil, Construction and Environmental Engineering (CCEE)
Iowa State University (ISU)
380 Town Engineering
Ames, Iowa 50011

Associate Director and Chair, Interdisciplinary Transportation Masters Program
Center for Transportation Research and Education (CTRE)
2901 South Loop Drive, Suite 3100
Ames, Iowa 50010-8632

Phone: (515) 294-5453, Fax: (515) 294-0467
reg@iastate.edu, <http://www.eng.iastate.edu/~reg/>
Birth date, place: 9/9/62, Lexington, Kentucky
Citizenship: USA
Registration: P.E., Iowa #14662

1.2 Summary Information

Scholarship (see Section 2): 38 refereed papers and one book chapter; Awards for teaching, research and service: Dow, Schaeffer, Anderlik, Governor's Volunteer, National Safety Council (2), and UNLV Regents. **Teaching Activities (see Section 3):** average course evaluation 4.3/5.0; 26 M.S. graduates and 3 Ph.D. graduates; 12 courses developed or redeveloped. **Research Activities (see Section 4):** 84 project reports and other papers; 97 conference presentations; 95 sponsored projects for \$6.3 million as principal investigator (P.I.) or Co-P.I. (\$4.4 million as sole P.I.); chair and secretary of two national committees. **Other:** Chair of Interdisciplinary Graduate Transportation Program; Associate Director of CTRE.

1.3 Education

- Ph.D. Civil Engineering (Transportation), University of California, Berkeley, 1989.
- M.S. Civil Engineering (Transportation), University of Texas at Austin, 1986.
- B.S. Civil Engineering (Honors), University of Texas at Austin, 1984.

1.4 Academic Experience

- Professor, CCEE, ISU, July 2003-present.
- Associate Professor, CCEE, ISU, July 1996-June 2003.
- Assistant Professor of CCEE, ISU, June 1993-June 1996.
- Assistant Professor of Civil and Environmental Engineering, University of Nevada, Las Vegas (UNLV), August 1989-May 1993.

1.5 Industrial and Other Non-Academic Experience

- Consultant to local government and industry.
- Leigh Fischer and Assoc. (then owned by KPMG), project engineer/programmer, June-August 1987.
- WHM Consultants, staff engineer, May-July 1986.

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2.0 Scholarship

2.1 Refereed Journal Articles

Published:

25. Veneziano, David (graduate student), Shauna L. Hallmark, and Reginald R. Souleyrette (25%), "Accuracy of Light Detection and Ranging Derived Terrain Data for Highway Location," *Computer-Aided Civil and Infrastructure Engineering*, Vol. 19, 2004, pp. 130-143.
24. Khattak, Aemal, Shauna L. Hallmark, and Reginald R. Souleyrette (20%), "Application of Light Detection and Ranging (LIDAR) Technology to Highway Safety," *Transportation Research Record (TRR), Journal of the Transportation Research Board*, No. 1836, 2003, pp. 7-15.
23. Hallmark, Shauna L., William G. Schuman, Steven W. Kadolph, and Reginald R. Souleyrette (10%), "Integration of Spatial Point Features with Linear Referencing Methods," *TRR, Journal of the Transportation Research Board*, No. 1836, 2003, pp. 102-110.
22. Veneziano, David (graduate student), Reginald R. Souleyrette (30%), and Shauna L. Hallmark, "Integration of Light Detection and Ranging (LIDAR) Technology with Photogrammetry in Highway Location and Design," *TRR, Journal of the Transportation Research Board*, No. 1836, 2003, pp. 1-6.
21. Anderson, M.D. (former graduate student), and R.R. Souleyrette (30%), "Pseudo-Dynamic Travel Model Application to Assess Traveler Information," *Transportation*, Vol. 29, No. 3, August 2002, pp. 307-319.
20. Khattak, Aemal, Michael D. Pawlovich (graduate student), Reginald R. Souleyrette (20%), and Shauna Hallmark, "Factors Related to More Severe Older Driver Traffic Crash Injuries," *Journal of Transportation Engineering*, American Society of Civil Engineers (ASCE), Vol. 128, No. 3, May/June 2002, pp. 243-249.
19. Easa, Said M., Tim R. Strauss, Yasser Hassan, and Reginald R. Souleyrette (20%), "Three-Dimensional Transportation Analysis: Planning and Design," *Journal of Transportation Engineering*, ASCE, Vol. 128, No. 3, May/June 2002, pp. 250-258.
18. Shadewald, Jerry K. (graduate student), Shauna Hallmark, and Reginald R. Souleyrette (25%), "Visualizing System-Wide Economic Impacts of Transportation Projects," *Journal of Urban Planning and Development*, Vol. 127, No. 4., December 2001, pp. 158-168.
17. Souleyrette, Reginald R. (50%), David J. Plazak, Tim R. Strauss, and Stephen J. Andrie, "Applications of State Employment Data to Transportation Planning," *TRR, Journal of the Transportation Research Board*, No. 1768, 2001, pp. 26-35.
16. Souleyrette, Reginald R. (50%), T.H. Maze, Tim Strauss, Dave Preissig (graduate student), and Ayman G. Smadi, "Freight Planning Typology," *TRR, Journal of the Transportation Research Board*, No. 1613, 1998, pp. 12-19.
15. Shanmuganathan, Raju (graduate student), Reginald R. Souleyrette (25%), and Tom Maze, "A Dynamic Bayesian Approach to Estimate the Impact of Speed Limit Changes," *TRR, Journal of the Transportation Research Board*, No. 1640, 1998, pp. 47-56.
14. Souleyrette, Reginald R. (50%), and Michael D. Anderson (graduate student), "Developing Small Area Network Planning Models using Desktop GIS," *Journal of Urban Planning and Development*, Vol. 124, No. 2, June 1998, pp. 55-71.
13. Cadwallader, Capt. William, and Reginald R. Souleyrette (50%), "GIS Aids in Romania's Communism-to-Capitalism Transition," *GeoInfo Systems*, Vol. 8, No. 1, January 1998, pp. 30-34.

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12. Kamyab, Ali (graduate student), T.H. Maze, and Reginald R. Souleyrette (15%), "Application of Vehicle Specific Information in Adaptive Intersection Traffic Signal Control," *Transportation Quarterly*, Vol. 50, No. 2, Spring 1996, pp. 159-168.
11. Kamyab, Alireza (graduate student), T.H. Maze, and Reginald R. Souleyrette (15%), "Evaluation of Vehicle Specific Information in a Traffic Signal Control," *Journal of Transportation Engineering*, Vol. 122, No. 6, November/December 1996, pp. 421-429.
10. Anderson, Michael D. (graduate student), and Reginald R. Souleyrette (50%), "A GIS-Based Transportation Forecast Model for Use in Smaller Urban and Rural Areas," *TRR, Journal of the Transportation Research Board*, No. 1551, 1996, pp. 95-104.
9. Pawlovich, Michael D. (graduate student), Ed Jaselskis, and Reginald R. Souleyrette (25%), "Emerging Concepts in Innovative Sign Management Programs," *TRR, Journal of the Transportation Research Board*, No. 1553, 1996. pp. 12-17.
8. Garrison, William L., and Reginald R. Souleyrette (50%), "Transportation, Innovation and Development: The Companion Innovation Hypothesis," *The Logistics and Transportation Review*, Vol. 32, No. 1, March 1996, pp. 1-20.
7. Souleyrette, Reginald R. (50%), Zachary N. Hans (graduate student), William L. Garrison, and Lorne Wazny, "Analysis of Trends Underlying Urban/Regional Impacts of Traffic Growth," *Journal of Urban Planning and Development*, Vol. 121, No. 4, December 1995, pp. 158-171.
6. Hans, Zachary N. (graduate student), and Reginald R. Souleyrette, "GIS and Network Models: Issues for Three Potential Applications," *Journal of Advanced Transportation*, Vol. 29, No. 3, Fall 1995, pp. 355-373.
5. Souleyrette, Reginald R. (60%), and Shashi K. Sathisan, "Applications of GIS for Radioactive Materials Transportation," *Microcomputers in Civil Engineering (now Computer-Aided Civil and Infrastructure Engineering)*, Vol. 9, 1994, pp. 295-303.
4. Garrison, William L., and Reginald R. Souleyrette (50%), "The Relationship between Transportation and Innovation," *Transportation Quarterly*, Vol. 48, No. 3, Summer 1994, pp. 257-265.
3. Robuste, Francesc, Carlos F. Daganzo, and Reginald R. Souleyrette (25%), "Implementing Vehicle Routing Models," *Transportation Research Part B*, Vol. 24B, No. 4, August 1990, pp. 263-286.
2. Garrison, William L., and Reginald R. Souleyrette (50%), "The Relations between Transportation and Production," *TRR, Journal of the Transportation Research Board*, No. 1262, 1990, pp. 21-30.
1. Souleyrette, Reginald R. (75%), Hani S. Mahmassani, and C. Michael Walton, "An Operational Typology for Toll Financing of Highway Facilities," *TRR, Journal of the Transportation Research Board*, No. 1077, 1986, pp. 5-12.

2.2 Refereed Conference Proceedings (full paper peer review)

14. Harrison, Sheldon, Shauna Hallmark and Reginald R. Souleyrette (25%), "Sensitivity Analysis of Travel Demand Models for Small and Medium-Sized Communities and Rural Areas," *Proceedings of the 83rd Annual Meeting of TRB*, Washington, DC, January 2004.
13. Plazak, David, and Reginald R. Souleyrette (25%), "Process to Identify High Priority Corridors for Access Management Near Large Urban Areas in Iowa Using Spatial Data," *Proceedings of the TRB Annual Access Management Conference*, Austin, TX, June 2002.

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12. Veneziano, David (graduate student), Shauna Hallmark, Kamesh Mantravadi (graduate student), and Reginald R. Souleyrette (10%), "Evaluating Remotely Sensed Images for Use in Inventorying Roadway Features," *Proceedings of the ASCE AATT Conference*, Cambridge, MA, August 2002.
11. Souleyrette, Reginald R. (50%), Ali Kamyab and Zach Hans (former graduate students), and Aemal Khattak, "Systematic Identification of High Crash Locations," *Proceedings of the 81st Annual Meeting of TRB*, Washington, DC, January 2002.
10. Anderson, Michael D. (graduate student), and Reginald R. Souleyrette (25%), "A Network Demand Model for Rural Bypass Planning," *Proceedings of the 79th Annual Meeting of TRB*, Washington, DC, January 2000.
9. Khattak, Aemal, Michael D. Pawlovich (graduate student), and Reginald R. Souleyrette (25%), "An Investigation of Injury Severity of Older Drivers in Iowa," *Proceedings of the 79th Annual Meeting of TRB*, Washington, D. C., January, 2000.
8. Strauss, Tim R., Reginald R. Souleyrette (25%), Daniel J. Gieseman (former graduate student), and Tom Maze, "Development of a GIS-Based Crash Location Tool," *6th World Congress on Intelligent Transportation Systems*, Toronto, October 1999.
7. Anderson, M.D. and W.C. Vodrazka (graduate students), and R.R. Souleyrette (50%), "Iowa Travel Model Performance, 20 Years Later," *Transportation, Land Use and Air Quality*, ASCE, Portland, OR, May 17-20, 1998, pp. 586-595.
6. Albrecht, C.P. (graduate student), D. Plazak, and R.R. Souleyrette (10%), "Access Management and Land Use: A Proposed Process," *Transportation, Land Use and Air Quality*, ASCE, Portland, OR, May 17-20, 1998, pp. 94-103.
5. Sathisan, Shashi K., Reginald R. Souleyrette (40%), and Soon-tin Lim (graduate student), "GIS-Based Applications for Rail Infrastructure Analysis," *Guessing the Future: Coping with Uncertainty in Infrastructure Planning and Infrastructure Management: New Challenges, New Methods*, ASCE, Denver, July 21-23, 1993, pp. 347-351.
4. Souleyrette, Reginald R. (60%), Shashi K. Sathisan, and Emelinda Parentela (graduate student), "Hotel-Casino Trip Generation Analysis Using GIS," *Site Traffic Impact Assessment*, ASCE, Chicago, June 8-10, 1992, pp. 52-56.
3. Souleyrette, Reginald R. (50%), Shashi K. Sathisan, David E. James, and Soon-tin Lim (graduate student), "GIS for Transportation and Air Quality Analysis," *Transportation Planning and Air Quality* (special publication), ASCE, New York, 1991, pp. 182-194.
2. Halstead, Robert J., Reginald R. Souleyrette (30%), and Russell di Bartolo, "Transportation Access to Yucca Mountain: Critical Issues," *Public Safety and Technical Achievement* (special publication), ASCE, 1991, pp. 647-656.
1. Walton, C. Michael, Mark A. Euritt, and Reginald R. Souleyrette (30%), "Private Participation in Financing Highway Projects and Providing Property for Highway Improvements," *Understanding the Highway Finance Evolution/Revolution*, American Association of State Highway and Transportation Officials (AASHTO), Washington, DC, 1987.

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2.3 Refereed Books (chapter)

1. Souleyrette, R.R. (50%), and T.R. Strauss (1999), "Transportation," *Urban Planning and Development Applications of GIS*, Said Easa and Yupo Chan (eds.), ASCE, Reston, VA, Chapter 7, pp.117-133

2.4 Selected Citations

- *Guidebook on Method to Estimate Non-Motorized Travel: Supporting Documentation*, Publication NO. FHWA-RD-98-166, cites 1996 AASHTO GIS-T bicycle planning paper.
- TranSafety, Inc., *Road Management and Engineering Journal*, summarizes TRR 1553 paper (<http://www.usroads.com/journals/rmj/9708/rm970801.htm>).
- Eatough, Brich, and Demetsky, "A Statewide Intermodal Freight Transportation Planning Methodology," *Transportation Quarterly*, Vol. 39(1), 2000, pp. 145-155, cites TRR 1613 paper.
- "A Statewide Intermodal Freight Transportation Planning Methodology," *Transportation Quarterly*, Winter 2000, cites TRR 1613 paper.
- *Collection and Presentation of Roadway Inventory Data*, NCHRP Report 437, 2000, cites TRR 1553 paper.
- "The Unique Analytic Capabilities Geographic Information Systems can offer the Traffic Safety Community," *TRB Proceedings*, January 2000, cites 1994 *Microcomputers* paper.
- "Value of GIS in Crash Countermeasures," Virginia Transportation Research Council, April 1999, cites 1996 GIS ALAS Semisesquicentennial paper and 1994 *Microcomputers* paper.
- Jobes and Papayannoulis, "An Integrated Traffic Simulation/GIS Platform," *TRB Proceedings*, January 1998, cites *FHWA Priority Technology Program Report: Transportation Planning GIS*.
- "Choosing an Inventory Data Collection System," *TRB Proceedings*, January 1999, cites TRR 1553 paper.
- "GIS Improves City Management Services," *Cityscape*, August 1997, quotes.
- "Networks, Reminiscence and Lessons," *Flux*, Spring 1990, cites dissertation work.

2.5 Honors and Awards

- 28th International Traffic Records Forum Best Practices Award (Honorable Mention for role in developing Iowa's Emergency Response Information System, 2002).
- Joseph and Elizabeth Anderlik Award for Excellence in Undergraduate Teaching, CCEE Department, ISU, 2001.
- Iowa Department of Public Safety Commissioner's Special Award for Traffic Safety (for development of Iowa Traffic Safety Data Service), 2001.
- 26th International Traffic Records Forum Best Practices Award (award for role in Iowa National Model/Crash Location Software Development), 2000.
- Hammer Award, Vice President's National Partnership for Reinventing Government (additional award for role in Iowa National Model/Crash Location Software Development), 2000.
- Charles W. Schaefer Award for Excellence in Teaching, Research and Service in Civil Engineering, CCEE Department, ISU, 1998.
- Distinguished Lecturer, Mid-America Transportation Center, Transportation Seminar Series, April 1998.
- Governor's Volunteer Award for Outstanding Service to the State of Iowa, 1998.
- American Society of Engineering Education Centennial Award, 1993.
- American Society of Engineering Education, Dow Chemical Corporation Outstanding Young Faculty Award, Pacific Southwest Section, 1992.

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- Regents of the University of Nevada System Outstanding Faculty Award, 1991.
- Sigma Xi, Scientific Research Society, inducted 1991.
- Outstanding Graduate Student Instructor, University of California, Berkeley, 1987.
- Industrial Liaison Program Scholarship, University of California, Berkeley, 1986.
- Institute of Transportation Engineers (ITE) District 5 Best Student Paper Award, 1986.
- Eno Foundation for Transportation Fellowship, University of Texas, 1985.
- Tau Beta Pi, inducted 1983.
- Chi Epsilon, inducted 1983.
- Ernest Cockrell Jr. Scholarship, University of Texas, 1980-1984.

2.6 Student Advisees' Major Awards

- Jerry Shadewald, M.S., U.S. DOT Regional Student of the Year, 2001
- Richard Storm, M.S., U.S. DOT Eisenhower Fellowship, 1999-2001
- Chris Monsere, Ph.D., U.S. DOT Eisenhower Fellowship, 1998-2000
- David Preissig, M.S., U.S. DOT Eisenhower Fellowship, 1996-1998
- Michael Anderson, Ph.D., U.S. DOT Eisenhower Fellowship, 1996-1999
- Michael Anderson, M.S., U.S. DOT Eisenhower Fellowship, 1994-1996

3.0 Teaching Activities

3.1 Courses

Semester	Number	Title	Credits	Enroll.	Rating
2004 S	CE 453	Highway Design (two sections)	4	34	NA
2003 F	TR 555	Research Methods with Tom Maze (I did 30% of course)	3(1)	12	NA
2003 F	CE 453	Highway Design with Shauna Hallmark (10%) (1/2 of lab sections)	4	35	NA
2003 S	CE 453	Highway Design (two sections)	4	34	4.04
2002F	CE 453	Highway Design (two sections)	4	41	4.12
2002S	CE 453	Highway Design with Ed Kannel (90%)	4	37	4.07
2001F	CE 453	Highway Design with Ed Kannel (90%)	4	35	4.50
2001F	CE 451/551	Urban Transportation Planning (20%)	3	18	NA
2001S	CE 486	Senior Design (10%)	3	48	NA
2001S	CE 453	Highway Design	4	25	4.05
2000F	CE 486	Senior Design (10%)	3	29	NA
2000F	CE 451/551	Urban Transportation Planning	3	19	4.07
2000S	CE 354	Airport Planning and Design	2	27	4.40
1999F	CE 353	Railroad Planning and Design	2	25	4.00
1999F	CE 451/551	Urban Transportation Planning	3	21	4.16
1999S	CE 352-1	Transportation Engineering	3	22	4.03
1999S	CE 352-2	Transportation Engineering	3	23	4.03
1998F	CE 451/551	Urban Transportation Planning	3	17	4.47
1998S	CE 352-1	Transportation Engineering	3	20	4.00
1998S	CE 352-2	Transportation Engineering	3	22	4.05
1997F	CE 451/551	Urban Transportation Planning	3	23	4.13

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1997F	CE 553	Traffic Engineering	3	10	4.22
1997S	CE 352-1	Transportation Engineering	3	31	4.00
1997S	CE 352-2	Transportation Engineering	3	26	4.00
1996F	CE 451/590	Urban Transportation Planning	3	23	4.36
1996F	CE 553	Traffic Engineering	3	10	4.00
1996S	CE 352-1	Transportation Engineering	3	23	3.80
1996S	CE 352-2	Transportation Engineering	3	30	4.10
1995F	CE 553	Traffic Engineering	3	12	4.82
1995S	CE 451	Urban Transportation Planning	3	14	4.75
1994F	CE 553	Traffic Engineering	3	8	4.47
1994S	CE 451	Urban Transportation Planning	3	12	4.55
1993F	CE 553	Traffic Engineering	3	8	4.35
1993S	CEG 467/667	Computer Apps. in Trans. Engineering	3	7	NA
1992F	CEG 795	GIS Apps. in Trans. Engineering	3	8	4.62
1992S	CEG 468/668	GIS Apps. in Civil Engineering	4	6	4.68
1992S	CEG 795	Advanced Studies in Transportation	3	5	4.50
1991F	CEG 795	Apps. of Trans. Planning Models	3	10	4.50
1991S	CEG 467/667	Computer Apps. in Trans. Engineering	3	11	4.50
1990F	CEG 760	Urban Trans. Network Analysis & Planning	3	7	4.26
1989F	CEG 462	Transportation Engineering	3	7	4.84

- 11 undergraduate independent studies (CE 490), including four senior design projects
- 9 graduate independent studies (CE 590)

3.2 Undergraduate Student Advising

- 18 undergraduate students advised each semester from 1993 to present.

3.3 Graduate Student Advising

3.3.1 Major and Co-Major Professor

Ph.D. Students

Current:

4. Tom Stout, CCEE, Dissertation topic: Validation of Solomon's Curve, expected 2004/5.

Former:

3. Michael D. Pawlovich, CCEE, Dissertation: "Evaluating Traffic Safety Resource Allocation: An Initial Framework Utilizing the Hierarchical Bayesian Philosophy," December 2003.
2. Chris Monsere, (co-major professor with Tom Maze) CCEE, Dissertation: "A GIS-Based Multicommodity Freight Model: Model Refinement and Field Validation," August 2001.
1. Michael D. Anderson, CCEE, Dissertation: "Assessing the Benefit of Improved Traveler Information: A Pseudo-Dynamic Modeling Approach," December 1998.

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M.S. Students

Current:

34. Todd Knox, CCEE, Thesis Topic: TBD.
33. Xudong Chai, Transportation, Thesis topic: TBD.
32. Ryan Tenges, CCEE, Thesis topic: TBD.
31. Paula Lempky, Transportation, Thesis topic: TBD.
30. Marc DeLong, CCEE, Thesis topic: TBD.
29. Hossein Naraghi, CCEE, Thesis topic: Safety Implications of Older-Younger Driver Interaction.
28. Mike Bagheri, CCEE, Thesis topic: Pedestrian Safety Toolbox.
27. Kevin Triggs, Transportation, Thesis topic: Emergency Response Information System.

Former:

26. Molly O'Brien, CCEE, Thesis: "Effectiveness of the all-red clearance interval on intersection crashes," December 2003.
25. Turhan Yerdelen, Transportation, Thesis: "Evaluation of electronic collection of vehicle crash data in Iowa," August 2003.
24. Jerry Roche, CCEE, Creative Component: "Design and Evaluation of an Emergency Response Information System," May 2002.
23. Srinivasa Veeramallu (co-major professor with Shauna Hallmark), CCEE, Thesis: "Applications of Remote Sensing to Highway ACCEESS Management," December 2001.
22. Aravind Gottemukkulla (co-major professor with Keith Knapp), CCEE, Thesis: "Improved Data Retrieval Techniques for Crash Analysis," August 2001.
21. Richard Storm, CCEE, Thesis: "Methods to Implement GIS for Validation, Reasonableness Checks and Traffic Adjustment of Transportation Planning Models," August 2001.
20. Kyle Evans, CCEE, Creative Component: "A Statistical Analysis of Collisions in Ankeny, IA," August 2001.
19. Terry Powell, Transportation, Thesis: "Transportation Maintenance Costs and Urban Density: A Central Iowa Case Study," December 2000.
18. Jerry Shadewald, CCEE, Thesis: "The Use of Travel Demand Models with Geographic Information Systems in Transportation Planning," December 2000.
17. Molly Dimond Long, CCEE, Thesis: "Applications of Remote Sensing to Transportation," August 2000.
16. Brad Estochen, CCEE, Thesis: "An Evaluation of Medical Crash Costs: A CODES Application," May 1999.
15. David Preissig, CCEE, Thesis: "Multimodal Statewide Freight Transportation Modeling Process," May 1998.
14. Daniel Geiseman, Transportation, Thesis: "Graphical Analysis of Roadway Sufficiency Parameters for Improved Asset Management," May 1998.

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13. Walter C. Vodrazka, CCEE, Thesis: "Travel Models for Small Urban Areas: A Forensic Assessment," December 1997.
12. Jai Shanker Bhoothanath, CCEE, Creative Component: "Use of Category Models for Pavement Management," May 1997.
11. Shirish Pathak, CCEE, Creative Component: "A GIS-based Layered Approach to Statewide Freight Transportation Modeling," May 1997.
10. Muru S. Muniandi, CCEE, Creative Component: "The Impact of Speed Limit Increase on Traffic Safety, an Analysis of Miles Traveled, Speed, and Accidents on Public Highways in Iowa," August 1996.
9. Michael Pawlovich, CCEE, Thesis: "A Geographic Information System Based Accident Location and Analysis System," August 1996.
8. Phillip J. Mescher, Transportation Planning, Thesis: "Utilizing a Multiobjective Decision Making Process in a Geographic Information System Environment to Facilitate Bicycle Route Transportation Planning," May 1996.
7. Michael D. Anderson, CCEE, Thesis: "Quick Response Techniques to Transportation Planning: An Integrated Geographic Information System Approach," May 1996.
6. Ted Smith, Transportation Planning, Thesis: "An Information Engineering Approach for the Coordinated Development of Statewide Multi-modal Transportation Forecasting Models," May 1995.
5. Zach Hans, CCEE, Thesis: "A Geographic Information System for Transportation Modeling, Alternatives and Policy Analysis," December 1994.
4. Peggi Knight, CCEE, Creative Component: "Evaluation of Referencing Systems for the Iowa DOT," December 1994.
3. Greg Royster, Transportation Planning, Thesis: "Using Traffic Operations Software to Expand the Applicability of Travel Forecasting Models," August 1994.
2. Justin Rasas, Thesis: "Linkages between Transportation Planning, Risk Assessment, and GIS Models," May 1992.
1. Soon-tin Lim, Thesis: "Impact Assessment using Geographic Information Systems: Some Transportation Engineering Applications," December 1991.

3.3.2 Graduate Committees

Ph.D. Students

Current:

4. David Veneziano, CCEE, Dissertation topic: TBD.

Former:

3. Ali Kamyab, CCEE, Dissertation: "Evaluation of Automatic Vehicle Specific Identification (AVSI) in a Traffic Signal Control System," May 1995.
2. Emelinda Parentela, Dissertation: "GIS for Radioactive Materials Routing Analysis," May 1996.
1. Ken Ackeret, Dissertation: "Analysis of Intersection Geometry Improvements," May 1996.

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M.S. Students

Current:

32. Bill Jansen, CCEE, Thesis topic: TBD.
31. Hillary Isebrands, CCEE, Thesis topic: TBD.
30. Vinod Binyala, Transportation, Thesis topic: TBD.
29. Manish Agarwal, CCEE, Thesis topic: TBD.
28. Jonathan Rees, Transportation, Thesis topic: TBD.
27. Ron Sinwell, Industrial Education, Thesis topic: Seat Belt Use in Rural Areas.

Former:

26. Sitansu Pattnaik, CCEE, Thesis, "Remote Sensing for Grade and Cross Slope Estimation.," August 2003.
25. Sheldon Harrison, Transportation, Thesis, "Sensitivity of Air Quality Emissions Estimates to Travel Demand Modeling Techniques," August 2003.
24. Don Tebben, Community and Regional Planning, Report topic: Evaluation of DOT Public Participation Process, August 2003.
23. Andy Swisher, CCEE, Creative Component: Sensitivity of Mobile 6 Emissions Estimates, December 2002.
22. David Veneziano, Transportation, Thesis: "Evaluation of LIDAR-Derived Terrain Data in Highway Planning and Design," August 2002.
21. Jason Stribiak, Transportation, Thesis: Comparison of Five Methods to Identify and Prioritize Locations for Red Light Enforcement Equipment," December 2001.
20. Karen Giese, CCEE, Thesis: "Operational Impacts of Converting 4-Lane Roadways to 3-Lane Cross Sections," August 2001.
19. Kamesh Mantravadi, CCEE, Thesis: "Evaluating Remotely Sensed Images for use in Inventorying Roadway Infrastructure Features," August 2001.
18. Richard Herrick, CCEE, Creative Component: "Traffic Impact and ACCEEss Study for the Iowa State University Research Park," August 2001.
17. Michael Clay, Community and Regional Planning, Professional Report: "Automated Bridge Anti-Icing Pilot Project," May 2001.
16. Han-Cheng Wu, CCEE, Thesis: "Performance of Epoxy Coated Bars in the State of Iowa Bridge Decks," August 1999.
15. Steven D. Schrock, CCEE, Thesis: "Evaluation of Alternative Rural Interstate Work Zone Traffic Management Plans Using Simulation: A Case Study," August 1999.
14. Jon Resler, CCEE, Thesis: "Sensitivity Analysis of the Quadrennial Needs Study Results Using Automated Pavement Condition Data," December 1998.
13. Jeff Gerken, CCEE, Thesis: "Evaluation of Variable Message Signs in Managing Freeway Incidents Using Simulation," August 1998.
12. Chunlin Cao, Community and Regional Planning, Thesis: "Urban Form and Transportation," May 1998.

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11. Elsy Walker, Community and Regional Planning, Thesis: "Assessing the Benefits of an Integrated, Open ACCEEss Cost Recovery Policy for Spatial Data," May 1998.
10. Chris Monsere, CCEE, Thesis: "Economic Analysis of the Application of Intelligent Transportation Systems Technologies for Commercial Vehicle Operations to the Mid-Continent Corridor," December 1997.
9. Tim Simodynes, CCEE, Thesis: "The Effect of Reducing Conflict Points on Reducing Accident Rates," August 1997.
8. Shanmuganathan Raju, CCEE, Thesis: "Impact of the 65 MPH Speed Limit on Iowa's Rural interstate Highways: An Integrated Bayesian Forecasting and Dynamic Modeling Approach," August 1997.
7. Milagros M. Ortiz, Community and Regional Planning, Thesis: "Intercity Transportation for Disabled Persons in Puerto Rico," December 1995.
6. Patrick A. Pittenger, Transportation Planning, Thesis: "The Role of Pavement Management Systems in Iowa Regional Planning Agencies," December 1995.
5. Steve Mortensen, Community and Regional Planning, Thesis: "Impact of IVHS on Land Use Patterns and Development," August 1995.
4. Frank Eastman, Business Administration and Transportation Planning, Thesis: "An Exploratory Study: Implications and Propositions Regarding Vanpooling, the Employer's Perspective," December 1994.
3. Keith B. Helmuth, Civil and Environmental Engineering, Thesis: "Evaluation of Operational Strategies for Urban Arterials: Two-Way Streets vs. One-Way Couplets," May 1993.
2. Odeh Kheir, Architecture, Thesis: "Factors Affecting Airport Terminal Configuration: An Application and Design for the Future Jerusalem International Airport," May 1993.
1. Emelinda Parentela, Civil and Environmental Engineering, Thesis: "A Comprehensive Study of Bus Turnouts: Effectiveness, Location, And Design," December 1990.

3.4 Curriculum Development Activities (Courses Developed or Significantly Redeveloped)

ISU:

- CE 453, Highway Design
- CE 451/551, Urban Transportation Planning
- CE 354, Airport Planning and Design
- CE 353, Railroad Planning and Design
- CE 352, Transportation Engineering
- CE 553, Traffic Engineering

UNLV:

- CEG 467/667, Computer Applications in Transportation Engineering
- CEG 468/668, GIS Applications in Civil Engineering
- CEG 795, Advanced Studies in Transportation
- CEG 795, Applications of Transportation Planning Models
- CEG 760, Urban Transportation Network Analysis and Planning
- CEG 462, Transportation Engineering

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3.5 Teaching-Related Service, including Leadership Positions

- Committee on Education, ASCE, Urban Planning and Development Division, 1996-present.
- Co-Chair, American Society for Engineering Education, Pacific Southwest Section Annual Conference, October 1990.
- Vice Chair for Membership, American Society for Engineering Education, Pacific Southwest Section, 1991-1993.
- Planning Committee, Iowa County Engineers Special Schools, 1997-1998.

4.0 Research/Creative Activities

4.1 Major Final Reports

63. Souleyrette, Reginald R. (50%), Shauna L. Hallmark, Molly O'Brien (graduate student), Sitansu Pattnaik (graduate student), and Zachary N. Hans, *Remote Sensing Change Analysis Methodology to Support Traffic Monitoring Programs*, CTRE, ISU, July 2003.
62. Kannel, Edward J., Reginald R. Souleyrette (30%) and Ryan Tenges (graduate student), *In-Street Yield to Pedestrian Sign Application in Cedar Rapids, Iowa*, CTRE, ISU, May 2003.
61. Souleyrette, Reginald R. (50%), Thomas J. McDonald, and Ryan Tenges (undergraduate student), *Angle Parking on Iowa's Low Volume Primary Extensions in Small Towns*, CTRE, ISU, January 2003.
60. Plazak, David and Reginald R. Souleyrette (30%), *Process to Identify High-Priority Corridors For ACCEEs Management Near Large Urban Areas in Iowa*, CTRE, ISU, December 2002.
59. Souleyrette, Reginald R. (25%), Zachary N. Hans, Nick Burdine, and Jerry Roche (graduate student), *Emergency Response Information System CD and Documentation*, CTRE, ISU, July 2002.
58. Souleyrette, Reginald R. (35%), et al., *Comparison of LIDAR & Conventional Mapping Methods for Highway Corridor Studies*, CTRE, ISU, June 2002.
57. Souleyrette, Reginald R. (25%), et al., *Paved Shoulders on Primary Highways in Iowa: An Analysis of Shoulder Surfacing Criteria, Costs, and Benefits*, CTRE, ISU, November 2001 (<http://www.ctre.iastate.edu/reports/pavedshoulder.pdf>).
56. Hans, Zach, and Reginald R. Souleyrette (20%), *Iowa DOT Road Work Report Website*, CTRE, ISU, 1998-present (<http://www.ctre.iastate.edu/iowaroadwork/>).
55. Gieseman, Dan, Nick Burdine, and Reginald R. Souleyrette (20%), *Iowa DOT Weatherview Web Site*, CTRE, ISU, 1999-present, (<http://www.weatherview.dot.state.ia.us/>)
54. Souleyrette, Reginald R. (50%), et al., *Iowa Traffic Safety Data Service*, CTRE, ISU, September 1999-present, (<http://www.ctre.iastate.edu/itsds>).
53. Gieseman, Daniel J., and Reginald R. Souleyrette (25%), *Incident Location Software User's Manual*, CTRE, ISU, December 2001.
52. Hallmark, Shauna, Kamesh Mantravadi (graduate student), Reginald R. Souleyrette (35%), and David Veneziano (graduate student), *Use of Remote Sensing for Collection of Data Elements for Linear Referencing Systems*, CTRE, ISU, September 2001 (<http://www.ctre.iastate.edu/>).
51. Souleyrette, Reginald R. (80%), Srinivasa Rao Veeramallu (graduate student), and Shauna L. Hallmark, *Use of Remote Sensing to Identify Access Elements for Safety Analysis*, CTRE, ISU May 2001 (<http://www.ctre.iastate.edu/reports/RemoteSenseAccess.pdf>).

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50. Hallmark, Shauna L., Kamesh Mantravadi (graduate student), David Veneziano (graduate student), and Reginald R. Souleyrette (20%), *Evaluating Remotely Sensed Images for use in Inventorying Roadway Infrastructure Features*, CTRE, ISU, May 2001 (<http://www.ctre.iastate.edu/reports/RemoteSenseInvent.pdf>).
49. Souleyrette, Reginald R. (25%), Ali Kamyab, Zach Hans, Keith Knapp, and Aemal Khattak, *Systematic Identification of High Crash Locations*, CTRE, May 2001. (<http://www.ctre.iastate.edu/reports/hcl.pdf>).
48. Storm, Richard and Jerry Shadewald (graduate students), and Reginald R. Souleyrette (30%), *GIS/Tranplan Enhancement Software and Documentation*, CTRE, ISU, December 1999 (<http://www.ctre.iastate.edu/Research/enhance/download.html>).
47. Monsere, Chris M. (graduate student), Reginald R. Souleyrette, and Chunlin Cao (graduate student), CD ROM and Workbooks for Federal Data Users: Freight, Employment and Spatial Data, CTRE, ISU, August 1999.
46. Estochen, Brad (graduate student), and Reginald R. Souleyrette (30%), *Crash Outcomes Data Evaluation System (CODES) GIS Development*, CTRE, ISU, May 1999 (software database only, project website at <http://www.ctre.iastate.edu>).
45. Schuman, William G., Zachary N. Hans, and Reginald R. Souleyrette (30%), *Iowa DOT Linear Referencing System RFP*, CTRE, ISU, December 1998.
44. Souleyrette, Reginald R. (50%), Tim R. Strauss, Michael D. Pawlovich and Brad Estochen (graduate students), *GIS-Based Accident Location and Analysis System (GIS-ALAS), Project Report Phase II (Software is now maintained as SAVER by Iowa DOT)*, CTRE, ISU, April 1999.
43. Hans, Zachary N., and Reginald R. Souleyrette (30%), *Geographic Information System (GIS) Database Development, Integration, and Maintenance for the Iowa Department of Transportation Maintenance Division*, CTRE, ISU/Iowa DOT Maintenance Division, December 1998.
42. Gieseman, Daniel J., and Reginald R. Souleyrette (30%), *CTAMS (Coordinated Transportation Analysis and Management System) User Tool Software and Documentation*, CTRE, ISU, July 1998.
41. Anderson, Michael D. (graduate student), and Reginald R. Souleyrette (50%), *GIS Traffic Planning Tools: Software, Documentation and Final Report*, CTRE, ISU, December 1998 (<http://www.ctre.iastate.edu/Research/traffic/gis-tpt.pdf>).
40. Plazak, D., T.R. Strauss, and R.R. Souleyrette (35%), *Improved Employment Data for Transportation Planning Final Report*, CTRE, ISU, October 1998 (<http://www.ctre.iastate.edu/reports/employ.pdf>).
39. Gieseman, Daniel J., and Reginald R. Souleyrette (10%), *Incident Location Software*, CTRE, ISU, July 1998 (software—various versions through present—see project report #52 for User's Manual, project website: <http://www.ctre.iastate.edu>).
38. Souleyrette, Reginald R. (70%), and David T. Preissig (graduate student), *Statewide Transportation Planning Model and Methodology Development Program, Software, Data, Documentation, and Phase II Report*, CTRE, ISU, May 1998 (<http://www.ctre.iastate.edu/Research/statmod/planning.htm>).
37. Schuman, William G., Tim R. Strauss, Reginald R. Souleyrette (25%), and Zachary N. Hans, *Iowa DOT GIS Implementation Plan (Strategic Plan Update)*, CTRE, ISU/Iowa DOT, May 1998.
36. Souleyrette, Reginald R. (50%), Tim R. Strauss, Michael D. Pawlovich (graduate student), and Brad Estochen (graduate student), *GIS-Based Accident Location and Analysis System (GIS-ALAS), Project Report Phase I*, CTRE, ISU, April 1998 (<http://www.ctre.iastate.edu/Research/gis-alas/papers/gisalasph1.pdf>).

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35. Location Referencing System Team Report, CTRE, ISU/Iowa DOT, January 1998.
34. Souleyrette, Reginald R. (30%), Marilyn Kuntemeyer, Dan Geiseman (graduate student), and Michael D. Anderson (graduate student), *Coordination of Data Elements from the DOT Management Systems*, CTRE, ISU, May 1997.
33. Souleyrette, Reginald R. (50%), and Michael D. Anderson (graduate student), *FHWA Priority Technology Program, Final Report: Transportation Planning GIS*, Publication No. FHWA-PT-96-IA (01), Federal Highway Administration (FHWA), U.S. DOT, February 1997 (<http://www.ctre.iastate.edu/Research/fhwa/FHWAPTP1.PDF>).
32. Souleyrette, Reginald R. (70%), Zachary N. Hans, and Shirish Pathak (graduate student), *Statewide Transportation Planning Model and Methodology Development Program, Phase I Report*, CTRE, ISU, November 1996 (<http://www.ctre.iastate.edu/Research/statmod/freightph1.pdf>).
31. Hans, Zachary N., and Reginald R. Souleyrette (30%), *GIS Special Studies and Pilot Projects and Special for Iowa DOT*, CTRE, ISU, January 1997 (online report only: <http://www.ctre.iastate.edu>).
30. Souleyrette, Reginald R. (10%), et al., State of Iowa Geographic Information Systems Work Group, *Iowa Intergovernmental Information Technology and Telecommunications Plan*, December 20, 1996.
29. Souleyrette, Reginald R. (75%), et al., *Applications for Interactive Transportation Planning GIS (TPGIS)*, CTRE, ISU, May 1996.
28. Souleyrette, Reginald R. (60%), and Zachary N. Hans, *A Review of the Transportation Components of the Disposal of Canada's Nuclear Fuel Waste: Preclosure Assessment of a Conceptual System*, for Beak Consultants, Ltd., Brampton, Ontario, Canada, February 10, 1995.
27. Souleyrette, Reginald R. (75%), et al., *GIS Strategic Plan for the Iowa DOT*, CTRE, ISU, December 1994.
26. Souleyrette, Reginald R. (50%), and Zachary N. Hans (graduate student), *High Speed Computing to Facilitate Real Time Analysis of Transportation Planning Alternatives through GIS*, CTRE, ISU, January 1995
25. Souleyrette, Reginald R. (40%), Daniel R. Croce (graduate student), and Zachary N. Hans (graduate student), *Use of Supercomputer for Interactive Travel Demand Modeling through GIS*, CTRE, ISU/Cray Research, November 1994.
24. Souleyrette, Reginald R. (70%), and Jeff J. Jensen (graduate student), *Development of Census Block - TAZ Correspondence Tables*, UNLV/TRC/RR-93-02, April 1993.
23. Dilger, Fred C. III, and Reginald R. Souleyrette (50%), *Data Automation in Support of the Colorado River Regional Transportation Study*, UNLV/TRC/RR-93/04, City of Bullhead City, Arizona, April 1993.
22. Parentela, Emily (graduate student), Reginald R. Souleyrette (40%), and Daniel R. Croce (graduate student). *Traffic Data Collection, Reduction and Dissemination Program Needs Assessment*, UNLV/TRC/RR-93/01, January 1993.
21. Lim, Soon-tin (graduate student), and Reginald R. Souleyrette (50%), *RADTRAN Analysis for the Canadian Spent Fuel Transportation Scenarios*, UNLV/TRC/RR-92/11, October 1992.
20. Yang, Xinnong (graduate student), Reginald R. Souleyrette (40%), and Elisabeth White (graduate student), *Rideshare Program User's Manual*, UNLV/TRC/RR-92/10, September 1992.
19. Souleyrette, Reginald R. (70%), and Soon-tin Lim (graduate student), *GIS-Based Characterization of Rail and Highway Access to Yucca Mountain*, UNLV/TRC/RR-92/05, September 1992.

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18. Parentela, Emelinda M. (graduate student), Sathisan, Shashi K., Reginald R. Souleyrette (20%), and Edward S. Neumann, *Development of a Knowledge-Based Decision Support System*, UNLV/TRC/RR-92/07, August 1992.
17. Sathisan, Shashi K., and Reginald R. Souleyrette (50%), *Recommendations for Implementation of GIS at the Nevada DOT*, UNLV/TRC/RR-92/06, August 1992.
16. di Bartolo, Russell, and Reginald R. Souleyrette (50%), *Report of the Environmental Advisory Team on the Canadian High-level Nuclear Waste Disposal Concept, Vol. III, Technical Appendix - Transportation*, for Beak Consultants Ltd., February 1992.
15. Souleyrette, Reginald R. (50%), and Kristin Pryor (graduate student), *An Assessment of RADTRAN Capabilities and Limitations*, UNLV/TRC/RR-91/03, December 1991.
14. Sathisan, Shashi K., and Reginald R. Souleyrette (40%), *GIS Applications in the Development of a Nuclear Waste Transportation Modeling System*, UNLV/TRC/RR-91/06, December 1991.
13. Sathisan, Shashi K., Reginald R. Souleyrette (30%), Edward S. Neumann, and Russell di Bartolo, *Transportation System Base Case Conditions* (two volumes), UNLV/TRC/RR-91/04, August 1991.
12. Parentela, Emily (graduate student), Reginald R. Souleyrette (40%), and Shashi K. Sathisan, *Trip Generation Analysis Report: Hotels-Casinos within the Las Vegas Urbanized Area*, UNLV/TRC/RR-91-01, August 1991.
11. Souleyrette, Reginald R. (50%), Shashi K. Sathisan, and Russell di Bartolo, *Yucca Mountain Transportation Routes: Preliminary Characterization and Risk Analysis*, UNLV/TRC/RR- 91/02, May 31, 1991.
10. Parentela, Emily (graduate student), Reginald R. Souleyrette (35%), and Shashi K. Sathisan, *A Study of the Requirements for Modeling Bus Operations*, UNLV/TRC/RR-90-03, November 1990.
9. Parentela, Emily (graduate student), Shashi K. Sathisan, and Reginald R. Souleyrette (20%), *Guidelines for Geometric Design and Location of Bus Turnouts*, UNLV/TRC/RR-90-02, November 1990.
8. Parentela, Emily (graduate student), Shashi K. Sathisan, and Reginald R. Souleyrette (20%), *Effectiveness of Las Vegas Boulevard Bus Turnouts*, UNLV/TRC/RR-90-01, April 1990.
7. Sathisan, Shashi K., Russell di Bartolo, and Reginald R. Souleyrette (30%), *Functional Requirements for a Geographic Information System at the Regional Transportation Commission of Clark County*, UNLV/TRC/NW-90/02, October 1990.
6. Souleyrette, Reginald R., *Transportation Services and Residential Housing Construction: A Study of the Relations between Transportation and Production* (Ph.D. Dissertation), William L. Garrison, Chair, Michael Teitz and Mark Hansen, University of California, Berkeley, Dissertation Series, 1989, and University Microfilms International, 1990.
5. Souleyrette, Reginald R. (80%), and Francesc Robuste, *TRAVEL User's Manual: Trade, Transport, and Reversal - Simulated Annealing for Vehicle Routing on L-metrics*, Technical Document UCB-ITS-TD-88-3, University of California, Berkeley, February 1988.
4. Robuste, Francesc, and Reginald R. Souleyrette (20%), *CALHOP User's Manual: A Computer Program for the Routing of Vehicles with Simulated Annealing*, Technical Document UCB-ITS-TD-88-2, University of California, Berkeley, January 1988.
3. Gosling, Geoffrey D., and Reginald R. Souleyrette (30%), *Alternative Control Strategies for Air Traffic Flow Management*, University of California, Berkeley, May 1987.

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2. Souleyrette, Reginald R. (70%), C. Michael Walton, and Hani S. Mahmassani, *Identification of Candidate Toll Roads in Current and Future Highway Development*, Research Report FHWA/TX-87/23+413/1F, University of Texas at Austin, August 1986.
1. Katz, James, Reginald R. Souleyrette (10%), et al., *The Safety of Robert Mueller Airport*, Policy Research Project, LBJ School of Public Affairs, University of Texas at Austin, July 1986.

4.2 Publications in Abstract-Reviewed Proceedings

28. Plazak, David J. and Reginald R. Souleyrette (20%), "Process to Identify High Priority Corridors for Access Management Near Large Urban Areas in Iowa Using Spatial Data," Mid-Continent Transportation Research Symposium, Ames, August 21-22, 2003.
27. Hans, Zachary N., Ryan J. Tenges (graduate student), Shauna L. Hallmark, Reginald R. Souleyrette (10%), and Sitansu B. Pattnaik (graduate student), "Use of LiDAR-Based Elevation Data for Highway Drainage Analysis: A Qualitative Assessment," Mid-Continent Transportation Research Symposium, Ames, August 21-22, 2003.
26. Pattnaik, Sitansu (graduate student), Shauna Hallmark and Reginald R. Souleyrette (20%), "Collecting Road Inventory using LIDAR Surface Models" Map India, Delhi, January 31, 2003.
25. Souleyrette, Reginald R. (80%) and Sitansu Pattnaik (graduate student), "Designing a Traffic Monitoring Program using Landuse Change Detection," Map India, Delhi, January 31, 2003.
24. Khattak, Aemal J., Michael D. Pawlovich and Reginald R. Souleyrette (15%), "Crash Injury Severity of Older Drivers in Iowa," *Proceedings of the Mid-Continent Transportation Symposium*, Ames, Iowa, May 15-16, 2000, pp. 235-240.
23. Preissig, David T. (graduate student), and Reginald R. Souleyrette (40%), "Multimodal Statewide Freight Transportation Modeling Process," *Metropolitan Conference on Public Transportation Research*, University of Illinois at Chicago, June 11, 1999, pp. 147-156.
22. Souleyrette, Reginald R. (60%), and Daniel J. Gieseman, "Development of an Automated Crash Location System for Iowa," *Geographic Information Systems for Transportation Symposium*, AASHTO, San Diego, CA, April, 1999 (http://www.bts.gov/programs/gis/BTSWEB/GIS-T_99/Session_23/232.html).
21. Anderson, M.D. (graduate student), and R.R. Souleyrette (25%), "Quick-Response Bypass Forecasting for Small Urban Communities using an Economic Gravity Model for External Trip Analysis," *Crossroads 2000*, Ames, IA, August 19-20, 1998, pp. 67-70.
20. Anderson, M.D. (graduate student), and R.R. Souleyrette (25%), "Simulating Traffic for Incident Management and ITS Investment Decisions," *Crossroads 2000*, Ames, IA, August 19-20, 1998, pp. 7-11.
19. Pawlovich, M.D. (graduate student), R.R. Souleyrette (25%), and T.R. Strauss, "A Methodology for Studying Crash Dependence on Demographic and Socioeconomic Data," *Crossroads 2000*, Ames, IA, August 19-20, 1998, pp. 209-215.
18. Schuman, W.G., T.R. Strauss, D. Geiseman (graduate student), and R.R. Souleyrette (10%), "Iowa DOT Statewide Coordinated GIS," *Crossroads 2000*, Ames, IA, August 19-20, 1998, pp. 187-191.
17. Cao, Chunlin (graduate student), Tim Strauss, Reg Souleyrette (10%), and Duane Shinn, "Transportation and Urban Form: A Case Study of the Des Moines Metropolitan Area," *Crossroads 2000*, Ames, IA, August 19-20, 1998, pp. 232-237.

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16. Estochen, B.M. (graduate student), T.R. Strauss, and R.R. Souleyrette (20%), "An Assessment of Emergency Vehicle Response Pre-Deployment Using GIS Identification of High-Accident Density Locations," *Crossroads 2000*, Ames, IA, August 19-20, 1998, pp. 221-226.
15. Souleyrette, R. (50%), T. Strauss, M. Pawlovich, and B. Estochen, "Safety Data in a GIS Environment: New Tools for the Four Es," *24th Annual International Forum on Traffic Records and Highway Information Systems*, Minneapolis, MN, July 26-29, 1998.
14. Souleyrette, R. (50%), T. Strauss, M. Pawlovich, and B. Estochen, "GIS ALAS, The Integration and Analysis of Highway Crash Data in a GIS Environment," *Geographic Information Systems for Transportation Symposium*, AASHTO, Salt Lake City, Utah, April 20-22, 1998, pp. 411-428.
13. Hans, Z.N., O.G. Smadi, T.H. Maze, R.R. Souleyrette (10%), and J.L. Resler, (graduate student), "Iowa's Pavement Management Program Database: Issues and Design Considerations," *Maintenance Management*, AASHTO/TRB, Saratoga Springs, New York, July 1997.
12. Pawlovich, Michael D. (graduate student), and Reginald R. Souleyrette (50%), "A GIS-based Accident Location and Analysis System," *TRB Semisesquicentennial Transportation Conference*, Ames, Iowa, May 1996, pp. 29-34.
11. Mescher, Philip J. (graduate student), and Reginald R. Souleyrette (50%), "Utilization of a Geographic Information System to Facilitate the Bicycle Facility Planning Process," *AASHTO GIS-T Symposium*, Kansas City, April 1996, pp. 283-306.
10. Souleyrette, Reginald R., "Issues in Implementing GIS and GPS," *Professional Surveyor*, Vol. 15, No.7, October 1995, pp. 24-30.
9. Maze, T.H., A.G. Smadi, and R.R. Souleyrette, "An Iowa Approach to Statewide Freight Demand Models or the Onion Approach to Freight Demand Forecasting," invited paper in *Proceedings of the Urban Goods and Freight Forecasting Conference*, Albuquerque, NM, September 1995, pp. 13.1-13.8.
8. Souleyrette, Reginald R. (50%), John Whitaker, and Shashi K. Sathisan, "Options for Implementation of GIS at the Nevada DOT," *AASHTO GIS-T Symposium*, Albuquerque, NM, 1993, pp. 291-301.
7. Souleyrette, Reginald R. (70%), Walter C. Vodrazka, and Fred C. Dilger III, "Using GIS to Support Regional Transportation Modeling," *Ninth International Conference on Systems Engineering*, Las Vegas, NV, 1993, pp. 146-150.
6. Parentela, Emily, Reginald R. Souleyrette (40%), and Daniel R. Croce (graduate student), "GIS as a Traffic Monitoring System Tool," *46th ITE District 6 Meeting Compendium of Technical Papers*, Las Vegas, NV, 1993, pp. 111-118.
5. Dilger, Fred C. III, Peter Lima, and Reginald R. Souleyrette (30%), "A Geographical Information/Transportation Modeling System," *46th ITE District 6 Meeting Compendium of Technical Papers*, Las Vegas, NV, 1993, pp. 85-90.
4. Sathisan, Shashi K., Emelinda M. Parentela, Reginald R. Souleyrette (20%), and Edward S. Neumann, "Knowledge-Based Expert System to Monitor Impacts of Transporting Radioactive Materials," *International Conference on Artificial Intelligence Applications in Transportation Engineering*, San Buenaventura, CA, June 20-24, 1992, pp. 479-492.
3. Parentela, Emily (graduate student), Shashi K. Sathisan, and Reginald R. Souleyrette (25%), "A Study of the Effectiveness of Bus Turnouts," *43rd ITE District 6 Meeting*, Boise, ID, 1990, pp. 237-246.
2. Garrison, William L., and Reginald R. Souleyrette (40%), "Transportation, Innovation, and the Space Economy," *1989 Meeting of the Regional Sciences Association*, Santa Barbara, CA, October 1989.

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1. Walton, C. Michael, Reginald R. Souleyrette (40%), and Hani S. Mahmassani, "Tolling Concepts in Highway Financing," *Symposium on Innovative Financing for Transportation: Sharing Solutions to Shared Problems*, University of Virginia, December 11-13, 1985.

4.3 Presentations

98. "Process to Identify High Priority Corridors for Access Management Near Large Urban Areas in Iowa Using Spatial Data," Mid-Continent Transportation Research Symposium, Ames, August 21-22, 2003.
97. "Spatial Data and Remote Sensing Applications in Transportation Research," Invited seminar and videoconference, Kittelson and Associates, Inc., Broadcast from Portland, Oregon, July 14, 2003.
96. "Marketing Outside the Highway Safety Arena: Iowa's ERIS project," 54th Annual Traffic and Safety Conference and Seminars, Columbia, Missouri, May, 2003.
95. "LIDAR Applications and Tests," Midwest Regional Remote Sensing in Technology Workshop, Sponsored by the National Consortium on Remote Sensing in Transportation, Madison, April, 2003.
94. "Spatial Data Systems for Road Planning and Design," Workshop, MapIndia 2003, Delhi, India, January, 2003.
93. "Designing a Traffic Monitoring Program using Landuse Change Detection, MapIndia 2003, Delhi, India, January, 2003.
92. "GPS to LRM: Integration of Spatial Point Features with Linear Referencing Methods (poster)," TRB, January, 2003.
91. "Crash Information Systems," Mid America Transportation Center Seminar (invited lecture), Omaha, NE, December, 2002.
90. "Unmanned Aerial Vehicles in Transportation Research," invited lecture, Department of Civil and Environmental Engineering, Indian Institute of Technology, Madras, Chennai, India, November 2002.
89. With Shauna Hallmark, David Veneziano (grad student) and Sitansu Pattnaik (grad student), "Evaluation of LIDAR for Highway Planning, Location and Design," Pecora 15/Land Satellite Information IV Conference, 10-15 November 2002, Denver, CO.
88. "Marketing Outside the Highway Safety Arena: A Case Study (Iowa's ERIS project)," 28th International Forum on Traffic Records and Highway Information Systems, Orlando, FL, August 2002.
87. "Using Remote Sensing Data for Access Management" (poster), TRB Annual Access Management Conference, Austin, TX, June 2002.
86. With Richard Storm (graduate student), "Methods to Implement Geographic Information Systems for Validation and Reasonableness Checks of Transportation Planning Models," Thirteenth Annual Transportation Research Conference, Center for Transportation Studies, University of Minnesota, St. Paul, MN, May 2002.
85. "Airborne LASER Swath Mapping Assessment," Steering Committee of the National Consortia for Remote Sensing in Transportation, Santa Barbara, CA, February 2002.
84. "Systematic Identification of High Crash Locations," TRB, National Academy of Sciences, Washington, DC, January 2002.
83. Poster and Computer Demonstration on Remote Sensing in Transportation, TRB Conference on Remote Sensing, National Academy of Sciences, Washington, DC, December 2001.

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82. "Systematic Identification of High Crash Locations," Missouri Valley Section, ITE, Ames, IA, October 2001.
81. "Iowa Traffic Data Safety Service," Multidisciplinary Safety Teams Meeting (sponsored by the Governor's Traffic Safety Bureau), September 2001.
80. "Systematic Identification of High Crash Locations," 6th Annual Traffic and Safety Engineering Forum, Des Moines, IA, September 2001.
79. "Remote Sensing for Transportation Research at ISU," TRB/NCRST MidWest Tri-State DOT Technology Exchange Meeting, Decorah, IA, August 14, 2001.
78. "Iowa Traffic Data Safety Service," International Traffic Records Forum, New Orleans, LA, July 31 2001.
77. "Transportation Applications of Advanced Geo Surface Modeling," National Science Foundation Workshop on Advanced Geosurficial Mapping, Gainesville, FL, July 2001.
76. "Remote Sensing Applications in Infrastructure Management," poster presentation to Congress, Senate Russell Building, April 17, 2001.
75. "Remote Sensing for Access Management and Collection of Inventory Elements," Steering Committee of the National Consortia for Remote Sensing in Transportation, Gainesville, April 2001.
74. Moderator, "Traffic Safety Tools Lab," Iowa State Traffic Accident Records Symposium, Ames, February 2001.
73. "Transportation Safety Analysis Tools," NHTSA National Model Conference, Des Moines, IA, November 2000.
72. Invited Speaker, "Transportation and Society: Looking Back to Look Forward," UNLV University Forum, October 16, 2000. (Presentation also given to UNLV ASCE student chapter.)
71. "Iowa Traffic Safety Data Service," Iowa Traffic and Safety Engineering Forum, Des Moines, IA, October 16, 2000.
70. "Iowa State University/CTRE NCRST-I Projects," Steering Committee of the National Consortia for Remote Sensing in Transportation, Santa Barbara, CA, October 2000.
69. "Identifying High-Crash Locations with Data Fusion," Mid-Continent Transportation Symposium, Ames, IA, May 15-16, 2000.
68. "Iowa Traffic Safety Data Service," Iowa Statewide Traffic Records Advisory Committee Meeting, Ames, IA, April 12, 2000.
67. Moderator, session on GIS for highway safety, AASHTO GIS-T Annual Conference, Minneapolis, MN, March 27-29, 2000.
66. "Innovative GIS Display of Crash Data," Iowa Traffic Engineering and Safety Forum, Des Moines, IA, December 15, 1999.
65. "Spatial Data & Remote Sensing: Next Steps," Pecora 14/Land Satellite Information III Remote Sensing Symposium and Conference, Denver, CO, December 9, 1999.
64. "Development of the Iowa Traffic Safety Data Service," Iowa Traffic Control and Safety Association Fall Conference, Ames, IA, October 21, 1999.
63. "GIS-ALAS: Locating and Analyzing Crash Locations within a GIS Environment," Coordinating GIS for Iowa's Future, Iowa Geographic Information Council, Storm Lake, IA, July 28-30, 1999.

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62. "Smart Maps – Crash Locations & GIS Accident Location and Analysis System (ALAS)" (plenary session and workshops), Region Seven Data Conference, National Highway Traffic Safety Administration, Kansas City, June 8-10, 1999.
61. "Development of an Automated Crash Location System for Iowa," Geographic Information Systems for Transportation Symposium, AASHTO, San Diego, CA, March 1999.
60. "A Smart-Map Methodology for In-vehicle Crash Location," Iowa National Model for Highway Safety Conference, Des Moines, IA, December 9, 1998.
59. "A Proposed Crash Location Enhancement for Advantage Safety," Statewide Traffic Records Advisory Committee, Ames, IA, October 22, 1998.
58. "Improved Employment Data for Transportation Planning," Midwest Transportation Model Users Group, Ames, IA, September 16, 1998.
57. "Validating Freight Transportation Models," Crossroads 2000, Ames IA, August 19-20, 1998.
56. "GIS for Transportation Asset Management in Iowa," Transportation, Land Use and the Environment: International, National and Local Perspectives, TRB, Seattle, WA, July 12-14, 1998.
55. "Safety Data in a GIS Environment: New Tools for the Four Es," 24th Annual International Forum on Traffic Records and Highway Information Systems, Minneapolis, MN, July 26-29, 1998.
54. "Iowa Travel Model Performance, 20 Years Later," ASCE Urban Transportation Division National Specialty Conference: Transportation, Land Use and Air Quality, Portland, OR, May 17-20, 1998.
53. Moderator, "GIS Applications, Challenges and Rewards," ASCE Urban Transportation Division National Specialty Conference: Transportation, Land Use and Air Quality, Portland, OR, May 17-20, 1998.
52. "The Development and Use of Geographic Information Systems in Transportation Research and DOT Applications," Mid-America Transportation Center Distinguished Lecture and Transportation Series (satellite broadcast), Ames, IA, April 30, 1998.
51. "GIS ALAS, The Integration and Analysis of Highway Crash Data in a GIS Environment," Geographic Information Systems for Transportation Symposium, AASHTO, Salt Lake City, UT, April 20-22, 1998.
50. "GIS-ALAS - Mapping Highway Safety in Iowa," Governor's Highway Traffic Safety Conference, Bettendorf, IA, March 25-26, 1998.
49. "GIS Data Management and Distribution for Pavement Management," Iowa Pavement Management Workshop, Ames, March 11, 1998.
48. "A GIS-T for Managing Iowa's Transportation Assets," Annual Meeting of TRB, Washington, DC, January 1998.
47. Moderator, Implementation of GPS/GIS Panel, Iowa County Engineer Conference, Ames, IA, December 3, 1997.
46. "GIS in Transportation Research," Iowa Engineering Society, Ames, IA, October 23, 1997.
45. Moderator, "Iowa Transportation Applications," Third Annual Iowa Conference on Geographic Information Systems, Cedar Falls, IA, October 7, 1997.
44. "GIS for Transportation Research in Iowa," Third Annual Iowa Conference on Geographic Information Systems, Cedar Falls, IA, October 7, 1997.

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43. "Introduction to GIS and GPS for County Road Maintenance," Iowa County Road Superintendents Conference, Ames, IA, September 25, 1997.
42. "A Desktop GIS-based Travel Demand Model for Small to Medium Sized Areas," First Annual Iowa Transportation Planning Conference, Ames, IA, August 26, 1997.
41. "GIS Accident Location and Analysis System," Area 3 Annual Conference of the Highway Engineering Exchange Program, Ames, IA, April 9, 1997.
40. "Current Traffic/Safety Research," Iowa Traffic/Safety Engineering Forum, Grinnell, IA, April 2, 1997.
39. "GIS Applications for Public Works," Annual Meeting, Iowa Chapter, American Public Works Association, Ames, IA, March 7, 1997.
38. "GIS Applications for County Engineering," Annual Meeting, Iowa County Engineers Association, Ames, IA, December 4, 1996.
37. "Statewide Freight Demand Modeling: A Multi-Commodity Layered Approach," FHWA National Freight Planning Applications Conference, San Antonio, TX, October 14-16, 1996.
36. "Statewide Freight Demand Modeling: A Multi-Commodity Layered Approach," Third Annual ASCE/Nevada Transportation Conference, Las Vegas, NV, September 1996.
35. Moderator, "Application Showcase: Public Health and Transportation," Second Annual Iowa Conference on Geographic Information Systems, October 8, 1996.
34. "Resources Available to Address MPO and State Technical Assistance and Research Needs," Midwest Regional MPO Conference, "Towards NEXTEA," Kansas City, July 1996.
33. "GIS for the Iowa DOT," Annual Transportation Conference, Iowa DOT, Ames, IA, March 1996.
32. Coordinator and Moderator, Session on Transportation Applications, First Annual Iowa GIS Conference, Iowa City, IA, November 8, 1995.
31. "GIS for Analysis of Employment Data," Iowa Department of Employment Services, Des Moines, IA, September 11, 1995.
30. Invited speaker, "A GIS-QRS Methodology to Develop Travel Models for Smaller Urban Areas," Second Annual ASCE/Nevada Transportation Conference, Las Vegas, NV, September 16, 1995.
29. "GIS-T for Locals: Past, Present and Future," National Annual Conference of Local Technology Assistance Programs, FHWA, Kansas City, August 7, 1995.
28. "GIS and GPS for County Engineering," Mid-year Meeting/Conference of the Iowa County Engineers Association, Ames, IA, July 20, 1995.
27. Moderator, session on GIS Tools, AASHTO GIS-T Annual Conference, Sparks, NV, April 2-5, 1995.
26. "GIS and GPS for Transportation Engineering: A Primer," 6th Annual Midwest Traffic Engineering and Parking Seminar, Peoria, IL, March 30-31, 1995.
25. "Geographic Information Coordination," Iowa Rural Development Council, Des Moines, IA, December 9, 1994.
24. "GIS and GPS for Transportation: A Primer," Joint Annual Meeting of the Missouri Valley Section, ITE and the Iowa Traffic Control and Safety Association, Des Moines, IA, November 11, 1994.
23. Session coordinator and moderator, "Geographic Information Systems," Joint Annual Meeting of the Missouri Valley Section, ITE and the Iowa Traffic Control and Safety Association, Des Moines, IA, November 11, 1994.

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22. "Geographic Information Systems, Mapping Iowa's Future," First Iowa Conference on Highway Safety Information Systems, Waterloo, IA, November 3, 1994.
21. "GIS for Travel Demand Modeling," Midwest Transportation Center P.I.'s Conference, Ames, IA, August 11, 1994.
20. "Geographic Information Systems for Transportation," Iowa Association of Regional Councils Annual Conference, Carroll, IA, May 19, 1994.
19. "GIS at the Iowa Transportation Center," GIS Open House, Geographic Information System Support and Research Facility, ISU, Ames, IA, April 28, 1994.
18. "GIS Development at the Iowa DOT," Spring Meeting of the Iowa Chapter of AM/FM International, Amana, IA, April 20, 1994.
17. "Demonstration of Geographic Information Systems for Transportation," Iowa DOT Annual Transportation Fair, Ames, IA, February 25, 1994.
16. "Traffic Growth" A Self Limiting Process," Interdisciplinary Scholars Seminar, Midwest Transportation Center, ISU/University of Iowa, February 11, 1994.
15. "Placarding and Signing for Hazardous Materials Shipments," TRB Hazardous Materials Transportation Conference, Albuquerque, NM, August 24, 1993.
14. "Organization and Time Management," New Faculty Workshop of the PSW Section Annual Conference, American Society for Engineering Education, Los Angeles, CA, October 16, 1992.
13. "GIS/Rail Routes for Nuclear Waste," 5th Biennial Railroad Safety Conference, Sparks, NV, July 28-30, 1992.
12. "TIGER Data Improves GIS Analytical Capabilities for Studies of Nuclear Waste Transportation at UNLV," Second Annual Nevada State GIS Conference, Las Vegas, NV, December 15-17, 1991.
11. "Applications of Geographic Information Systems to the Transport of Hazardous Wastes," Transportation Science Seminar, Institute of Transportation Studies, University of California, Berkeley, October 4, 1991.
10. "Applications of Geographic Information Systems to the Transport of Hazardous Wastes," Center for Advanced Transportation Research, Arizona State University, September 24, 1991.
9. "Transportation Access to Yucca Mountain: Critical Issues," ASCE/ANS International High-Level Radioactive Waste Management Conference: Public Safety and Technical Achievement, Las Vegas, NV, April 28-May 3, 1991.
8. "Geographic Information Systems in Transportation Research: State and Regional Applications," 14th Annual AM/FM (Automated Mapping/Facilities Management) International Conference, San Diego, CA, March 23-27, 1991.
7. Moderator, "GIS in Transportation Tract," 14th Annual AM/FM (Automated Mapping/Facilities Management) International Conference, San Diego, CA, March 23-27, 1991.
6. With Shashi K. Sathisan, "Geographic Information Systems Applications for State and Regional Transportation Studies," First Annual Nevada State GIS Conference, Carson City, NV, December 13-14, 1990.
5. "The Relations between Transportation and Production," Annual Meeting of TRB, Washington, DC, January 1990.
4. Transportation, Innovation, and the Space Economy," Annual Meeting of the Regional Sciences Association, Santa Barbara, CA, November 1989.

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3. "Transportation Services and Residential Housing Construction: A Study of the Relations between Transportation and Production," Transportation Science Seminar, Institute of Transportation Studies, University of California, Berkeley, April 28, 1989.
2. "An Operational Typology for Toll Financing of Highway Facilities," Annual Meeting of TRB, Washington, DC, January 1986.
1. "An Operational Typology for Toll Financing of Highway Facilities," Winter Meeting of the District 5 ITE, College Station, TX, February 1986.

4.4 Grants and Contracts (\$6,320,000 total; \$4,356,000 as P.I.; \$1,964,000 as co-P.I.)

95. Co-P.I. (20%), "City of West Des Moines Growth Research Project," City of West Des Moines, October 2003-April 2004 (\$55,079), one undergraduate student funded.
94. P.I., "Iowa Traffic Safety Data Service: Phase 5," Governor's Traffic Safety Bureau, October 2003-September 2004 (\$75,000), two graduate and one undergraduate students funded.
93. P.I., "Traffic Monitoring Program Planning with Remote Sensing," Iowa DOT, May 2003-May 2004 (\$27,500), one graduate student funded.
92. P.I., "Incident Location Tool Support for Florida State University," Florida State University through Iowa DOT, September 2003-November 2003 (\$14,864), two undergraduate students funded.
91. P.I., "Crash Mapping and Analysis Tools: Traffic and Criminal Software interface Framework," Iowa DOT, Addendum 138, April 2003-September 2003 (\$29,177), two undergraduate students funded.
90. P.I., "Effectiveness of All Red Clearance Time on Intersection Accidents and Violation Trends," Minnesota DOT Local Roads Research Board, May 2003 – February 2004, (\$49,978), one undergraduate student funded.
89. P.I., "Weatherview Phase III Support," Iowa DOT, October 2002-September 2003 (\$67,627).
88. P.I., "Incident Location Tool Support for Delaware State Police," Delaware Dept. of Public Safety, October 2002-March 2003 (\$49,017), two undergraduate students funded.
87. P.I., "Iowa Traffic Safety Data Service: Phase 4," Governor's Traffic Safety Bureau, October 2002-September 2003 (\$75,000), two graduate and one undergraduate students funded.
86. P.I., "Vendor Weather Forecast," Iowa DOT, August-October 2002 (\$12,242).
85. P.I., "Iowa Department of Transportation Linear Referencing System: Preliminary Linear Data Creation," Iowa DOT Addendum 112, May 2002-June 30, 2004 (\$239,102), one graduate and two undergraduate students funded.
84. P.I., "Incident Location Tool for Georgia DOT," Georgia DOT, July 2002-March 2003 (\$50,000), one undergraduate student funded.
83. P.I., "Incident Location Tool for New York State Police," Technology Enterprise Group, April 2002-September 2002 (\$50,000), one graduate student funded.
82. Co-P.I. (25%), "Planning, Implementation, and Operation of the Iowa Pavement Management Program, Phase VIII," Iowa DOT, June 2002-May 2003 (\$201,094), two graduate and two undergraduate students funded.
81. P.I., "Develop GIS-Based Incident Location Tool, Phase 8: Support for the Iowa DOT," Iowa DOT, July 2002-June 2003 (\$49,438+\$7923), one undergraduate student funded.

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80. Co-P.I. (50%), "Pedestrian Crossing Safety Technology Assessment," Iowa DOT, June-December 2002 (\$15,587), one undergraduate student funded.
79. P.I., "Change Detection Analysis: Phase 3," Iowa DOT, May 2002-May 2003 (\$17,500), one graduate student funded.
78. P.I., "Advanced Technologies in Roadway Feature Collection for Design, Performance, Emissions and Security Assessment: Phase 3," U.S. DOT/University of California, Santa Barbara, May 2002-May 2004 (\$97,596+\$10,000 extension), two graduate students funded. (Includes "Outreach to India" component, two visits to India, 2002 and 2003, to transfer technology, exchange ideas and pursue collaborative opportunities related to remote sensing, GIS and infrastructure development).
77. P.I., "Iowa DOT Internet-Based Road Work Report, Phase 3, CY 2002," Iowa DOT, April-December 2002 (\$19,880), one undergraduate student funded.
76. P.I., "GIS-ALAS TraCS Conversion Software," Governor's Traffic Safety Bureau, October 2001-September 2002 (\$21,000), one undergraduate student funded.
75. P.I., "Iowa Traffic Safety Data Service, Phase 3," Governor's Traffic Safety Bureau, October 2001-September 2002 (\$50,000), two undergraduate students funded.
74. P.I., "Development of Internet Based RWIS (Roadway Weather Information System) AWOS (Airport Weather Observation System) Information Delivery Tools (Weatherview): Phase 2," Iowa DOT, Maintenance Division, August 2001-September 2002 (\$75,161), one graduate student funded.
73. P.I., "Develop GIS-Based Incident Location Tool, Phase 7: Implementation and Agency Support (additional tasks)," Iowa DOT, July 2001-June 2002 (\$59,994), one undergraduate student funded.
72. Co-P.I. (50%), "Application of Advanced Remote Sensing Technology to Transportation Asset Management," Midwest Transportation Consortium and Iowa DOT, August 2001-February 2003 (\$226,455), one graduate student funded.
71. P.I., "Causation and Mitigation of High Crash Locations: Enhancing the Iowa Traffic Safety Data Service," Iowa DOT, Addendum 82, June 2001 – June 2004 (\$91,964), two graduate students funded.
70. Co-P.I. (50%), "Comparison of LIDAR and Photogrammetry for Highway Planning and Design," Phase 2, Iowa DOT, May 2001-May 2002 (\$27,552) , one graduate student funded.
69. P.I. (50%), "Use of Remotely Sensed Data for Infrastructure Management: Phase 2," U.S. DOT/University of California, Santa Barbara, May 2001-May 2002 (\$94,750), two graduate students funded.
68. Co-P.I. (25%), "Planning, Implementation, and Operation of the Iowa Pavement Management Program: Phase 7," Iowa DOT, May 2001-April 2002 (\$245,669), three graduate students funded.
67. Co-P.I. (30%), "Identification of High Priority Corridors for Access Management," Iowa DOT, April 2001-March 2002 (\$45,000), one undergraduate student funded.
66. P.I., "Iowa DOT Internet-Based Road Work Report, Phase 2, CY 2001" Iowa DOT, March-December 2001 (\$20,895), one undergraduate student funded.
65. P.I., "Develop GIS-Based Incident Location Tool, Phase 6: Implementation and Agency Support," Iowa DOT, January-June 2001 (\$45,000), two undergraduate students funded.
64. P.I., "Iowa Traffic Safety Data Service, Phase 2," Governor's Traffic Safety Bureau, October 2000-September 2001 (\$15,000), one graduate student funded.
63. P.I., "Emergency Response Information System (ERIS): Phase 2" Iowa Department of Health, October 2000-September 2001 (\$25,000), one graduate and one undergraduate student funded.

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62. P.I., "Develop GIS-Based Incident Location Tool, Phase 5: Implementation and Agency Support," Iowa DOT, July-December 2000 (\$30,392) , two undergraduate students funded.
61. Faculty Associate (100% of these funds), "Origin Destination Model Estimation for I-235 Traffic Simulation Study," Sverdrup Corp., June 2000-June 2001 (\$10,000).
60. P.I., " Paved Shoulder Analysis and Public Information," funded under GIS Accident Location and Analysis System, GIS-ALAS (additional tasks), Iowa DOT, July 2000-June 2001 (\$15,000).
59. P.I., "Remote Sensing to Support Linear Referencing Systems: Phase 1," Iowa DOT, July 2000-June 2001 (\$22,500).
58. P.I., "Develop GIS-Based Incident Location Tool, Phase 4: Implementation and Local Agency Support," Iowa DOT, January-June 2000 (\$45,876) , two undergraduate students funded.
57. P.I., "Iowa DOT Internet-Based Road Work Report, Phase 1, CY 2000," Iowa DOT, March-December 2000 (\$20,000), one undergraduate student funded.
56. P.I., "Use of Remotely Sensed Data for Infrastructure Management, Access Management and Inventory: Phase 1," U.S. DOT/ University of California, Santa Barbara, May 2000-May 2001 (\$72,250), three graduate students funded.
55. Co-P.I. (25%), "Planning, Implementation, and Operation of the Iowa Pavement Management Program: Phase 6," Iowa DOT, February 2000-April 2001 (\$249,631), three graduate students and two undergraduate students funded.
54. Co-P.I. (15%), "Implementation of the Iowa DOT Pavement Management Optimization Model," Iowa DOT, February 2000-January 2001 (\$149,937).
53. P.I. (90%), "Systematic Identification of High Crash Locations," Iowa Highway Research Board, January 2000-June 2001 (\$126,235), one graduate student funded.
52. P.I., "Eisenhower Fellowship for Graduate Studies," Student: Chris Monsere, Topic: Field Validation and Computer Automation of Statewide Freight Flow Model, U.S. DOT, January 2000-December 2000 (\$27,000), one graduate student funded.
51. P.I., "Development of Internet Based RWIS (Roadway Weather Information System) AWOS (Airport Weather Observation System) Information Delivery Tools (AKA Weatherview): Phase 1," Iowa DOT, Maintenance Division, October 1999-September 2000 (\$94,180) , two undergraduate students funded.
50. P.I., "Iowa Traffic Safety Data Service: Phase 1," Governor's Traffic Safety Bureau, October 1999-September 2000 (\$15,000), one graduate student funded.
49. P.I., "Eisenhower Fellowship for Graduate Studies," Student: Richard Storm, Topic: GIS Based Calibration and Validation of Systems Planning Models, U.S. DOT, August 1999-August 2001 (\$36,600), one graduate student funded.
48. P.I., "Implementation of GIS at Iowa DOT, Phase 7: Construction Status Web Site (cont.), Linear Referencing System Team Support, and Technical Support of DOT GIS Team," Iowa DOT, June-December 1999 (\$30,686), two undergraduate students funded.
47. P.I., "Develop GIS-Based Incident Location Tool, Phase 3, Integration Support and Maintenance Services," Iowa DOT, Motor Vehicle Division, July-December 1999, (\$23,256).
46. P.I., "GIS/Tranplan Enhancement Project," Iowa DOT, Office of Systems Planning, June 1999-June 2000 (\$49,166), two graduate students funded.

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45. P.I., "GIS Accident Location and Analysis System (GIS-ALAS), Phase 3, Additional Tasks: Access-ALAS Interface, ERIS (Emergency Response Information System) Location Tool and Safety System Analysis/Documentation," Iowa DOT, January 1999-June 2001 (\$75,000), two graduate students funded.
44. P.I., "Crash Outcomes Data Evaluation System (CODES)," Iowa Department of Health, October 1998-September 2000 (\$33,500), one graduate student funded.
43. P.I., "GIS Accident Location and Analysis System (GIS-ALAS), Phase 3: Implementation," Iowa DOT, January 1999-June 2000 (\$109,991), two graduate and one undergraduate student funded.
42. P.I., "Develop GIS-Based Incident Location Tool, Phase 2, Implementation," Iowa DOT, Motor Vehicle Division, January-June 1999, (\$39,995).
41. P.I., "Development of Federal Data Workbooks and GIS Applications: Employment, Freight and Geospatial Data" U.S. DOT, Bureau of Transportation Statistics, September 1998-January 1999 (\$60,000), two graduate students funded.
40. Co-P.I. (50%), "Development and Training for a Crash Information System," City of Cedar Falls Police Department, September-December 1998 (\$3,941), one graduate student funded.
39. P.I., "Develop GIS-Based Incident Location Tool: Phase 1," Iowa DOT, Motor Vehicle Division, August-December 1998 (\$24,908).
38. P.I., "Maintenance Division Application Development and Training," Iowa DOT, Maintenance Division, February-December 1998, (\$23,130).
37. P.I., "Implementation of GIS at Iowa DOT, Phase 6: Support GIS Coordinating Committee, Develop Linear Reference System RFP, Develop GIS Applications in Environmental, GPS and Rail, Develop Construction Status Web Site, Onsite GIS Software Support, Roadside Development Application," Iowa DOT, February 1998-May 1999 (\$99,995), two undergraduate students and one graduate student funded.
36. P.I., "GIS Accident Location and Analysis System (GIS-ALAS): Phase 2," Iowa DOT, January-December 1998 (\$80,000), two graduate students funded.
35. P.I., "Coordination of Data Elements to support ISTEAM Management Systems, Phase 2, Statewide Implementation," Iowa DOT, July 1997-December 1998 (\$79,861), one graduate student funded.
34. Co-P.I. (25%), "Planning, Implementation, and Operation of the Iowa DOT Pavement Management Program, Phase 5: Implementation and Operation of the IPMP," Iowa DOT, January-December 1999 (\$249,056) three graduate students and three undergraduate students funded.
33. P.I., "Eisenhower Fellowship for Graduate Studies," Student: Dave Preissig, Topic: Multi-modal, Multi-commodity Statewide Freight Model, U.S. DOT, June 1996-May 1998 (\$48,610), one graduate student funded.
32. P.I., "Improved Employment Data for Transportation Planning," Iowa DOT, January 1997-June 1998 (\$76,433).
31. P.I., "GIS Traffic Planning Tools," Iowa Highway Research Board, May 1997-August 1998 (\$57,015), one graduate student funded.
30. P.I., "Implementation of GIS at Iowa DOT, Phase 5: Support GIS Coordinating Committee, Location Reference Team Support, Revise/Update GIS Strategic Plan, Develop GIS Data, Training, Standards and Procedures, Communications and Marketing Strategy, Test GIS Software for Systems Compatibility," Iowa DOT, April 1997-January 1998, (\$89,910), two undergraduate students and one graduate student funded.

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29. P.I., "GIS Accident Location and Analysis System (GIS-ALAS): Phase 1," Iowa DOT, January-December 1997 (\$75,798), two graduate students and one undergraduate student funded.
28. P.I., "Statewide Transportation Planning Model and Methodology Development Program, Phase 2: Freight Commodity Models," Iowa DOT, October 1996-December 1998 (\$105,586), two graduate students and two undergraduate students funded.
27. P.I., "GIS Technology Transfer of Transportation Modeling Environment to Local Agencies," Priority Technology Program of the FHWA, U.S. DOT, August-December 1996 (\$10,083), one graduate student funded.
26. P.I., "Eisenhower Fellowship for Graduate Studies," Student: Michael D. Anderson, Topic: Integration of Travel Demand Models and GIS, U.S. DOT, August 1996-May 1999 (\$72,000), one graduate student funded.
25. P.I., Coordination of Data Elements to support ISTE Management Systems: Phase 1," Iowa DOT, March 1996-June 1997 (\$119,992), two graduate students and one undergraduate student funded.
24. P.I., "Implementation of GIS at Iowa DOT, Phase 4: Support GIS Coordinating Committee, Mapping and Conversion, GPS Applications, Orthophotography Assessment, Support Iowa Geographic Information Council, and GIS Pilot Projects, including Sufficiency Data Access, Crash Node Mapping, Utility Inventory, Accidents and Roadside Features, Access Locations, Project Level Data, Detour Locations, Mitigation Areas, Routing, Parcel Inventory, Pavement Management, Travel Demand Modeling, Socioeconomics and Demographics, and Statewide Freight Flow Models," Iowa DOT, January 1996-March 1997 (\$117,500), one graduate student and two undergraduate students funded.
23. P.I., "Implementation of GIS at Iowa DOT, Phase 3: GIS Implementation Plan (continued), Applications Development, Training, Selection and Orientation of GIS Coordinator," Iowa DOT, July-December 1995 (\$18,988), two undergraduate students funded.
22. Faculty Associate (with Tom Maze, P.I.), "Early Deployment Study, Intelligent Transportation Systems for Des Moines, Iowa," FHWA, U.S. DOT and Iowa DOT, April 1995-July 1997 (responsible for approximately \$35,000 of the contract).
21. P.I., "Statewide Transportation Planning Model and Methodology Development Program, Phase 1," Iowa DOT and Midwest Transportation Center, January-December 1995 (\$101,556), two graduate students funded.
20. P.I., "Implementation of GIS at Iowa DOT, Phase 2: GIS Implementation Plan, Applications Development, Training, Database Development and Software Evaluation," Iowa DOT, January-June 1995 (\$39,561), one graduate student funded.
19. P.I., "Development of Applications for Interactive Transportation Planning GIS," Midwest Transportation Center and the Iowa DOT, December 1994-June 1996 (\$94,402), one graduate student, two undergraduate students funded.
18. P.I., "Newsletter Publication and Administrative Support of Iowa Geographic Information Council," Iowa Department of Economic Development/Iowa Rural Development Commission and other agencies, December 1994-December 1996 (\$4,962).
17. P.I., "Eisenhower Fellowship for Graduate Studies," Student: Michael D. Anderson, U.S. DOT, September 1994-May 1996 (\$40,714), one graduate student funded.
16. P.I., "Development of Computer Code and ITC GIS Lab Facility," Iowa DOT, January-September 1994 (\$8,769).

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15. P.I., "Implementation of GIS at Iowa DOT, Phase 1: GIS Strategic Plan and Institutional Structural Assessment" Iowa DOT, June 1993-December 1994 (\$115,303 plus additional award for computing equipment: Intergraph Interpro 6750 Workstation, \$39,725), two graduate students funded.
14. P.I., "High Speed Computing to Facilitate Real Time Analysis of Transportation Planning Alternatives through GIS," Midwest Transportation Center and Iowa DOT, July 1993-September 1994, (\$65,920), one graduate student funded.
13. P.I., "A GIS-Based Travel Demand Modeling System for Supercomputing," Cray Research, Inc., January-December 1993 (\$18,500), one undergraduate student funded.
12. P.I., "Needs Assessment: Traffic Data Storage, Processing, and Dissemination," Nevada DOT, January-December 1992 (\$25,000), one graduate student funded.
11. P.I., "GIS Planning and Resource Mapping for the Lake Mead National Recreation Area," U.S. National Park Service, January-December 1992 (\$83,297), one graduate student and one undergraduate student funded.
10. P.I., "Development of a Census Geography to Traffic Analysis Zone Correspondence Table," Regional Transportation Commission of Clark County, Nevada, January-December 1992, (\$10,000), one undergraduate student funded.
9. Co-P.I. (50%) (with Shashi Sathisan), "Functional Requirements Study for a Geographical Information System at the Nevada DOT," Nevada DOT, January-December 1992 (\$24,000), one graduate student funded.
8. P.I., Cooperative Agreement between the Nevada DOT, Southern Nevada Planning Division and the UNLV Transportation Research Center, "Southern Nevada Transportation Planning and Modeling," May-August 1992 (\$38,200), funding for one analyst and four engineering coop students provided directly by the Nevada DOT.
7. P.I., "GIS for Colorado River Transportation Study Automation," City of Bullhead City, AZ, January-December 1992 (\$31,721), one undergraduate student funded.
6. P.I., "Development of a Computerized System for Travel Demand Management – Rideshare Matching," Clark County Regional Transportation Commission, January-December 1992 (\$20,000), one graduate student funded.
5. P.I., "GIS-Based Assessment of Impacts of Rail Access to Yucca Mountain," Nevada Agency for Nuclear Projects, Carson City, NV, January-December 1992 (\$55,009), two graduate students and two undergraduate students funded.
4. P.I., "Application of RADTRAN to Nevada Transportation Routes," Nevada Agency for Nuclear Projects, Carson City, NV, January-December 1992 (\$13,712).
3. P.I., Cooperative Agreement between the Nevada DOT, Southern Nevada Planning Division and the UNLV Transportation Research Center, "Southern Nevada Transportation Planning and Modeling," May-August 1991 (\$23,400), funding for one analyst and two engineering coop students provided directly by the Nevada DOT.
2. Co-P.I. (33%) (with Shashi Sathisan, Russell di Bartolo), "Yucca Mountain Transportation Routes: Preliminary Characterization and Risk Analysis," Nevada Agency for Nuclear Projects, August 1989-December 1991 (\$450,000), two graduate students and two undergraduate students funded.
1. P.I., "Trip Generation Analysis," Regional Transportation Commission of Clark County, NV, August 1990-May 1991 (\$45,000), one graduate student and three undergraduate students funded.

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4.5 Proposals (see Section 4.4, Grants and Contracts)

4.6 Unsponsored Research

- Remote Sensing Applications in Transportation, 1999. (One graduate student completed thesis on this topic.)
- A Forensic Analysis of Iowa Urban Travel Demand Model Performance, 1997/1998. (One graduate student completed thesis on this topic, one paper published.)
- Investigations of Byproduct Radiations and Ultrasonic Measurements for Various Transportation Applications (with Walter Anderson), 1996-1997.
- Linking Travel Demand and Highway Capacity Models, 1993-1994. (One graduate student completed thesis on this topic.)
- Highway VMT Growth as a Self-Limiting Process: Implications for the Future of Congestion, 1989-1995. (One paper published, one graduate student also worked on this.)
- Technological Innovation and the Relations between Transportation and Production, 1989-1995. (Three papers published.)

4.7 Research-Related Service, including Leadership Positions

TRB:

- Secretary (1997-present), Committee A5015, Spatial Data and Information Sciences, member 1995-present.
- Committee on Intergovernmental Relations and Policy Processes, 1991-1998.

ASCE:

- Chair, Committee on Transportation Planning and Economics, Transportation and Development Institute, 2002-present.
- Committee on Transportation Security, Transportation and Development Institute, 2002-present.
- Chair (2000-2002), Committee on Transportation Planning, Urban Transportation Division (member 1990-2002, control group 1996-2002, and vice chair 1998-2000).
- Secretary (1995-2002), Urban Transport Division, Committee on Hazardous Materials Transportation (member 1990-2002, control group 1995-2002).

Other:

- Advisory Board, Midwest Transportation Consortium, 1999-present.
- Iowa Statewide Traffic Records Advisory Committee, 1995-present.
- Iowa Safety Management Systems, Emergency Response Information System Task Force, 1999-present.
- Board of Directors, Iowa Crash Outcomes Data Evaluation System, 1998-present.
- Conference Planning Committee, Iowa State Traffic Accident Records Symposium, Ames, IA, February 2001.
- Governors 0.08 Task Force (Blood Alcohol Legislation Review Panel), 2000.
- AASHTO/TRB/FHWA National Infrastructure Renewal Task Force (invited participant), Washington, DC, December 1999.
- ASCE Urban Planning and Development Division, Subcommittee on GIS Applications, 1993-present.
- Iowa Safety Management System Committee, 2001-present.
- Technical Program Chair, ASCE National Specialty Conference of Transportation Planning and Air Quality, Portland, OR, May, 1998.

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- Program Chair, Southwest Region Tranplan Model Users Group, Quarterly Meeting, April 1992.
- Organizing Committee, ITE District 6 Conference, 1992-1993.
- Technical Advisory Committee, Colorado River Regional Transportation Study, 1991-1992.
- Technical Advisory Committee, California-Nevada Super Speed Train Commission, 1990-1991.
- Conference Planning Committee, Third Annual Iowa Conference on Geographic Information Systems: "Making the Vision a Reality – GIS Applications in Iowa," Cedar Falls, IA, October 6-7, 1997.
- Conference Chair, Second Annual Iowa Conference on Geographic Information Systems: "Coordinated GIS - Enhancing the Vision," Ames, IA, October 7-8, 1996.
- Geographic Information Systems Workgroup, Iowa Intergovernmental Information Technology and Telecommunications Task Force, 1996.
- Co-organizer and Secretary, Iowa Geographic Information Council (IGIC).

5.0 Extension/Professional Activities

5.1 Workshops, Seminars, and Training Sessions

- Coordinator and Instructor, Workshop on TransCAD Travel Demand Modeling, Sponsored by Iowa DOT Office of Systems Planning, December 18, 2001.
- Coordinator and Instructor, Workshop on Travel Demand Modeling, Siouxland Metropolitan Planning Commission, February 17, 2000.
- Coordinator and Instructor, Workshop on Metropolitan Transportation Planning, Bi-State Regional Commission, January 21, 1999.
- Coordinator and Instructor, Workshop on Use of Highway Capacity Software for Planners, Midwest Transportation Model Users Group, March 30, 1998.
- Instructor, Workshop on use of Statistics and Visualization, Iowa Dept. of Management, June 1997.
- Coordinator and Instructor, MapInfo for Transportation GIS, Iowa DOT Maintenance Division, January 1997.
- Coordinator and Instructor, Workshop on Travel Modeling and GIS, Midwest Travel Model User's Group, August 1996.
- Coordinator and Instructor, Tranplan Workshops for Sioux City Metropolitan Planning Organization, 1996
- Coordinator and Instructor, one-day workshop on Tranplan for Beginners, January 1994.
- Coordinator and Instructor, two-day workshop on Tranplan for Analysts, August 1993.
- Coordinator and Instructor, two-day workshop on GIS for the Manager, August 1992.
- Coordinator and Instructor, two-day workshop on TRANPLAN for Managers and TRANPLAN for Analysts, July 1992.
- Coordinator and Instructor, one-day workshop on Use of Personal Computers for Engineering and Office Automation, March 1992.

5.2 Technology Transfer

- "GIS/GPS Implementation Issues: Part Two," *Technology News*, October 1995.
- "GIS/GPS Implementation Issues: Part One," *Technology News*, August 1995.
- "Now that I Have a GIS, Where's the Data?" *Coordinated GIS*, August 1995.
- "Issues in Implementing GIS and GPS," *Coordinated GIS*, May 1995.
- "Travel Demand Modeling in the Midwest," *Technology News*, October 1994.
- "GIS for Transportation in the Midwest," *Technology News*, November 1993 (with Peggi Knight).
- "Key Issues in the Use of TRANPLAN," *Nevada Milepost*, Vol. 2, No. 1, 1992.

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- “ARC/INFO GIS for Transportation Studies,” *SCENE*, National Supercomputing Center for Energy and the Environment, Vol. 1, No. 4, December 1991.
- “Geographic Information Systems,” *Nevada Milepost*, Vol. 1, No. 1, Fall 1991.

5.3 Consulting

- City of Maquoketa Travel Demand Model (for DMATS)
- HR Green Company, Travel Demand Modeling, January 2000-August 2002.
- City of Sac City Iowa, Bypass Analysis, April 1999-March 2000.
- WHKS Engineers, Traffic Impact Analysis, July 1999-February 2000.
- Mike Warden Architecture, Traffic Safety and Impact Analysis, July 1999.
- David Block Architect/Developer, Traffic Impact Analysis, July 1999.
- Dubuque Metropolitan Area Transportation Study; Travel Demand Modeling, June 1997-December 2000.
- City of Ames Schools, Bus Routing and Redistricting, June 1998-present.
- Jim Comes, landowner, Airport Planning and Expert Witness, April-June 1997.
- Story County Engineer’s Office, Travel Demand Modeling, August 1996.
- City of Ames Traffic Engineering, Travel Demand Modeling, June 1995-March 1996.
- Beak Consultants, Ltd, Canada, Transportation Routes Radiological Risk Assessment, January-March 1995.
- Louis Berger Inc., Geographic Information Systems for Public Involvement, February 1993.
- G.D. Gosling Aviation System Planning and Research, Airport Planning, February-June 1989.

5.4 Editorial Responsibilities

- Editorial Board, *Journal of Advanced Transportation*, 1996-present.
- Souleyrette, Reginald R., and Shashi K. Sathisan, Editors, *Journal of Advanced Transportation: Special Issue on Geographic Information Systems Applications in Transportation Engineering and Planning*, Vol. 29, No. 3, Fall 1995.
- Sathisan, Shashi K., and Reginald R. Souleyrette, Editors, *The Role of New Faculty in the 21st Century, Computers in Engineering Education: Proceedings of the 1990 Annual Meeting and Conference of the American Society for Engineering Education/Pacific Southwest Section*, October 17-20, 1990, 327 pages.

5.5 Referee Services

Journals:

- Pergamon Press, Handbook No. 5 on TRANSPORT GEOGRAPHY AND SPATIAL SYSTEMS, 2002
- *TRR, Journal of the Transportation Research Board*, 1995 (5), 1996 (4), 1997 (2), 1998 (1), 2000 (3), 2001 (2), 2002 (1), 2003 (1)
- *Environmental Modeling and Software*, 2002.
- *Photogrammetric Engineering and Remote Sensing*, 1999.
- *ASCE Journal of Transportation Engineering*, 1996(2), 1998 (2), 2002.
- *ASCE Journal of Urban Planning and Development*, 2000.
- *Transportation Research Journal, Part C*, 1999.
- *Journal of the Transportation Research Forum*, 1998.
- *Microcomputers in Civil Engineering*, 1993 (3).

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Promotion and Tenure Case Review:

- Anonymous, 2000.

Proposal Review:

- Hong Kong Research Grants Council, 2000, 2001 (3), 2003 (2)
- ISU Ames Lab (Department of Energy), 1998.
- Kansas State University, Special Group Incentive Research Awards Program, 1998.
- Oxford University Press (book proposal), 1997.
- ISU Agriculture Experiment Station, 1996.
- University of California, Berkeley, University Transportation Center, 1999.
- New Jersey Institute of Technology University Transportation Center, 1995 (4).

5.6 Extension-Related Service, including Leadership Positions

- See Section 4.7, Research-Related Service.

6.0 Institutional Service (not included above)

6.1 Departmental Committees and Leadership Positions

- Director of Graduate Education, CCEE, 2003-present
- Division Leader, Transportation, and CCEE Administrative Council, 2002-present.
- Chair, Transportation Faculty Search Committee, 2001/2002.
- Curriculum Committee, 2001-2003, Chair 2003-2004
- Chair, Advising and Student Concerns Committee, 2000-2001.
- Chair, Task force on Faculty Workloads and Resource Allocation, 2000-2001.
- Faculty Council, 2000-2002.
- Faculty Advisor, Transportation Students Association, 1996-present.
- Faculty search committee, Structures Division, summer/fall 1998.
- Chair, CTRE Computer Committee, 1999-present.
- Learning-based Curriculum Task Force, 1997-2001.
- CCEE Computer Committee, 1994-1998.
- Moderator/host, Chi Epsilon Civil Engineering Honor Society, Mini-Conclave, March 1, 1997.
- Special Events Committee, 1993-97. (Chair, 1996/1997)
- TQM Strategic Planning Focus Group: Rewards and Recognition, 1995-1997.
- Engineering Week Lab Instructor, September 1995, September 1997.
- TQM Team, Scheduling and Access to Faculty, 1995.
- Planning Committee (ex-officio), 1995.
- Promotion and Tenure Review Committee, 1991-1993.
- Department Incoming Student Orientation, 1991, 1992.
- Student Award Selection Committee, 1992.
- Entry Level Courses Review Committee, 1991.

6.2 College Committees and Leadership Positions

- ISU Engineering Computing Fee Task Force (Chair of Extended Access Subcommittee), 1997-2000.
- UNLV College of Engineering Merit, Tenure, and Promotion Evaluation Committee, 1991-1993.
- UNLV College of Engineering, Tau Beta Pi Student Chapter Advisor, 1991-1993.

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- Faculty Search Committee for the Chair of the UNLV Computer Science Department, 1991-1993.
- UNLV College of Engineering Computing Network Committee, 1992-1993.
- UNLV College of Engineering, Engineering Week Lab Instructor, February 21, 1992.
- UNLV College of Engineering Representative, College Fair, 1991, 1992.
- UNLV College of Engineering Science and Technology Day Lab Instructor, 1990, 1991.
- Faculty Search Committee for the Director of the UNLV Transportation Research Center, 1990.

6.3 University Committees and Leadership Positions

- Associate Director, CTRE, 1993-present.
- Director of Graduate Education and Chair, Transportation Interdisciplinary M.S. Program, 1999-present.
- Search Committee, CTRE Associate Director for Materials Research, 2002.
- ISU/Brazil Development Team, 2001-2002.
- Review of tenure application, fall 2000.
- Search Committee, CTRE Director, 1999.
- Proposal Reviewer, Ames Lab, fall, 1999.
- Faculty Search Committee, Department of Community and Regional Planning, 1997-1998.
- University GIS Steering Committee, 1994-present.
- Mentor, Freshman Honors Program, 1994-1998.
- Proposal Reviewer, Iowa Agriculture and Home Economics Experiment Station, 1996.
- Search Committee for ISU GIS Facility Manager, 1996.
- Transportation Engineering Curriculum Planning Committee, National Technological University, 1995.

7.0 Professional Development Activities

- ArcGIS Workshop, Ames, January, 2004
- TRB Workshop on Unmanned Aerial Vehicles (UAVs), Washington, D.C., January 12, 2003.
- TransCAD Travel Demand Software Training, Ames, IA, May 7-10, 2002.
- National Highway Traffic Safety Administration, Workshop on Crash Records Design, Ames, IA, January 2000.
- ABET Evaluator Training, Charlotte, VA, October 1999.
- ASCE Exceed Teaching Workshop, Charlotte, VA, October 1999.
- Remote Sensing Workshop, Ohio State University, August 1999.
- National Transit Institute, Introduction to Metropolitan Trans. Planning, Des Moines, IA, March 3-5, 1998.
- Navtech Seminars, Fundamentals of GPS I and II and Differential GPS I and II, Salt Lake City, UT, September 1994.
- Integrated Transportation Information Systems: A Strategic View, Norfolk, April 1994.
- Intergraph MGE Foundations GIS Workshop, Chicago, October 10-15, 1993.
- Building the GIS-T Database: An Introduction, Albuquerque, NM, March 28, 1993.
- An Introduction to GIS for Transportation, Washington, DC, January 13, 1991.
- Quick Response System (QRS II), Las Vegas, Nevada, December 10-12, 1990.
- CEDRA Workshop (Civil Engineering Design Software), San Francisco, CA, September 28-30, 1990.
- RADTRAN 4 Workshop (Nuclear Materials Transportation Impact Analysis Software), Sandia Labs, October 1989.