

**SHASHI SATHISAN NAMBISAN, Ph.D., P.E.**

Professor, Department of Civil and Environmental Engineering  
(July 2014)

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**EDUCATION**

Ph.D. Civil Engineering (*Transportation*), University of California, Berkeley, CA. December 1989.  
M.S. Civil Engineering (*Transportation*), Virginia Tech, Blacksburg, VA. December 1985.  
B.Tech. Civil Engineering, Indian Institute of Technology, Madras, July 1984.

**PROFESSIONAL REGISTRATION**

Licensed Professional Civil Engineer, State of Nevada (License Number 13965; EIT: #OT3573).

**WORK EXPERIENCE**

**University of Tennessee, Knoxville.** Professor, Dept of Civil and Environmental Engr. Jan 2014 to date.  
Education Director, Southeastern Transportation Center, May 2014 to date.

**Iowa State University, Ames, Iowa.** Professor, Dept of Civil, Construction, and Environmental Engineering. Feb 2007 to Dec 2013; Director, Institute for Transportation, Feb 2007 to Aug 2012.

**University of Nevada, Las Vegas, Dept. of Civil & Environmental Engineering / Transportation Research Center (TRC).** **Professor** (July 1999 to Jan 2007); Associate Professor (July 1994 - June 1999); Assistant Professor (August 1989 to June 1994); **Director**, TRC, (August 1998 to Jan 2007), Asst. Director, TRC, (July 1993 to July 1998).

**Administration:** Leadership of an organization at ISU with 8 Centers & 4 programs and annual expenditures of over \$14 Million; Policy development; strategic planning; supervise and mentor professional & support staff; public relations, extension & outreach efforts.

- Responsible for all aspects of the organization with efforts spanning research, education, outreach and technology transfer activities; Annual expenditures grew from ~ \$10 M in 2007 to ~\$14.2 M in 2012.
- Lead administrative, operational, and personnel aspects including hiring, mentoring, evaluation, salary, promotion, termination, and conflict resolution. Total staffing level varies between 170 and 200.
  - 5 Academic Colleges
  - ~35 faculty members
  - ~25 technical, professional & scientific staff
  - 5 Post-Doctoral researchers
  - 6 administrative and financial support staff
  - 5 Publications and Communications staff
  - 5 Secretaries and technicians (unionized)
  - 90 to 125 students from across the University
- Instructional, advising, mentoring and professional service contributions to the CCEE Department.

**Research:** Transportation Systems Safety and Risk Analysis; Planning & Policy; Management; Air Transportation; Education & Outreach; Program Development & Management.

**Teaching:** Undergraduate and graduate courses in Transportation Engineering, Traffic Operations & Safety, Transportation Planning, Air Transportation. Senior Design.

**Professional Service:** Leadership and other contributions to several professional organizations: civil engineering, education, and transportation (e.g., ASCE, ASEE, ITE, TRB, Universities).

**Research Experience Summary:**

Principal Investigator (PI) or Co-PI for more than 155 sponsored projects since 1989. The projects have addressed and responded to local, statewide, regional, and national issues in transportation and information systems management (safety, management, policy analysis, planning, infrastructure development, air quality, and operations). The efforts have primarily related to the development and deployment of technology based decision support tools. Project sponsors include:

- California State Automobile Association
- City of Las Vegas
- Clark County Dept of Comprehensive Planning
- Clark County Department of Public Works
- Regional Transp. Commission of So. Nevada
- Esmeralda County, NV
- Lincoln County, NV
- White Pine County, NV

- Nevada Nuclear Waste Projects Office
- Nevada Legislative Counsel Bureau
- Nevada Department of Transportation
- Nevada Office of Traffic Safety
- Iowa Department of Transportation
- University of Nevada, Las Vegas
- U.S. National Park Service
- U.S. DOT F.A.A./Sandia National Labs
- U.S. DOT Federal Highway Administration
- U.S. Department of Energy
- Barbary Coast
- Intertech Consulting Services, NV
- ITX Stanley, Inc. Phoenix, AZ
- Kimley-Horn & Associates, Inc.
- Orth-Rodgers & Associates, Inc.
- TRW Environmental Safety Systems

### SELECTED AWARDS & HONORS

Elected President, Council of University Transportation Centers, June 2014.

Proclamation by Governor Jim Gibbons declaring January 31, 2007 to be the ***Professor Shashi Nambisan Day*** in the state of Nevada.

Quest Scholar of the Week - July 28, 2014, University of Tennessee. [http://quest.utk.edu/2014/shashi-nambisan/?&utm\\_source=tntoday&utm\\_medium=email&utm\\_campaign=2014-07-29](http://quest.utk.edu/2014/shashi-nambisan/?&utm_source=tntoday&utm_medium=email&utm_campaign=2014-07-29)

Member, AASHTO- Transportation Research Board Delegation on Scan / Tour of India to promote bilateral collaboration and cooperation in transportation (11 person team led by John Horsley, Executive Director, AASHTO), Nov 8-15, 2009.

Co-author of the Paper selected for the Best Paper award by ITE District 6 for papers published in the ITE Journal in 2007. Nambisan, Shashi S. and Venu Parimi, *A Comparative Evaluation of the Safety Performance of Roundabouts and Traditional Intersection Controls*. ITE Journal, Institute of Transportation Engineers, Washington, D.C. March 2007. Volume 77(3). pp 18-25.

*"Leadership in Community Involvement"* Award from the Southern Nevada Branch of the Nevada Section of the American Society of Civil Engineers (ASCE), Engineers Week, Las Vegas, NV. Feb. 2007.

*"Engineer of the Year"* Award from the Nevada Chapter of the Institute of Transportation Engineers (ITE), Engineers Week Banquet, Las Vegas, NV. February 24, 2007.

*Harry Reid Silver State Research Award (Highest Recognition at UNLV for Research and Scholarship)*, University of Nevada, Las Vegas & UNLV Foundation, April 2005.

*Professor of the Year (Department of Civil & Environmental Engineering)* – 2005, Tau Beta Pi Engineering Honor Society - UNLV Chapter, April 2005.

*Nevada Regents Graduate Academic Advisor Award*. Board of Regents, University and Community College System of Nevada, Las Vegas, NV. April 21 2004.

*2003 Outstanding Educator Award*, Institute of Transportation Engineers District 6 (comprising the 13 Western most states in the US), Seattle, WA. August 2003.

*Outstanding Teacher of the Year 2001-2002*, Department of Civil & Environmental Engineering, UNLV.

*Distinguished Researcher Award*, Howard R. Hughes College of Engineering, UNLV. 1999 and 2002.

*Recognition for Research Contributions at UNLV* - One of two UNLV faculty members recognized by President Harter at a meeting of the University System's Board of Regents. November 2000.

*UNLV Outstanding Faculty Member* - 1999-2000, Univ. of Nevada System Board of Regents. Feb 2000.

*Student Focused Faculty Award - Recognition of Academic Achievement and Commitment to Student Learning and Development*. UNLV Alumni Association. November 1999.

*Correspondent Worthy of Special Commendation* award for exemplary service in pursuit of news of the American Society of Civil Engineer's Urban Transportation Division. August 1998.

*Honorable Mention Award*, Public Technology Inc, Washington DC for the *Safe Route to School Project* - sponsored by the Clark Co. Dept. of Public Works Oct.1995. Also won the *1995 Achievement Award* from the National Association of Counties.

*Dow Outstanding Young Faculty Award*, American Society for Engineering Education (Pacific Southwest Section), Centennial Conference, Urbana-Champaign, IL. June 1993.

### PUBLICATIONS, EDITORSHIPS, AND PRESENTATIONS

- 39 Peer Reviewed + 1 Special Publications
- Editor of 10 Publications
- 89 Peer Reviewed Conference Publications
- 142 International/National Conf. Presentations
- 69 Presentations at Regional/State and Local Conferences and Meetings
- 27 Invited Presentations at Universities

## PUBLICATIONS

### Peer Reviewed Publications

#### *Published Manuscripts (Entire Manuscript Peer Reviewed)*

1. Fitzsimmons, E.F., R. Souleyrette, and S. Nambisan. *Measuring Horizontal Curve Vehicle Trajectories and Speed Profiles: Pneumatic Road Tube and Video Methods*, ASCE Journal of Transportation Engineering, Vol. 139, No. 3, March 2013. pp. 255-265.
2. Eric J. Fitzsimmons , Vanessa Kvam , Reginald R. Souleyrette , Shashi S. Nambisan & Douglas G. Bonett. *Determining Vehicle Operating Speed and Lateral Position Along Horizontal Curves Using Linear Mixed-Effects Models*, Traffic Injury Prevention, 14:3, 309-321(2013). <http://dx.doi.org/10.1080/15389588.2012.701356>
3. V. Vasudevan and S. Nambisan, *A Model to Estimate Passenger Vehicle Fleet Composition, Vehicle Miles Traveled, and Fuel Consumption*, Public Works Management & Policy Journal. Volume 18 January 2013 pp. 54 - 77. online before print May 14, 2012. [doi: 10.1177/1087724X12438408](https://doi.org/10.1177/1087724X12438408).
4. Fitzsimmons, E.F., R. Souleyrette, and S. Nambisan. *Analyses of Vehicle Trajectories and Speed Profiles along Horizontal Curves*. Journal of Transportation Safety & Security ([DOI:10.1080/19439962.2012.680573](https://doi.org/10.1080/19439962.2012.680573)). posted online: 05 Apr 2012;.
5. Zhang, W., K. Gkritza, N. Keren, S. Nambisan. "Age and Gender Differences in Conviction and Crash Occurrence subsequent to being directed to Iowa's Driver Improvement Program," Journal of Safety Research, Volume 42, Issue 5, pp. 359-365, 2011.
6. Boeckenstedt, R., K. Gkritza, R. Souleyrette, and S. Nambisan, *Implications of Bioeconomy-Based Fuel Production to the Transportation Infrastructure in Iowa*, Transportation Research Record # 2191, JI of the Transportation Research Board, National Academy of Sciences, pp 84-89, 2010.
7. G. Karkee, S. Nambisan, and S. Pulugurtha, *Motorist Actions at a Crosswalk with an In-Pavement Flashing Light System*, Traffic Injury Prevention Journal. Vol. 11, No. 6, pp 642-9, 2010.
8. Nambisan, S. S. and G. J. Karkee, *Do Pedestrian Countdown Signals Influence Vehicle Speeds?* Transportation Research Record #2149, Journal of the Transportation Research Board, National Academy of Sciences, pp 70-76, 2010.
9. Vasudevan, Vinod, Shashi S. Nambisan, Ashok K. Singh, and Traci Pearl, *Effectiveness of Media and Enforcement Campaigns in Increasing Seat Belt Usage Rates in a State with a Secondary Seat Belt Law*, Traffic Injury Prevention Journal, 10:1-10, 2009.
10. Nambisan, Shashi S., Srinivas Pulugurtha, Vinod Vasudevan, Mukund Dangeti, and Vinay Virupaksha (2009), *Effectiveness of Automatic Pedestrian Detection Device and Smart Lighting on Pedestrian Safety*, Transportation Research Record #2140, Journal of the Transportation Research Board, National Academy of Sciences. Washington, D.C., pp 27-34, 2009.
11. Nambisan, Shashi S. and Vinod Vasudevan, *Is Seat Belt Usage By Front Seat Passengers Related To Seat Belt Usage By Their Drivers?* Journal of Safety Research, 38, pp 545-555. 2007.
12. Vasudevan, Vinod, Srinivas S. Pulugurtha, and Shashi S. Nambisan, *Methods to Prioritize Pedestrian High Crash Locations and a Statistical Analysis of Relationships Between Them*. Transportation Research Record #2002, Journal of the Transportation Research Board, National Academy of Sciences. Washington, D.C., pp 39-54., 2007.
13. Pulugurtha, Srinivas S., V. K. Krishnakumar, and S. S. Nambisan. *New Methods to Identify and Rank High Pedestrian Crash Zones: An Illustration*. Accident Analysis and Prevention Journal. 39 (4), p.800-811, 2007.
14. Nambisan, Shashi S. and Venu Parimi, *A Comparative Evaluation of the Safety Performance of Roundabouts and Traditional Intersection Controls*. ITE Journal, Institute of Transportation Engineers, Washington, D.C. March 2007. Volume 77(3). pp 18-25. \*Winner of the Best Paper award by ITE District 6 for papers published in the ITE Journal in 2007.

15. Cui, Zhenzhong and Shashi S. Nambisan. *Methodology for Evaluating the Safety of Mid-block Pedestrian Crossings*. In Transportation Research Record # 1828, Journal of the Transportation Research Board, National Academy of Sciences. Washington, D.C. pp. 75-82. 2003.
16. Pulugurtha, Srinivas S. and Shashi S. Nambisan. *A Decision Support Tool for Airline Yield Management Using Genetic Algorithms*. Special Issue on Computing and Information Technologies in Transportation Engineering, Journal of Computer-Aided Civil & Infrastructure Engineering. Vol. 18, pp 215-224. Blackwell Publishing, Malden, MA and Oxford, UK. 2003.
17. Nambisan, Shashi S. and Srinivas S. Pulugurtha, *Estimating Time Dependent O-D Trip Tables With Trips Originating in Multiple Time Slices*. In Transportation Research Record # 1752, Journal of the Transportation Research Board, National Academy of Sciences. Washington, D.C. pp.133-139. 2001.
18. Pulugurtha, Srinivas S. and Shashi S. Nambisan, *Using Genetic Algorithms to Evaluate Aircraft Ground Holding Policy Under Static Conditions*, ASCE Journal of Transportation Engineering. Vol. 127, No. 5. pp. 433-441. 2001.
19. Pulugurtha, Srinivas S. and Shashi S. Nambisan, *Using Genetic Algorithms to Evaluate Aircraft Ground Holding Policy in Real Time*, ASCE Journal of Transportation Engineering. Vol. 127, No. 5. pp. 442-449. 2001.
20. Pulugurtha, Srinivas S. and Shashi S. Nambisan, *Estimating Time-dependent Trip Tables During Peak Periods* JI of Advanced Transportation, Volume 34, Number 3. pp. 369-389. December 2000.
21. Parentela, Emily P. and Shashi S. Nambisan, *Emergency Response and Disaster Management Using GIS in Urban Planning and Development Applications of GIS*, American Society of Civil Engineers Monograph, Said Easa and Yupo Chan, Editors. Chapter 11. pp. 181-196. 2000.
22. Pulugurtha, Srinivas S., Shashi S. Nambisan, and Srinivasan, Nanda, *Evaluating Transit Market Potential and Selecting Locations of Transit Service Facilities Using GIS*. Journal of Public Transportation. Volume 2, Number 4. pp 75-94. 1999.
23. Nambisan, Shashi S., Srinivas S. Pulugurtha, Jeffery J. Jensen, Robert Puterski, Tom Miller and Chang Hwan Park, *Prototype Internet Applications for Transportation System Management*. Transportation Research Record # 1660, Journal of the Transportation Research Board, National Academy of Sciences. Washington, D.C. pp 122-131. 1999.
24. Pulugurtha, Srinivas S. and Shashi S. Nambisan, *A Methodology to Estimate Time Dependent Origin-Destination Trip Tables*. Proceedings of the 1998 International Computing Congress, American Society of Civil Engineers, Boston, MA.. pp. 801-810. October 1998
25. Nambisan, Shashi S. and Nanda Srinivasan. *Evaluation of Accessibility of Urban Transportation Networks*. Transportation Research Record # 1617, Transportation Research Board, National Academy of Sciences. Washington, D.C. pp. 78-83. 1998.
26. Romer, Richard T. and Shashi S. Nambisan. *An Integrated Systems Methodology for Pedestrian Traffic Flow Analysis*. Transportation Research Record #1578. Transportation Research Board, National Academy of Sciences, National Academy Press. Washington, D.C. pp. 30-37. 1997.
27. Nambisan, Shashi S. and K. Madhavapeddi. *On Significance of Route Specific Data for Transportation Risk Analysis*. Proceedings of the Sixth International High Level Radioactive Waste Management Conference, Sponsored by ASCE and ANS. Las Vegas, NV. pp. 481-483. May, 1995.
28. Parentela, Emily M. and Shashi S. Nambisan. *Design of a Transportation Impact Analysis System*. Proceedings of the Sixth International High Level Radioactive Waste Management Conference, Sponsored by ASCE and ANS. Las Vegas, NV. pp. 484-486. May, 1995.
29. Souleyrette, Reg and Shashi S. Nambisan. *GIS for Radioactive Materials Transportation*. Special Issue of Microcomputers in Civil Engineering Journal. Vol. 9, pp. 295-303. 1994.
30. Nambisan, Shashi S., E.M. Parentela and M. Lee. *Analysis of Potential Highway Routes to Yucca Mountain*. Proceedings of the Fifth International High Level Radioactive Waste Management Conference, Sponsored by ASCE & ANS. Las Vegas, NV. pp. 1278-1285. May, 1994.
31. Nambisan, Shashi S. and E.M. Parentela. *An Evaluation of Rail Access Routes to Yucca Mountain*. Proceedings of the Fifth International High Level Radioactive Waste Management Conference, Sponsored by ASCE and ANS. Las Vegas, NV. pp. 1270-1277. May, 1994.

32. Parentela, Emily, Sandeep. Burli, Shashi S. Nambisan and Walter Vodrazka. *Emergency Response Preparedness Analysis for Radioactive Materials Transportation*. Proceedings of the Fifth International High Level Radioactive Waste Management Conference, Sponsored by ASCE & ANS. Las Vegas, NV. pp. 1249-1254. May, 1994.
33. Nambisan, Shashi S. and A. Chagari. *Population Estimation Techniques for Routing Analysis*. Proceedings of the Fifth International High Level Radioactive Waste Management Conference, Sponsored by ASCE and ANS. Las Vegas, NV. pp. 658-665. May, 1994.
34. Nambisan, Shashi S. and Walter C. Vodrazka. *Applying GIS to Railway Geometric Design in Transportation Facilities Through Difficult Terrain*, Wu and Barrett, Eds. A.A. Balkema, Rotterdam. pp. 211-219. August 1993.
35. Kanafani, Adib, Theodore Keeler and Shashi Nambisan. *Airline Safety Posture: Evidence from Service Difficulty Reports*. ASCE Journal of Transportation Engineering, Vol. 119, No. 4, pp. 655-664. July/August 1993.
36. R. R. Souleyrette, Shashi S. Nambisan, Soon-tin Lim and D. E. James. *GIS for Transportation and Air Quality Analysis*. In *Transportation Planning and Air Quality*, American Society of Civil Engineers. New York, NY. pp. 182-194. July 1991.
37. J. A. Cardle, P. Regeski, F. Ostler, and Shashi S. Nambisan. *Optimal Route Selection for High Level Nuclear Waste Transport Based Upon Radiological Risk*. Proceedings, First Annual International High-Level Radioactive Waste Management Conference, sponsored by the American Society of Civil Engineers and American Nuclear Society, Las Vegas, NV. Volume 1, pp. 312-316. April 1990.
38. A. Kanafani, T. E. Keeler, Shashi S. Nambisan, *Analysis of Airline and Aircraft Safety Posture Using Service Difficulty Reports*. *Transportation Research Record* 1214. Transportation Research Board. National Academy of Sciences, Washington, D.C. pp. 43-51. 1989.

### **Other Special Publications**

39. Shashi Nambisan (host), *Literacy in Action*, a 2 volume DVD production that is a compilation of 19 chapters related to various careers. The DVDs are aimed at 3<sup>rd</sup> and 4<sup>th</sup> grade students. Developed in partnership with Professor Barbara Cloud (Communications) and Professor Martha Young (Education) at UNLV in partnership with the Clark County School District, Nevada. Produced by Martha Young, Barbara Cloud, Shashi Nambisan, and Mark Williams & Vegas PBS TV station, Las Vegas, NV, 2007. (NOTE: this is not a traditional “journal” publication)

### **Editorships**

1. S. Nambisan. Fall Newsletter of the Civil Engineering Division, American Society for Engineering Education, Washington, D.C. September 2006. 12 pages.
2. S. Nambisan. Spring Newsletter of the Civil Engineering Division, American Society for Engineering Education, Washington, D.C. May 2006. 12 pages.
3. S. Nambisan. Fall Newsletter of the Civil Engineering Division, American Society for Engineering Education, Washington, D.C. September 2005. 8 pages.
4. S. Nambisan. Spring Newsletter of the Civil Engineering Division, American Society for Engineering Education, Washington, D.C. May 2005. 8 pages.
5. S. Nambisan. Fall Newsletter of the Civil Engineering Division, American Society for Engineering Education, Washington, D.C. September 2004. 16 pages.
6. K. Wang, S. Madanat, S. Nambisan and G. Spring. Co-Editors. Proceedings, the Seventh International Conference on the Applications of Advanced Technologies in Transportation, American Society of Civil Engineers. Boston, MA. August 5-7, 2002. 984 pp.
7. Nambisan, Shashi S. Editor. *The 2020 Vision of Air Transportation: Emerging Issues and Innovative Solutions*. Proceedings of the 26<sup>th</sup> International Air Transportation Conference, American Society of Civil Engineers. San Francisco, CA. June 2000. 366 pp.
8. Nambisan, Shashi S. and R.R. Souleyrette. Editors. *Journal of Advanced Transportation - Special Issue on Geographic Information Systems Applications in Transportation Engineering and Planning*. Volume 29, Number 3, Duke University, Durham NC. 1995.

9. Nambisan, Shashi S. Editor. Transportation Risks and Rewards. Compendium of Technical Papers, 46th Annual Meeting, Inst. of Transportation Engineers Dist. 6, Las Vegas, NV. July 1993. 412 pp.
10. Nambisan, Shashi S. and R.R. Souleyrette. Editors. The Role of New Faculty in the 21st Century and Computers in Engineering Education. *Proceedings*, Annual Meeting & Conference, American Society for Engineering Education/Pacific Southwest Section, Las Vegas, Oct. 1990. 339 pp.

### ***Personal Dissertation and Thesis***

- Sathisan, Shashi K. *Airline Safety Posture: A Study of Aircraft Maintenance Related Indicators*. Doctoral Dissertation. Committee: Professor A. Kanafani, Chair; Professors W.L. Garrison, T. E. Keeler. Department of Civil Engineering, University of California, Berkeley, July 1989. Institute of Transportation Studies, University of California at Berkeley Dissertation Series, UCB-ITS-DS-89-5, 136 pp. July 1989.
- Sathisan, Shashi K. *Encapsulation of Large Scale Policy Assisting Computer Models*. M. S. Thesis. Chairman: Professor D. R. Drew. Department of Civil Engineering, Virginia Polytechnic Institute and State University, Blacksburg, September 1985.

### **Conference / Technical Publications (based on peer reviewed manuscripts, extended abstracts, or abstracts)**

1. Nambisan, Shashi, James Alleman, Sandra Larson, and Max Grogg. *A Pilot Initiative in Iowa for an Intern Development and Management Program*, Paper Number 13-0109, accepted for publication in the Proceedings of the 93<sup>rd</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C., January 12-16, 2014. (Full Paper Refereed).
2. Nambisan, Shashi, Murat Ozen, Mack Shelley, and Nadia Gkritza. *An Exploratory Examination of the Impacts of a Revised Truck Definition on Truck Safety Indicators in the US*, Paper Number 13-0110, Submitted for publication in the Proceedings of the 93<sup>rd</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C., January 12-16, 2014. (Full Paper Refereed).
3. Nambisan, Shashi, and Murat Ozen. *Deducing Local Level Safety Data from Spatially Aggregated Data: Illustration of a Methodology to Support Truck Safety Analyses*. Road Safety and Simulation International Conference RSS2013, Rome, Italy. October 22-25, 2013.
4. Ozen, Murat and Shashi Nambisan. *Exploratory Analysis of Large Truck Safety: A Comparative Study of Crash Data from the USA*. Road Safety and Simulation International Conference RSS2013, Rome, Italy. October 22-25, 2013.
5. Nilakanta, Rema, Giada Biasetti, and Shashi Nambisan. *An Unusual Partnership: Transportation Engineering Outreach and Spanish Translation Program*, Proceedings of the Annual Conference of the American Society for Engineering Education, San Antonio, TX. June 11-14, 2012. (Full Paper Refereed).
6. Rhonda Young, Kristen Sanford-Bernhardt, Shashi Nambisan, *Core Concepts and Learning Outcomes in an Introductory Transportation Engineering Course: An Evaluation of Pilot Implementations*, Proceedings of the Annual Conference of the American Society for Engineering Education, San Antonio, TX. June 11-4, 2012. (Full Paper Refereed).
7. Timothy Becker, Joel Sikkema, Nicole Oneyear, Shashi Nambisan. *Catalyzing Graduate Student Research Dissemination: Case Study of a Technical Poster Competition*, Reference number AC 2012-4133. Proceedings of the Annual Conference of the American Society for Engineering Education, San Antonio, TX. June 11-4, 2012. (Full Paper Refereed).
8. Nilakanta, Rema, Giada Biasetti, and Shashi Nambisan. *An Enterprising Partnership For ¡Vamos!, A Spanish Language Forum For Transportation Workforce Development*, Paper Number 12-0502, CD-ROM Preprints of the 91<sup>st</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Session 697. Washington, D.C., January 22-26, 2012. (Full Paper Refereed).

9. Pulugurtha, Srinivas, Vinod Vasudevan, Shashi Nambisan, and Mukund Dangeti, *Evaluating the Effectiveness of Infrastructure Based Countermeasures on Pedestrian Safety*, 91st Annual Meeting of the Transportation Research Board, National Academy of Sciences. Session 260. Washington, D.C., January 22-26, 2012. (Full Paper Refereed).
10. Pulugurtha, Srinivas, Vinod Vasudevan, Shashi Nambisan, and Mukund Dangeti, *Enhancing Pedestrian Safety Using Traffic Signs*, Paper ID: 417; Conference of Transportation Research Group of India / Indian Institute of Science, Bangalore, India. December 7-10, 2011.
11. Nambisan, Shashi, Rema Nilakanta, and Shauna Hallmark, *Benefits and Challenges of Go!: An Innovative Online Publication to Attract Teens to Transportation*, Proceedings of the Annual Conference of the American Society for Engineering Education, Vancouver, BC, Canada. Reference number AC 2011-1849. June 26-29, 2011. (Full Paper Refereed).
12. Sanford-Bernhardt, Kristen, Rhonda Young, Andrea Bill, Steven Beyerlein, Michael Kyte, Kevin Heaslip, David Hurwitz, and Shashi Nambisan. *A Nationwide Effort to Improve Transportation Engineering Education*, Proceedings of the Annual Conference of the American Society for Engineering Education, Vancouver, BC, Canada. Reference number AC 2011-1528. June 26-29, 2011. (Full Paper Refereed).
13. V. Vasudevan and S. Nambisan, *Analysis of Effects of Cafe Standards, Hybrid and Alternative Fuel Vehicles on Fuel Tax Revenues*, Paper Number 11-2381, CD-ROM Preprints of the 90<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C., January 23-27, 2011. (Full Paper Refereed).
14. V. Vasudevan, S. Pulugurtha, S. Nambisan, and M. Dangeti. *Evaluating the Effectiveness of Signal-based Countermeasures on Pedestrian Safety*, Paper Number 11-1511, CD-ROM Preprints of the 90<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C., January 23-27, 2011. (Full Paper Refereed).
15. Wei Zhang, Konstantina Gkritza, Nir Keren, Shashi Nambisan. *Evaluation of Iowa's Driver Improvement Program*, Paper Number 11-0663, CD-ROM Preprints of the 90<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C., January 23-27, 2011. (Full Paper Refereed).
16. Vasudevan, V., S. Nambisan, and P. Kachroo. *Tiered System Based on Vehicle Miles Traveled for Highway Financing* (Paper Number 10-0736, CD-ROM Preprints of the 89<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. January 10-14, 2010. (Full Paper Refereed).
17. Boeckenstedt, R., K. Gkritza, R. Souleyrette, and S. Nambisan, *Implications of Bioeconomy-Based Fuel Production to the Transportation Infrastructure in Iowa*, Paper Number 10-1190, CD-ROM Preprints of the 89<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. January 10-14, 2010. (Full Paper Refereed).
18. Nambisan, S. S. and G. J. Karkee, *Do Pedestrian Countdown Signals Influence Vehicle Speeds?* Paper Number 10-3472, CD-ROM Preprints of the 89<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. January 10-14, 2010. (Full Paper Refereed).
19. Beyerlein, S., Bill, A. R., Van Schalkwyk, I., Sanford-Bernhardt, K. L., Young, R. K., Nambisan, S. S., and Turochy, R. E., *Need to Develop Core Concepts and Learning Outcomes for Introductory Transportation Engineering Course*, Paper Number 10-3946, CD-ROM Preprints of the 89<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. January 10-14, 2010. (Full Paper Refereed).
20. Pulugurtha, S.S., S. S. Nambisan, Dangeti, M. R., and V. Vasudevan. *Evaluation of the Effectiveness of Traffic Signs to Enhance Pedestrian Safety*, Paper Number 10-1016, CD-ROM Preprints of the 89<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. January 10-14, 2010. (Full Paper Refereed).
21. Kumaresan, V., V. Vasudevan, and S. Nambisan, *Development of a GIS-based Safety Analysis System*, ESRI User conference, San Diego, July 2009.



22. Karkee, G.J. ,S.S. Pulugurtha, S. S. Nambisan, *Statistical Analysis of Pedestrian Crossing Behavior on Streets*, Paper Number 09-3153, CD-ROM Preprints of the 88<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. January 11-15, 2009. (Full Paper Refereed).
23. Nambisan, S., S. Pulugurtha, V. Vasudevan, M. Dangeti, and V. Virupaksha. *Effectiveness of Automatic Pedestrian Detection Device and Smart Lighting on Pedestrian Safety*, Paper Number 09-3171, CD-ROM Preprints of the 88<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. January 11-15, 2009. (Full Paper Refereed).
24. Dangeti, M. R., S. S. Nambisan, V. Vasudevan, and S. Pulugurtha. *Do Portable Speed Trailers Work to Enhance Pedestrian Safety? Case Study: Las Vegas Metropolitan Area*, Paper Number 751, 10<sup>th</sup> International Conference on Applications of Advanced Technologies in Transportation, National Technical University of Athens, Greece. May 27-31, 2008. (Full Paper Refereed).
25. Vasudevan, V. and S. S. Nambisan, *Developing Risk Indices To Estimate Risk Associated With Hazmat Shipments*, Paper Number 758, 10<sup>th</sup> International Conference on Applications of Advanced Technologies in Transportation, National Technical University of Athens, Greece. May 27-31, 2008. (Full Paper Refereed).
26. Pulugurtha, S. S., S. S. Nambisan, and M. R. Dangeti. *A Decision Support Tool for Transportation Infrastructure Data Collection and Management*, Paper Number 782, 10<sup>th</sup> International Conference on Applications of Advanced Technologies in Transportation, National Technical University of Athens, Greece. May 27-31, 2008. (Full Paper Refereed).
27. Nambisan, S. S., V. Vasudevan, M. R. Dangeti, V. Virupaksha, and S. Pulugurtha. *Evaluating the Effectiveness of Pedestrian Safety Improvement Countermeasures*, Paper Number 784, 10<sup>th</sup> International Conference on Applications of Advanced Technologies in Transportation, National Technical University of Athens, Greece. May 27-31, 2008. (Full Paper Refereed).
28. Nambisan, S. S., V. Vasudevan, M. R. Dangeti, and V. Virupaksha *Advanced Yield Markings and Pedestrians Safety: Analyses of use with Danish Offsets and Median Refuge Islands*, Paper Number 08-2994. Session 246. CD-ROM Preprints of the 2008 Annual Meeting, Transportation Research Board, Washington, D.C. Jan 13-17, 2008. (Full Paper Refereed).
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30. Vasudevan, V. and S.S. Nambisan, *An Evaluation of Relationship between the Seat Belt Usage Rates of Front Seat Occupants and Their Drivers*, Proceedings of the 2007 Mid-Continent Transportation Research Symposium, Center for Transportation Research and Education, Iowa State University Ames, Iowa, August 2007.
31. Nambisan, Shashi S., *Enhancing the Capstone Design Experience*. Annual Conference of the American Society for Engineering Education, Honolulu, Hawaii. Reference number AC 2007-1513. (Full Paper Refereed). June 2007.
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33. Pulugurtha, S. S., S. S. Nambisan, and P. Maheshwari. "Estimating Pedestrian Trips in Urban Areas for Transportation Planning and Safety Analyses." Proceedings of the Applications of Advanced Technologies in Transportation International Conference, Sponsored by the American Society of Civil Engineers, Chicago, IL, August 13-16, 2006, Paper Number 13943. (Full Paper Refereed).
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  50. Pulugurtha, S. S. and S. S. Nambisan. *Effectiveness of Pedestrian Countdown Timers To Enhance Safety In Las Vegas*, Proceedings of the Institute of Transportation Engineers District 6 Annual Meeting CD-ROM, Sacramento, CA. June 2004.

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54. Pulugurtha, S. S., S. S. Nambisan, V. Vasudevan, and G. Karkee. *Field Data Collection and Analyses to Support the Selection of Pedestrian Safety Countermeasures in Las Vegas*. Proceedings of the Eighth International conference of Applications of Advanced Technologies in Transportation, Beijing, China, May 26-28, 2004. Published by the American Society of Civil Engineering, Reston, Virginia. pp. 104-108. (Full Paper Refereed).
55. Pulugurtha, S. S., S. S. Nambisan, and D. Moss. *Web Based Tool for Transportation and GIS Database Management*. Map India 2003 Conference, New Delhi, India, January 28-31, 2003. Paper Number AD-071. (Full Paper Reviewed).
56. S. S. Nambisan, S. S. Pulugurtha, N. Wongchavalidkul, and V. Vasudevan. *Using GIS to Identify Pedestrian High Crash Locations*. Map India 2003 Conference, New Delhi, India, January 28-31, 2003. Paper Number AD-072. (Full Paper Reviewed).
57. Pulugurtha, S. S., S. S. Nambisan, V. Vasudevan, and N. Wongchavalidkul. *A Methodology to Identify High Pedestrian Crash Locations: An Illustration Using the Las Vegas Metro Area*. (Paper # 03-3952, Session 501) CD-ROM Preprint 82<sup>nd</sup> Annual Transportation Research Board Meeting, Washington, DC, January 12-16, 2003.
58. Pulugurtha, S. S., S. S. Nambisan, M. Dangeti and M. Kaseko. *Evaluation of the Default Parameters of CORSIM and VISSIM Traffic Simulation Software on Freeway Segments Using Field Data*. Applications of Advanced Technologies in Transportation, Proceedings of 7<sup>th</sup> International Conference, Cambridge, MA, August 5-7, 2002, p(803-810). (Full Paper Refereed).
59. Pulugurtha, S. S., M. Dangeti, S. S. Nambisan and M. Kaseko. *Simulating and Analyzing Incidents Using CORSIM and VISSIM Traffic Simulation Software*. Applications of Advanced Technologies in Transportation, Proceedings of 7<sup>th</sup> International Conference, Cambridge, MA, August 5-7, 2002, p(811-826). (Full Paper Refereed).
60. Nambisan, S., S., R.T. Romer, S. S. Pulugurtha, M. Saunders, and E. Breen. *Enhancing Pedestrian Safety in Las Vegas: A Public-Private Partnership*. Proceedings of the Institute of Transportation Engineers District 6 Annual Meeting, Palm Desert, CA. July 2002.
61. Nambisan, S., S., (2002). *A Team Oriented, Case-based Approach for a Transportation Engineering Course*. Paper Number 2002-1350, Session 2215. American Society for Engineering Education Annual Conference, Montreal, Canada. June 18. CD-ROM. (Full Paper Refereed).
62. Pulugurtha, S. S. and S. S. Nambisan. *Investigation of Travel Demand Patterns for Use in Traveler Information Systems* (Paper Number 02-2255). CD-ROM Pre-print, 81st Annual Transportation Research Board Meeting, Washington, DC, January 13-17. (Full Paper Refereed).
63. Nambisan, S., S., (2002). *Enhancing Team Efforts and Communication Skills: An Illustration in a Civil Engineering Course*. Proceedings of the American Soc for Engr Education Pacific Southwest Section Annual Conf, California State University, Fresno, CA. CD-ROM. (Full Paper Refereed).
64. S. S. Pulugurtha, S. S. Nambisan, and S. M. Pulugurtha. *Analysis of Crashes by Traffic Control Device in Clark County, Nevada*. CD-ROM Preprint of Papers Presented at the 80<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. Paper Number 01-3399. January 2001.

65. S. S. Pulugurtha and S. S. Nambisan. *Route Characterization for Risk Analysis*. CD-ROM Preprint of Papers Presented at the 80<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. Paper Number 01-3022. January 2001.
66. Nambisan, S. S., and S. S. Pulugurtha. *Estimating Time-Dependent O-D Trip tables with Trips Originating in Multiple Time Slices* (Paper Number 01-2610, Session Number 460). 80th Annual Transportation Research Board Meeting, Washington, DC, January 2001.
67. Nambisan, S. S., and K. Yazdani. *An Innovative Tool for Managing Pavement Markers and Markings*. CD-ROM Proceedings, the Sixth International Conference on the Applications of Advanced Technologies in Transportation, Singapore. June 28-30, 2000.
68. S. S. Pulugurtha, S. S. Nambisan, S. M. Pulugurtha. *Causal Factors and the Apparent Role of Turning Movement on Crashes in Clark County, Nevada*. CD-ROM Proceedings, Institute of Transportation Engineers 2000 District 6 Annual Meeting, San Diego, California. June 24-28, 2000.
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72. S. S. Pulugurtha and S. S. Nambisan. *Estimating Time Dependent Trip Tables for ITS Applications*. Compendium of Technical Papers of the District 6 Annual International Meeting of the Institute of Transportation Engineers, Las Vegas, Nevada. August 1-4, 1999. CD-ROM.
73. T. D. Miller, J. J. Jensen, S. S. Nambisan, S. S. Pulugurtha and C. H. Park. *An Internet Based Transportation Projects Management System*. Compendium of Technical Papers of the District 6 Meeting of the Institute of Transportation Engineers, Las Vegas, Nevada. Aug 1-4, 1999. CD-ROM.
74. E. M. Parentela and S. S. Nambisan. *An Evaluation of Emergency Preparedness for Hazardous Materials Transport*. In *Risk Analysis*, J. L. Rubio, C. A. Brebbia and J-L. Uso Editors. Proceedings of the First International Conference on Computer Simulation in Risk Analysis and Hazard Mitigation (Valencia, Spain). WIT Press, Boston, Southampton, England. Oct 5-7, 1998. pp. 147-156.
75. R. T. Romer and S. S. Nambisan. *A Systems Approach for Level of Service Analysis for Pedestrians*. Proceedings of the 68th Annual International Meeting of the Institute of Transportation Engineers, Toronto, Canada. August 9-12, 1998. On CD-ROM.
76. K. W. Ackeret and S. S. Nambisan. *Influence of Driver Behavior on Saturation Flow Rates at Signalized Intersections*. Proceedings of the ITE District 6 Annual Meeting. San Jose, CA July 5- 8, 1998. pp. 56-61.
77. N. Srinivasan and S. S. Nambisan. *Quantification and Analysis of Transportation System Accessibility*. Proceedings of the Transportation, Land Use and Air Quality: Making the Connection Conference, Sponsored by the American Society of Civil Engineers. Portland, OR. May 17-20, 1998. pp. 208-217.
78. J. S. Ridilla and S. S. Nambisan. *A Decision Support Tool to Estimate Life Cycle Costs of Heavy Haul Transport*. Eighth International High Level Radioactive Waste Management Conference, Las Vegas, NV. May 11-14, 1998. pp. 818-820.
79. Nambisan, S., S., and J. P. Rasas. *On the Allocation of Census Data to Traffic Analysis Zones for Travel Demand Forecasting*. Proceedings the Transportation, Land Use and Air Quality: Making the Connection Conference, Sponsored by the American Society of Civil Engineers. Portland, OR. May 17-20, 1998. pp. 414-423.
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- Sponsored by American Association of State Highway and Transportation Officials. Charlotte, NC. March 24-26, 1997. pp. 289-300.
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  90. Nambisan, Shashi, S., E.M. Parentela, R. R. Souleyrette, and E. S. Neumann. *Knowledge-Based Expert System to Monitor Impacts of Transporting Radioactive Materials*. International Conference on Artificial Intelligence Applications in Transportation Engineering, Conference Proceedings (S. Ritchie and C. Hendrickson, editors) pp. 479-491. San Buenaventura, CA. Sponsored by the Engineering Foundation. June 20-24, 1992.
  91. R. R. Souleyrette, E.M. Parentela and S. S. Nambisan. *Hotel-Casino Trip Generation Analysis Using GIS*. in Site Impact Traffic Assessment: Problems/Solutions (R.E. Paaswell, N. Rouphail and T. C. Sutaria, Editors), Urban Transportation Division, American Society of Civil Engineers. Chicago, IL. June 8-10, 1992 pp. 52-56.
  92. E.M. Parentela, S. S. Nambisan, and R. R. Souleyrette. *A Study of the Effectiveness of Bus Turnouts*. Institute of Transportation Engineers. District 6. 43rd Meeting, Compendium of Technical Papers. Boise, Idaho. 1990. pp. 237-246.
  93. Nambisan, Shashi, S., S.M. Moussavi, D. R. Drew. *Survivability Tradeoff Analysis Models*. Proceedings of the Modeling and Simulation Conference, Pittsburgh, PA. Volume 17, Part 5: *Controls, Robots, Networks, and General*, W. G. Vogt and M. H. Mickle editors. Instrument Society of America. pp. 1983-1988. April 1986.

### **PROFESSIONAL PRESENTATIONS AND CONFERENCE ACTIVITIES**

**International/National Conferences** (If I did not present the paper, the presenter's name is underlined)

1. Shashi Nambisan, *International Engineering Education Research*, 121<sup>st</sup> Annual Conference of the American Society for Engineering Education, Indianapolis, IN. June 15-18, 2014. Session W246. (Session Moderator Invited).
2. Shashi Nambisan, *Global Perspective and Experiential Learning in Civil Engineering*, 121<sup>st</sup> Annual Conference of the American Society for Engineering Education, Indianapolis, IN. June 15-18, 2014. Session T213. (Session Moderator Invited).

3. Shashi Nambisan, *Building National Data from Local Data: Role of Technologies and Collaborations*, 92<sup>nd</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C., January 13-17, 2013. Session 483. (Session Organizer and Moderator Invited).
4. Eric Fitzsimmons, Reg Souleyrette, Shashi Nambisan, *Measuring Horizontal Curve Vehicle Trajectories and Speed Profiles: Pneumatic Road Tube and Video Methods*, ITE Midwestern District and TRB 4<sup>th</sup> Urban Street Symposium, Chicago, IL, June 24-27, 2012.
5. Rhonda Young, Kristen Sanford-Bernhardt, Shashi Nambisan, *Core Concepts and Learning Outcomes in an Introductory Transportation Engineering Course: An Evaluation of Pilot Implementations*, Annual Conference of the American Society for Engineering Education, San Antonio, TX. June 11-14, 2012.
6. Rema Nilakanta, Giada Biasetti, and Shashi Nambisan. *An Unusual Partnership: Transportation Engineering Outreach and Spanish Translation Program*, Annual Conference of the American Society for Engineering Education, San Antonio, TX. June 11-4, 2012.
7. Timothy Becker, Joel Sikkema, Nicole Oneyear, Shashi Nambisan. *Catalyzing Graduate Student Research Dissemination: Case Study of a Technical Poster Competition*, Annual Conference of the American Society for Engineering Education, San Antonio, TX. June 11-4, 2012.
8. Shashi Nambisan, *Primer for National Transportation Workforce Summit*, Presentation Number: P12-5959, 91st Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C., January 22-26, 2012. Session 805. (Invited).
9. Rema Nilakanta, Giada Biasetti, and Shashi Nambisan. *An Enterprising Partnership For ¡Vamos!, A Spanish Language Forum For Transportation Workforce Development*, Paper Number 12-0502, 91<sup>st</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C., January 22-26, 2012. Session 697.
10. Shashi Nambisan, *National Research Frameworks, Part 2: Stakeholder Reactions to Key Observations*, Presentation Number: P12-5838, 91st Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C., January 22-26, 2012. (Full Paper Refereed). Session 284. (Invited).
11. Pulugurtha, Srinivas, Vinod Vasudevan, Shashi Nambisan, and Mukund Dangeti, *Evaluating the Effectiveness of Infrastructure Based Countermeasures on Pedestrian Safety*, 91st Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C., January 22-26, 2012. Session 260.
12. Pulugurtha, Srinivas, Vinod Vasudevan, Shashi Nambisan, and Mukund Dangeti, *Enhancing Pedestrian Safety Using Traffic Signs*, Paper ID: 417. Conference of Transportation Research Group of India / Indian Institute of Science, Bangalore, India. December 7-10, 2011.
13. Nambisan, Shashi S., Srinivas Pulugurtha, and Vinod Vasudevan, *Development Implementing Pedestrian Safety Countermeasures through University and Government Partnerships: A Case Study from Las Vegas, Nevada*, Improving Roadway Safety Programs Through University-Agency Partnerships: A Conference, Transportation Research Board, Washington, D.C., November 2-3, 2011.
14. Nambisan, Shashi S., Shauna Hallmark, and Rema Nilakanta, *Development of an E-Magazine to Attract Teens to Transportation*, 18<sup>th</sup> ITS World Congress, Orlando, FL. October 16-20, 2011.
15. Nambisan, Shashi S. *Sampling and Weighting—Lessons Learned—FHWA*, Session 6C, NHTS Conference, Transportation Research Board, National Academy of Sciences. Washington, D.C., June 6-7, 2011. (Invited – Session Moderator).
16. Vasudevan, Vinod and Shashi Nambisan, *Systematic Approach to Address Road Safety*, 1<sup>st</sup> International Conference on Road Safety Vision 2020. Udaipur, India. May 20, 2011.
17. Nambisan, Shashi S., *Enhancing Road Safety through Education and Engineering Strategies*, 1<sup>st</sup> International Conference on Road Safety Vision 2020. Udaipur, India. May 20, 2011. (Invited).

18. Nambisan, Shashi S., *Organizational Capacity Building: Some Reflections and Perspectives*, The Hindustan Construction Company, Mumbai, India. May 20, 2011 (Invited Presentation).
19. Nambisan, Shashi S. *Regional experiences – Successful Road Safety Campaigns*, Session 3 at “International Road Federation’s Symposium: Providing Infrastructure that improves Road Safety” Bucharest, Romania. May 10-11, 2011, (Invited – Session Moderator).
20. Nambisan, Shashi S. *Data, Data, Data! Using National Data for State and Local Purposes*, Session 650, 90<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C., January 23-27, 2011. (Invited – Session Moderator).
21. Nambisan, Shashi S. *Updates on Models for International Technology Transfer and Technical Cooperation*, International Research and Technology Transfer Subcommittee, A0010(2), 90<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C., January 23-27, 2011. (Invited).
22. Nambisan, Shashi S., Robert Sperry, and Erin Breen. *Enhancing Road Safety through Education and Outreach*. 5<sup>th</sup> International Road Federation Regional Conference on *Institutional Arrangements for Reduction of Road Fatalities*, New Delhi, India. November 25-26, 2010. (Invited).
23. Nambisan, Shashi S. *Sustainable Road Safety: Beyond Engineering Based Strategies*. Conference on Infrastructure, Sustainable Transportation and Urban Planning, CiSTUP, Indian Institute of Science, Bangalore. India. October 18-20, 2010. (Invited).
24. Nambisan, Shashi S. *Transportation Operations*. Conference on Infrastructure, Sustainable Transportation and Urban Planning, CiSTUP, Indian Institute of Science, Bangalore. India. October 18-20, 2010. (Invited – Session Moderator).
25. Nambisan, S., *Key Findings from a Scanning Tour to India*: Session P10-1548, 89<sup>th</sup> (With John Horsley, Pete Rahn, and Steve Simmons). Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. January 10-14, 2010. (Invited).
26. Vasudevan, V., S. Nambisan, and P. Kachroo. *Tiered System Based on Vehicle Miles Traveled for Highway Financing*. Session 588, 89<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. January 10-14, 2010.
27. Boeckenstedt, R., K. Gkritza, R. Souleyrette, and S. Nambisan, *Implications of Bioeconomy-Based Fuel Production to the Transportation Infrastructure in Iowa*, Session 440.89<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. Jan 10-14, 2010.
28. Nambisan, S. S. and G. J. Karkee, *Do Pedestrian Countdown Signals Influence Vehicle Speeds?* Session 432, 89<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. January 10-14, 2010.
29. Beyerlein, S., Bill, A. R., Van Schalkwyk, I., Sanford-Bernhardt, K. L., Young, R. K., Nambisan, S. S., and Turochy, R. E., *Need to Develop Core Concepts and Learning Outcomes for Introductory Transportation Engineering Course*, Session 366, 89<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. January 10-14, 2010.
30. Dangeti, M. R., S.S. Pulugurtha, V. Vasudevan, S. S. Nambisan, and O.C. White. *Evaluating the Effectiveness of ITS-Based Countermeasures: How Effective are they in Enhancing Pedestrian Safety*, (10-2217) Session 322, 89<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. January 10-14, 2010.
31. Pulugurtha, S.S., S. S. Nambisan, Dangeti, M. R., and V. Vasudevan. *Evaluation of the Effectiveness of Traffic Signs to Enhance Pedestrian Safety*, Session 322, 89<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. Jan 10-14, 2010.
32. Horsley, J., P. Rahn, S. Simmons, S. Nambisan, K. Platte, C. Francis, et al. AASHTO-Transportation Research Board Delegation on Scan / Tour of India to foster bilateral collaboration and cooperation (11 person team led by John Horsley, Executive Director, AASHTO), Nov 8-15, 2009. Several meetings with top level decision makers and executives from various Government of India ministries with transportation related responsibilities in New Delhi and Patna, India.
33. V. Kumaresan, V. Vasudevan, and S. Nambisan, *Development of a GIS-based Safety Analysis System*, ESRI User conference, San Diego, July 2009.

34. S. Nambisan, S. Pulugurtha, V. Vasudevan, M. Dangeti, *Strategies to Enhance Pedestrian Safety: from Theory to Practice*, Transforming Transportation: Pedestrian Safety and Public Transport for Vulnerable Populations, Workshop sponsored by The World Bank and World Resources Institute/EMBARQ, Washington DC, USA. January 15, 2009. (Invited).
35. G.J. Karkee, S.S. Pulugurtha, S. S. Nambisan, *Statistical Analysis of Pedestrian Crossing Behavior on Streets*, Session 604.88<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. January 11-15, 2009.
36. S. Nambisan, S. Pulugurtha, V. Vasudevan, M. Dangeti, and V. Virupaksha, *Effectiveness of Automatic Pedestrian Detection Device and Smart Lighting on Pedestrian Safety*, Paper Number 09-3171, Session 457. 88<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. January 11-15, 2009.
37. S. S. Nambisan, S. Pulugurtha, M. R. Dangeti, and V. Vasudevan. *An Evaluation of Pedestrian Safety Countermeasures in Las Vegas*. Session 391. 88<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. January 11-15, 2009. (Invited).
38. S. Nambisan, S. Pulugurtha, V. Vasudevan, M. Dangeti, *Strategies to Enhance Pedestrian Safety*, International Conference on Best Practices to Relieve Congestion on Mixed-Traffic Urban Streets in Developing Countries, IIT Madras, Chennai, India Sept 12-14, 2008.
39. M.R. Dangeti, S. S. Nambisan, V. Vasudevan, and S. Pulugurtha. *Do Portable Speed Trailers Work To Enhance Pedestrian Safety? Case Study: Las Vegas Metropolitan Area*, Paper Number 751, 10<sup>th</sup> International Conference on Applications of Advanced Technologies in Transportation, National Technical University of Athens, Greece. May 27-31, 2008.
40. Vasudevan, V. and S. S. Nambisan, *Developing Risk Indices To Estimate Risk Associated With Hazmat Shipments*, Paper Number 758, 10<sup>th</sup> International Conference on Applications of Advanced Technologies in Transportation, National Technical University of Athens, Greece. May 27-31, 2008.
41. Pulugurtha, S. S., S. S. Nambisan, and M. R. Dangeti. *A Decision Support Tool For Transportation Infrastructure Data Collection and Management*, Paper Number 782, 10<sup>th</sup> International Conference on Applications of Advanced Technologies in Transportation, National Technical University of Athens, Greece. May 27-31, 2008.
42. Nambisan, S. S., V. Vasudevan, M. R. Dangeti, V. Virupaksha, and S. Pulugurtha. *Evaluating the Effectiveness of Pedestrian Safety Improvement Countermeasures*, Paper Number 784, 10<sup>th</sup> International Conference on Applications of Advanced Technologies in Transportation, National Technical University of Athens, Greece. May 27-31, 2008.
43. S.S. Nambisan, S. Pulugurtha, M. Dangeti, and V. Vasudevan, *An Evaluation of Strategies to Enhance Pedestrian Safety*, Session A-5, 1<sup>st</sup> International Symposium on Transportation and Development Innovative Best Practices (TDIBP 2008), April 24-26, 2008, Beijing. (Invited).
44. S. S. Nambisan, *Design Capacity*, Session Chairman / Moderator C-3, 1<sup>st</sup> International Symposium on Transportation and Development Innovative Best Practices (TDIBP 2008), April 24-26, 2008, Beijing. (Invited).
45. S. S. Nambisan, *Transportation and the BioEconomy*, 2007 Biobased Industry Outlook conference: *Growing the Bioeconomy*, Iowa State University, Ames, IA. November 5, 2007. (Invited).
46. Larson, S. Q., and S. S. Nambisan, *DOT – University Partnerships: An Example from Iowa*, Research Advisory Committee (RAC) Annual Meeting, American Association of State Highway and Transportation Officials (AASHTO), Seattle, WA, August 8, 2007. (Invited).
47. J. Hanson and S. S. Nambisan, Session Chairs. *How to Effectively Teach Using Teams*, Session 2515, Annual Conference of the American Society for Engineering Education, Honolulu, HI. June 24-27, 2007 (Invited).
48. S. S. Nambisan, *Enhancing The Capstone Design Experience in Civil Engineering*, Session 2515, Paper Number AC 2007-1513, Annual Conference of the American Society for Engineering Education, Honolulu, HI. June 24-27, 2007
49. S. S. Nambisan. *Improving Engineering Graduate Student Experience Through Team-Based Efforts*, Session 3555: Methods & Techniques in Graduate Education. Abstract Number AC 2007-1773, Annual Conf of the American Society for Engineering Education, Honolulu, HI. June 24-27, 2007.



50. Vasudevan, V., S. S. Pulugurtha, and S. S. Nambisan, *Methods to Prioritize Pedestrian High Crash Locations and A Statistical Analysis of Relationships Between Them*. Session 353. Paper number 07-2283.86<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences. Washington, D.C. January 21-25, 2007.
51. S. S. Nambisan, Session Moderator. *Advanced Simulation Models II*, Track 2, Session 3. Applications of Advanced Technologies in Transportation International Conference, Sponsored by the American Society of Civil Engineers, Chicago, IL, August 13-16, 2006 (Invited).
52. Karkee, G., S.S. Pulugurtha, and S. S. Nambisan. "Evaluating the Effectiveness of "Turning Traffic Must Yield to Pedestrians "(R 10-15)" Sign." Paper Number 13949 Applications of Advanced Technologies in Transportation International Conference, Sponsored by the American Society of Civil Engineers, Chicago, IL, August 13-16, 2006.
53. Pulugurtha, S. S., S. S. Nambisan, and P. Maheshwari. "Estimating Pedestrian Trips in Urban Areas for Transportation Planning and Safety Analyses." Paper Number 13943 Applications of Advanced Technologies in Transportation International Conference, Sponsored by the American Society of Civil Engineers, Chicago, IL, August 13-16, 2006.
54. Pulugurtha, S. S., M. Dangeti, and S. S. Nambisan. *Development of Spatial Data Tools to Manage Transportation Networks*. Paper Number 13940. Applications of Advanced Technologies in Transportation International Conference, Sponsored by the American Society of Civil Engineers, Chicago, IL, August 13-16, 2006.
55. Karkee, G. and S. Nambisan, "An Analysis Effectiveness of Pedestrian Countdown Signals Based on Pedestrian Actions." Session 13: Non-motorized Travel, the ITE 2006 Annual Meeting and Exhibit, Milwaukee, August 6-9, 2006.
56. Pulugurtha, S. S., V.K Krishnakumar, and S. S. Nambisan. "Identification and Ranking of High Pedestrian Crash Zones for Allocation of Safety Funds." Paper number 06-1955. Session 438. Presented at the 2006 Annual Meeting of the TRB, Washington, D.C. Jan 21-25, 2006.
57. Karkee, G., S.S. Pulugurtha, and S. S. Nambisan. "An Evaluation of the Effectiveness of an In-pavement Flashing System for Pedestrian Safety." Paper number 06--1972. Session 439. Presented at the 2006 Annual Meeting of the TRB, Washington, D.C. Jan 21-25, 2006.
58. Pulugurtha, S. S., P. Maheshwari , and S. S. Nambisan. "Modeling Pedestrian Trip Generation in Urban Areas," Paper number 06-1973. Session 440. Presented at the 2006 Annual Meeting of the Transportation Research Board, Washington, D.C. Jan 21-25, 2006.
59. S. Nambisan and V. Parimi, "A Comparative Evaluation of the Safety Performance of Roundabouts and Traditional Intersection Controls," Annual Meeting and Exhibit of the Institute of Transportation Engineers, Melbourne, Victoria, Australia. Session 50, Paper Number 1402, Publication ID: AB05H503. August 7-10, 2005
60. Krishnakumar, K. V., S. S. Pulugurtha, and S. S. Nambisan. *Development of a GIS-based Tool to Identify Rank High Pedestrian Crash Zone*. Paper Number UC2230. 25<sup>th</sup> Annual ESRI International User Conference, San Diego, CA. July 25-29, 2005.
61. Dangeti, M., S. S., Pulugurtha, and S. S. Nambisan. *Development of a Work Order Management System*, 25<sup>th</sup> Annual ESRI International User Conference, San Diego, CA. July 25-29, 2005.
62. Krishnakumar, K. V., S. S., Pulugurtha, and S. S. Nambisan. *Identification and Ranking of High Pedestrian Crash Zones Using GIS*, Proceedings of the International Conference on Computing in Civil Engineering, American Society of Civil Engineers. Cancun, Mexico, July 12-15, 2005.
63. Dangeti, M., S. S., Pulugurtha, and S. S. Nambisan. *Work Order Management System Using GIS*, Proceedings of the International Conference on Computing in Civil Engineering, American Society of Civil Engineers. Cancun, Mexico, July 12-15, 2005.
64. Karkee, G., S. S. Pulugurtha, and S. S. Nambisan, "Evaluation of an In-pavement Flashing Light System" Institute of Transp Engineers District 6, Annual Meeting Kalispell, MT, July 10-13, 2005.
65. Piechota, T. and S. S. Nambisan. *Integration of Service Learning into Civil and Environmental Engineering Curriculum*. Annual Conference of the American Society for Engineering Education, Portland, OR. June 2005.

66. S. S. Nambisan, *Considerations in Risk Analysis and Emergency Management for Hazardous Materials Transport*, The ABCs of Integrating Intelligent Transportation Systems (ITS) Public Safety, Security and Emergency Management National Symposium – II, Sponsored by the Clark County Dept of Comp Planning, Nuclear Waste Division, Las Vegas, NV, June 1, 2005. (Invited).
67. Pulugurtha, S. S., S. S. Nambisan, M. Uddaraju. “*Methods to Rank Pedestrian High-Crash Zones*” 05-0723, Poster Session 317) 83<sup>rd</sup> Annual Transportation Research Board Meeting, Washington, DC, January 9-13, 2005.
68. S. S. Nambisan, Session Moderator - *Policy and Planning on Integrating Public Safety and ITS*, at The ABCs of Integrating Intelligent Transportation Systems (ITS) Public Safety, Security and Emergency Management National Symposium – I, Sponsored by the Clark County Department of Comprehensive Planning, Nuclear Waste Division, Las Vegas, NV, October 25-26, 2004.
69. S. S. Pulugurtha and S. S. Nambisan. Web Based Tool for Transportation and GIS Database Management. Management Information Systems (MIS) Conference 2004, Hosted by the Wessex Institute of Technology, Southampton in Malaga, Spain. September 13-15, 2004.
70. S. S. Nambisan. *Involving Undergraduate and High School Students in Research: Opportunities, Challenges, and Rewards*, Annual Conference of the American Society for Engineering Education, Salt Lake City, UT. June 2004. Document: 2004-2235.
71. Nambisan, S. S. Session Chair. 1. *GPS and Probe Vehicles*; 2. *Artificial Intelligence Applications*. 8<sup>th</sup> International Conference on Applications of Advanced Technologies in Transportation Engineering. May 28, 2004. Beijing, China. (Invited Participation).
72. Pulugurtha, S. S. and S. S. Nambisan. *Estimating Reliability and Extent for the Las Vegas Area Congestion Management System* Am. Society of Civil Engineering’s Applications of Advanced Technologies in Transportation Conference, Beijing, China, May 26-28, 2004. Paper Number 417.
73. Pulugurtha, S. S., S. S. Nambisan, V. Vasudevan, and N. Wongchavalidkul. *Identification of High Pedestrian Crash Sites and Selection of Countermeasures for the Las Vegas Metropolitan Area*. American Society of Civil Engineering’s Applications of Advanced Technologies in Transportation Conference, Beijing, China, May 26-28, 2004. Paper Number 418.
74. Pulugurtha, S. S., S. S. Nambisan, V. Vasudevan, and G. Karkee. *Field Data Collection and Analyses to Support the Selection of Pedestrian Safety Countermeasures in Las Vegas*. American Society of Civil Engineering’s Applications of Advanced Technologies in Transportation Conference, Beijing, China, May 26-28, 2004. Paper Number 419.
75. Nambisan, S. S., S. S. Pulugurtha, and V. Vasudevan. *Identification of Engineering and ITS Based Pedestrian Safety Treatments: A Study of Las Vegas Metropolitan Area*. The 4<sup>th</sup> International Conf on Walking in the 21<sup>st</sup> Century: Health, Equity and Environment, Portland OR, May 1-3, 2003.  
S. S. Pulugurtha and S. S. Nambisan. *Use of Crash Data to Estimate Spatial and Temporal Variations in the Extent and Reliability of Congestion*. 16<sup>th</sup> Annual Geospatial Information Systems for Transportation Symposium, Colorado Springs, March 17-19, 2003 (Selected for presentation, but could not present due to travel problems).
76. Nambisan, S. S., *Tools for Transportation Infrastructure Management*. Presentation to the Additional Chief Secretary and Board of Advisors, Public Works Department, Government of Kerala, Trivandrum, Kerala. Jan 28, 2003. (Invited Participation).
77. Pulugurtha, S. S., S. S. Nambisan, and D. Moss. *Web Based Tool for Transportation and GIS Database Management*. Map India 2003 Conference, New Delhi, India, January 28-31, 2003.
78. S. S. Nambisan, S. S. Pulugurtha, N. Wongchavalidkul, and V. Vasudevan. *Using GIS to Identify Pedestrian High Crash Locations*. Map India 2003 Conf, New Delhi, India, January 28-31, 2003.
79. S. S. Nambisan, Panelist Round Table Discussion, *The Future of GIS and Transportation*, Map India 2003 Conference, New Delhi, India, January 28-31, 2003. (Invited Participation).
80. Nambisan, S. S. and S. S. Pulugurtha. *Pedestrian Crash Picture in Las Vegas and Potential Solutions*. (Paper Number 03-6187, Session Number 711) 82<sup>nd</sup> Annual Transportation Research Board Meeting, Washington, DC, January 12-16, 2003.
81. Pulugurtha, S. S., S. S. Nambisan, V. Vasudevan, and N. Wongchavalidkul. *A Methodology to Identify High Pedestrian Crash Locations: An Illustration Using the Las Vegas Metro Area*. (Paper #

- 03-3952, Session 501) 82<sup>nd</sup> Annual Transportation Research Board Meeting, Washington, DC, January 12-16, 2003.
82. Nambisan, S. S., *Information Systems based Tools for Transportation Infrastructure Management*. Presentation to the Additional Chief Secretary, Public Works Department, Government of Kerala, Trivandrum, Kerala. October 25, 2002. (Invited Participation).
  83. Pulugurtha, S. S., S. S. Nambisan, M. Dangeti and M. Kaseko. *Evaluation of the Default Parameters of CORSIM and VISSIM Traffic Simulation Software on Freeway Segments Using Field Data*. Applications of Advanced Technologies in Transportation, 7<sup>th</sup> International Conference, Cambridge, MA, American Society of Civil Engineers, August 5-7, 2002, pp. 803-810.
  84. Pulugurtha, S. S., M. Dangeti, S. S. Nambisan and M. Kaseko. *Simulating and Analyzing Incidents Using CORSIM and VISSIM Traffic Simulation Software*. Applications of Advanced Technologies in Transportation, 7<sup>th</sup> International Conference, Cambridge, MA, American Society of Civil Engineers, August 5-7, 2002, pp. 811-826.
  85. Nambisan, S., S., *A Team Oriented, Case-based Approach for a Transportation Engineering Course*. Paper Number 2002-1350, Session 2215. American Society for Engineering Education Annual Conference, Montreal, Canada. June 18, 2002.
  86. Pulugurtha, S. S. and S. S. Nambisan. *Investigation of Travel Demand Patterns for Use in Traveler Information Systems* (Paper Number 02-2255). 81<sup>st</sup> Annual Transportation Research Board Meeting, Washington, DC, January 13-17, 2002.
  87. Mukund Dangeti, Mohamed Kaseko, Srinivas S. Pulugurtha and Shashi S. Nambisan. *Use of GPS Technology in Measurement of Vehicle Travel Time, Delay and Queue Lengths on Arterial Streets*. Seventh International Conference on Applications of Advanced Technologies in Transportation, Cambridge, MA. Sponsored by the American Society of Civil Engineers. August 5-7, 2002.
  88. Srinivas S. Pulugurtha and Shashi S. Nambisan. *Using GIS to Identify Problem Areas and Enhance Pedestrian Safety in Clark County, Nevada*. 15th Annual Geospatial Information Systems for Transportation Symposium, Atlanta, GA, March 25-27, 2002.
  89. Shashi S. Nambisan. *Development of Internet-Based Tools for Transportation Infrastructure Management*. Annual Convention of the American Road & Transportation Builders Association Las Vegas, NV. March 18, 2002. (Invited Participation)
  90. Shashi S. Nambisan. *Walking in Las Vegas: Pedestrian Safety Concerns and Countermeasures*. ProBike/ProWalk 2002 Conference, St. Paul, Minnesota. September 3-6, 2002
  91. Shashi S. Nambisan. *A Team Oriented, Case-based Approach for a Transportation Engineering Course*. Session 2215. American Society for Engineering Education Annual Conference, Montreal, Canada. June 18, 2002.
  92. Srinivas S. Pulugurtha, and Shashi S. Nambisan. *Investigation of Travel Demand Patterns for Use in Traveler Information Systems* (Paper Number 02-2255, Session Number 270). 81<sup>st</sup> Annual Transportation Research Board Meeting, Washington, DC, January 13-17, 2002.
  93. Mohamed Kaseko, Walter Jr. Vodrazka and Shashi S. Nambisan (Srinivas S. Pulugurtha) *Comparative Evaluation of Field Performance of Pavement Marking Products on Alternative Test Deck Designs* (Paper Number 01-3338, Session Number 444). 80<sup>th</sup> Annual Transportation Research Board Meeting, Washington, DC, January 2001.
  94. Nambisan, Shashi S. Session Chair. *Traffic Modeling*. 6<sup>th</sup> Intl Conf on Applications of Advanced Technologies in Transportation Engineering. June 28-20, 2000. Singapore. (Invited Participation).
  95. Nambisan, Shashi S. Session Chair. *Planning Challenges for Airports of the Future*. 26<sup>th</sup> Intl Air Transportation Conference, ASCE. San Francisco, CA. June 18-21, 2000. (Invited Participation).
  96. Pulugurtha, Srinivas S., Shashi S. Nambisan, Chang-Hwan Park, Jeffery J. Jensen, and Thomas D. Miller. *Internet Based Transportation and GIS Database Management System*. Concurrent Session 3, at the thirteenth Annual GIS for T Symposium, Minneapolis, MN. March 27-29, 2000.
  97. Pulugurtha, Srinivas S., Shashi S. Nambisan, and Nanda Srinivasan. *Evaluating Accessibility and Optimizing Locations of Transit Service Facilities Using GIS*. 2<sup>nd</sup> National GIS in Transit Conference, Sponsored by the Federal Transit Administration, National Center for Transit Research

- at the University of South Florida and the Research and Special Programs Administration, U. S. D. O. T., Tampa, FL. May 16-18, 1999.
98. Nambisan, Shashi S., Srinivas S. Pulugurtha, Jeffery J. Jensen, Robert Puterski, Tom Miller and Chang Hwan Park, *Prototype Internet Applications for Transportation System Management*. 78<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 1999.
  99. Nambisan, Shashi S. *Transportation Management and Intelligent Systems*. Session Moderator. The 1998 International Computing Congress, American Society of Civil Engineers, Boston, MA. October 18-21, 1998. (Invited Participation).
  100. S. S. Pulugurtha and Shashi S. Nambisan. *A Methodology to Estimate Time Dependent Origin-Destination Trip Tables*. International Computing Congress, American Society of Civil Engineers, Boston, MA. October 18-21, 1998.
  101. E. M. Parentela and Shashi S. Nambisan. *An Evaluation of Emergency Preparedness for Hazardous Materials Transport*. In Risk Analysis, J. L. Rubio, C. A. Brebbia and J-L. Uso Editors. Proceedings of the First International Conference on Computer Simulation in Risk Analysis and Hazard Mitigation (Valencia, Spain). WIT Press, Southampton, England. Oct 5-7, 1998. pp. 147-156.
  102. R. T. Romer and Shashi S. Nambisan. *A Systems Approach for Level of Service Analysis for Pedestrians*. 68th Annual International Meeting of the Institute of Transportation Engineers, Toronto, Canada. August 9-12, 1998.
  103. N. Srinivasan and Shashi S. Nambisan. *Quantification and Analysis of Transportation System Accessibility*. Transportation, Land Use and Air Quality: Making the Connection Conference, Sponsored by the American Society of Civil Engineers. Portland, OR. May 17-20, 1998.
  104. Nambisan, Shashi S. and J. P. Rasas. *On the Allocation of Census Data to Traffic Analysis Zones for Travel Demand Forecasting*. Transportation, Land Use and Air Quality: Making the Connection Conf, Sponsored by the American Society of Civil Engineers. Portland, OR. May 17-20, 1998.
  105. J. S. Ridilla and Shashi S. Nambisan. *A Decision Support Tool to Estimate Life Cycle Costs of Heavy Haul Transport*. Eighth International High Level Radioactive Waste Management Conference, Las Vegas, NV. May 11-14, 1998.
  106. S. S. Pulugurtha, Shashi S. Nambisan and N. Srinivasan. *Evaluating Transit System Accessibility Using GIS*. Geographic Information Systems in Transportation 1998 Symposium, Sponsored by Am Assn of State Highway and Transportation Officials, Salt Lake City, UT. April 20-22, 1998.
  107. Nambisan, Shashi S. and Nanda Srinivasan. *A Framework for Evaluating Accessibility of Urban Transportation Networks*. The 77<sup>th</sup> Annual Transportation Research Board Meeting, National Academy of Sciences. Washington, D.C. January 11-15, 1998. Paper Number 981356.
  108. Nambisan, Shashi S. *Transportation Program Risks and Issues*. Panel Member on Transportation at the session titled *Yucca Mountain: Problems and Potentials* 214<sup>th</sup> national Meeting of the American Chemical Society, Las Vegas, NV. Sept 10, 1997. (Invited Participation).
  109. Nambisan, Shashi S. *Airport Automated People Movers- I*. Session Moderator, Sixth International Conference on Automated People Movers, Sponsored by ASCE, Las Vegas, NV. April 9-13, 1997. (Invited Participation).
  110. Nambisan, Shashi S. and Diane I. Morse. *Issues Related to the Development of a GIS-Based Roadway Management System*. Geographic Information Systems in Transportation 1997 Symposium, Sponsored by American Association of State Highway and Transportation Officials, Charlotte, NC. March 24-26, 1997.
  111. Nambisan, Shashi S. *Transportation Systems and Information Technology: A Peek into the Future*. Presentation to Eastman Kodak's Entertainment and GO teams for Market Development, Planning and Research, Las Vegas, NV. March 17, 1997. (Invited Participation).
  112. E. M. Parentela and Shashi S. Nambisan. *Evaluating Risk and Emergency Preparedness for Hazardous Materials Transportation*. Paper Number 971203, Session # 285. 76<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences, Washington, D.C. January 1997.
  113. R. T. Romer and Shashi S. Nambisan. *An Integrated Systems Methodology for Pedestrian Traffic Flow Analysis*. Paper Number 971195, Session Number 115. 76<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences, Washington, D.C. January 1997.

114. S. S. Pulugurtha and Shashi S. Nambisan. *An Evaluation of Genetic Algorithms to Analyze Aircraft Ground Holding Policy*. Paper Number 971201, Session Number 393, 76<sup>th</sup> Annual Meeting of the Transportation Research Board, National Academy of Sciences, Washington, D.C. January 1997.
115. Nambisan, Shashi S. and R. R. Souleyrette. *Development of Public Policy for Hazardous Materials Transportation*. 1996 Annual Conference and Exposition of the American Society of Civil Engineers (ASCE). Washington, D.C., November 10-14, 1996.
116. Nambisan, Shashi S. and J. J. Jensen. *A GIS-Based Approach to Evaluate Urban Congestion Using Emergency Response Data*. URISA 1996, 34th Annual Conf and Exposition of the Urban and Regional Info Systems Assn. Salt Lake City, UT. July 27-Aug 1, 1996. (*Invited Presentation*).
117. Nambisan, Shashi S. and J. J. Jensen. *Using GIS for Urban Congestion Analysis*. National Traffic Data Acquisition Conference (NATDAC) 96. Sponsored by FHWA and the New Mexico DOT, Albuquerque, NM. May 5-9, 1996. (*Invited Presentation*).
118. Nambisan, Shashi S. *GIS Applications for Local Government*. *Session Moderator*, GIS-T 1996 Symposium, Sponsored by AASHTO, Kansas City, MO, March 31-April 4, 1996.
119. Nambisan, Shashi S. and J. J. Jensen. *GIS Applications for Linking Travel Demand Modeling and Air Quality Analysis*. GIS-T 1996 Symposium, Sponsored by AASHTO, Kansas City, MO, March 31-April 4, 1996.
120. Nambisan, Shashi S. and E.M. Parentela. *Analysis of Highway Routing Strategies for Transportation of High Level Wastes and Spent Nuclear Fuel*. Proceedings of PATRAM 1995, Packaging and Transportation of Radioactive Materials International Conference, Las Vegas, NV. Dec 3-8, 1995.
121. E. M. Parentela and Shashi S. Nambisan. *Emergency Preparedness Analysis for Radioactive Materials Routing*. Proceedings of PATRAM 1995, Packaging and Transportation of Radioactive Materials International Conference, Las Vegas, NV. Dec 3-8, 1995.
122. E. M. Parentela and Shashi S. Nambisan. *Risk and Emergency Preparedness Based Analysis for Hazardous Materials Transportation*. Proceedings of PATRAM 1995, Packaging and Transportation of Radioactive Materials International Conference, Las Vegas, NV. Dec 3-8, 1995.
123. Nambisan, Shashi S. and K. Madhavapeddi. *Risk Assessment of Spent Nuclear Fuel Transportation*. Proceedings of PATRAM 1995, Packaging and Transportation of Radioactive Materials International Conference, Las Vegas, NV. Dec 3-8, 1995.
124. Nambisan, Shashi S. *GIS Training and LTAP Activities: Back to the Future*. 1995 Local Technology Assistance Program Conference, Kansas City, Missouri, August 6-9, 1995. (*Invited Presentation*)  
Nambisan, Shashi S. and J. J. Jensen. *Model Linkages and GIS Applications for Air Quality Planning*. accepted for presentation and publication - but, I was not able to attend the conference and present the paper due to an emergency. Fifth Conference on the Application of Transportation Planning Methods, Sponsored by the Transportation Research Board. Seattle, WA. April 17-21, 1995.
125. S. Jarugumilli, M. Kaseko and Shashi S. Nambisan. *Analysis of Trip Generation Characteristics in the Third World: A Case Study for the City of Dar-e-Salaam, Tanzania*. Exploring New Frontiers: A Symposium on African-American Mobility Issues. Sponsored by University of South Florida-CUTR, FHWA, and Florida DOT. Tampa, Florida. April 5-7, 1995.
126. Nambisan, Shashi S. and X. Yang. *A GIS-Based Decision Support System for Routing Analysis*. 74th Annual Meeting of the Transportation Research Board, Washington, D.C. Jan 22-28, 1995.
127. Nambisan, Shashi S. and X. Yang. *Development of GIS-Based Routing Model*. 1994 ESRI User Conference, Palm Springs, CA. May, 1994.
128. Nambisan, Shashi S. E.M. Parentela and M. Lee. *Analysis of Potential Highway Routes to Yucca Mountain*. International High Level Radioactive Waste Management Conference, Sponsored by ASCE & ANS. Las Vegas, NV. May, 1994.
129. Nambisan, Shashi S. and E.M. Parentela. *An Evaluation of Rail Access Routes to Yucca Mountain*. International High Level Radioactive Waste Management Conference, Sponsored by ASCE and ANS. Las Vegas, NV. May, 1994.

130. Nambisan, Shashi S., E.M. Parentela, S. Burli and W.C. Vodrazka. *Emergency Response Preparedness Analysis for Radioactive Materials Transportation*. International High Level Radioactive Waste Management Conf, Sponsored by ASCE and ANS. Las Vegas, NV. May, 1994.
131. Nambisan, Shashi S. and A. Chagari. *Population Estimation Techniques for Routing Analysis*. International High Level Radioactive Waste Management Conference, Sponsored by ASCE and ANS. Las Vegas, NV. May, 1994.
132. Nambisan, Shashi S. *Analytical Tools and Resources for Routing and Emergency Preparedness Analysis*. Hazardous Materials Transportation and Emergency Management National Conference: Resources for Local Government Officials, Sponsored by Urban Energy & Transportation Corporation. Bethesda, MD. April 26, 1994. (Invited presentation)
133. Nambisan, Shashi S. *Transportation of Radioactive Materials to Yucca Mountain: Some Implications of Highway Route Designation in Nevada*. HazMat Transport '93 Conference (sponsored by TRB and ASCE), Albuquerque, NM. August 23-25, 1993.
134. Nambisan, Shashi S. *Transportation of Hazardous Materials: Regulations, Policies, and Responsibilities*. HazMat Transport '93 Conference (sponsored by TRB and ASCE), Albuquerque, NM. August 23-25, 1993. (Also Organized and Moderated the workshop/session).
135. Nambisan, Shashi S. *Applying GIS to Railway Geometric Design*. International Conference on Transportation Facilities Through Difficult Terrain, Snowmass, CO, August 10-13, 1993.
- Nambisan, Shashi S. *A GIS-Based Rail Infrastructure Management System*. Accepted for Presentation, Pacific Rim TransTech Conference, Seattle, WA. July 25-28, 1993. (I could not present the paper since I had to return to UNLV following a student's death).
136. Nambisan, Shashi S. *GIS-Based Applications for Rail Infrastructure Analyses*. Infrastructure Management: New Challenges, New Methods Conference (Sponsored by ASCE), Denver CO, June 21-23, 1993. (Also organized and moderated the session).
137. Nambisan, Shashi S. *GIS Applications in the Development of an Integrated Hazardous Material Routing System*. AASHTO GIS-T Symposium, Albuquerque, NM, March 29-31, 1993.
138. Nambisan, Shashi S. *Knowledge-Based Expert System to Monitor Impacts of Transporting Radioactive Materials*. International Conference on Artificial Intelligence Applications in Transportation Engineering, San Buenaventura, CA. Sponsored by the Engineering Foundation. June 20-24, 1992.
139. Nambisan, Shashi S. *Hotel-Casino Trip Generation Analysis Using GIS*. ASCE Specialty Conf on "Site Impact Traffic Assessment: Problems and Solutions," Chicago, IL June 8-10, 1992.
140. Nambisan, Shashi S. *Potential for Geographic Information System (GIS) Applications to Transportation and Air Quality*. "Transportation Planning and Air Quality" Conference, Santa Barbara, CA. July 28-31, 1991.
141. Nambisan, Shashi S. *Birds of a Feather Luncheon Discussion Session*. Session Moderator, AM/FM International's XIV Annual Conf: "AM/FM/GIS - Navigating the Future" San Diego, CA. March 1991.
142. Nambisan, Shashi S. and R. R. Souleyrette. *GIS in Transportation Research: State and Regional Applications*. AM/FM International's XIV Annual Conference: "AM/FM/GIS - Navigating the Future" San Diego, CA. March 24-27, 1991.
143. Nambisan, Shashi S. *Optimal Route Selection for High Level Nuclear Waste Transport Based Upon Radiological Risk*. First Annual International High-Level Radioactive Waste Management Conference, Sponsored by ASCE and ANS, Las Vegas, NV. April 1990.
144. Nambisan, Shashi S. *Aircraft Maintenance and Airline Safety: Some Evidence from Service Difficulty Reports*. ASCE's 20th International Air Transportation Conference, Orlando 1988.

#### ***Regional/State and Local Conferences and Meetings***

1. S. Nambisan and M. Ozen, *An Exploratory Analysis of Large Truck Crashes in the US*, 2013 Mid-Continent Transportation Research Symposium, Institute for Transportation, Iowa State University Ames, Iowa, August 2013.
2. R. Nilakanta, S. Nambisan, and S. Hallmark. *Explore Transportation with Go!: An Innovative of an*

- Online Publication to Attract Teens to Transportation*, Mid-Continent Transportation Research Symposium Ames, Iowa. August 18, 2011.
3. 22<sup>nd</sup> Annual Transportation Research Conference, Center for Transportation Studies, University of Minnesota, St. Paul, MN. May 24-25, 2011.
  4. B. Stone, R. Nilakanta, S. Nambisan, and S. Hallmark. *Evaluation of the Effectiveness of an Online Transportation Workforce Development Tool*, 22<sup>nd</sup> Annual Transportation Research Conference, Center for Transportation Studies, University of Minnesota, St. Paul, MN. May 24-25, 2011.
  5. R. Nilakanta, S. McCoy, S. Nambisan, and S. Hallmark, Madison. *Go! • ¡Vamos! Transportation Education and Outreach to Teens*, Meeting Tomorrow's Transportation Challenges, Mid -Continent Research Forum, University of Madison, Wisconsin. August 19-20, 2010.
  6. W. Zhang, K. Gkritza, S. Nambisan, and N. Keren, *A Study of the Effectiveness of Iowa's Driver Improvement Program*, Meeting Tomorrow's Transportation Challenges, Mid -Continent Research Forum, University of Madison, Wisconsin. August 19-20, 2010.
  7. B. Mennecke, R. Nilakanta, and S. Nambisan, *Using an Online Magazine to Convey Real-World Math and Science Concepts Related to Transportation*, Poster Presentation at the Iowa Math & Science Teacher Educators Summit, Grinnell College, Grinnell, Iowa August 2010.
  8. S. McCoy, M. Brink, and S. Nambisan. *Go! Magazine as a Tool to Attract Teenagers to Transportation*, Iowa Mathematics and Science Education Partnership (IMSEP) Day at the State Capitol, Des Moines, Iowa. March 24, 2010.
  9. S. Nambisan, *Opportunities, Partnerships, and Rewards in Transportation Education and Research*, Oklahoma DOT-Oklahoma Transportation Center Transportation Research Day, Oklahoma City, OK. October 7, 2009 (Invited / Plenary Session Speaker).
  10. V. Vasudevan, S. Nambisan (2009), *An Introduction to Tiered VMT based System for Highway Financing*, ITE Intermountain Session Meeting, Jackson, WY, USA. May 14, 2009.
  11. Vasudevan, V. and S. Nambisan, *Policy Analysis for Highway Financing*, 16<sup>th</sup> Annual Fall Transportation Conference, Sponsored by the Nevada Chapters of ASCE, ITE, Nevada Chapter of ITS America and the Transportation Research Center, UNLV, Las Vegas, NV. October 9-10, 2008.
  12. Nambisan, S., R. Souleyrette, Z. Hans, and D. Gieseman, *Considerations for Transportation Safety and Security*, Presentation to the InfraGard Iowa Chapter, Des Moines, Iowa. April 29, 2008.
  13. Nambisan, S. S., M. R. Dangeti, V.K. Vanapalli, and A.K. Singh, *Effectiveness of Continuous Shoulder Rumble Strips in Reducing "Ran-off-roadway" Single-vehicle Crashes in Nevada*, Proceedings of the 2007 Mid-Continent Transportation Research Symposium, Center for Transportation Research and Education, Iowa State University Ames, Iowa, August 2007.
  14. Vasudevan, V. and S.S. Nambisan, *An Evaluation of Relationship between the Seat Belt Usage Rates of Front Seat Occupants and Their Drivers*, Proceedings of the 2007 Mid-Continent Transportation Research Symposium, Center for Transportation Research and Education, Iowa State University Ames, Iowa, August 2007.
  15. S. S. Nambisan, V. Vanapalli, M. Dangeti. *Are Rumble Strips Effective in Improving Safety on Roadways?* Session 4. 14<sup>th</sup> Annual Fall Transportation Conference, Sponsored by the Nevada Chapters of ASCE, ITE, Nevada Chapter of ITS America and the Transportation Research Center, University of Nevada, Las Vegas, Las Vegas, NV. Oct 12-13, 2006.
  16. V. Vasudevan, S. Nambisan, R. Ganta (2006), *Safety and Hazard Analysis on the Transport Network in Lincoln County*, 14<sup>th</sup> Annual Fall Transportation Conference, Sponsored by the Nevada Chapters of ASCE, ITE, Nevada Chapter of ITS America and the Transportation Research Center, University of Nevada, Las Vegas, Las Vegas, NV, USA. Oct 12-13, 2006.
  17. S. S. Nambisan. *Developing Effective Partnerships Between Universities and Local Agencies: A Story from UNLV*, Mid Continent Transportation Research Forum 2006: Making Research Pay Off. Hosted by the Midwest Regional University Transportation Center, University of Wisconsin, Madison, WI. August 17-18, 2006. (Invited).



18. S. S. Nambisan. *Taking Roundabouts to the Next Level* (Session 6A), Session Moderator. Institute of Transportation Engineers District 6 Annual Conference, Honolulu, HI. June 25-28, 2006. (Invited).
19. Dangeti, M., and S. S. Nambisan. *Update on FHWA Pedestrian Safety Program in Las Vegas*, 2006 Nevada Bicycle & Pedestrian Conference, Hosted by the Nevada Department of Transportation, Lake Tahoe, NV. April 27, 2006.
20. Naroor, R., and S. S. Nambisan. *Queue Analysis at Gated Communities*. Session 8. 13<sup>th</sup> Annual Fall Transportation Conference, Sponsored by the Nevada Chapters of ASCE, ITE, Nevada Chapter of ITS America and the Transportation Research Center, UNLV, Las Vegas, NV. Oct 21-22, 2005.
21. Karkee, G. and S. Nambisan. *An Evaluation of the Effectiveness of an In-Pavement Flashing System*, Session 6. 13<sup>th</sup> Annual Fall Transportation Conference, Sponsored by the Nevada Chapters of ASCE, ITE, Nevada Chapter of ITS America and the Transportation Research Center, University of Nevada, Las Vegas, Las Vegas, NV. Oct 21-22, 2005.
22. S. S. Pulugurtha, V. Krishnakumar, and S. S. Nambisan. *An Analysis of Pedestrian Safety: A Case Study from Clark County, Nevada*. Session 6C. Institute of Transportation Engineers District 6 Annual Meeting, Kalispell, Montana, July 10-13, 2005.
23. Karkee, G., S. S. Nambisan, and S. S. Pulugurtha. *Effectiveness of In-Pavement Flashing Light System*. Session 6C. Institute of Transportation Engineers District 6 Annual Meeting, Kalispell, Montana, July 10-13, 2005.
24. Krishnakumar, V., S. S. Pulugurtha, and S. S. Nambisan. *A GIS Based Procedure to Identify and Prioritize High Pedestrian Crash Zones*. Session 9C. Institute of Transportation Engineers District 6 Annual Meeting, Kalispell, Montana, July 10-13, 2005.
25. Krishnakumar, V., S. S. Pulugurtha, and S. S. Nambisan. *Using Descriptive Analysis of Pedestrian Crashes to Identify Safety Problems*. Annual Fall Transportation Conference, Sponsored by the Nevada Chapters of ASCE, ITE, Nevada Chapter of ITS America and the Transportation Research Center, University of Nevada, Las Vegas, Las Vegas, NV. August 12-13, 2004.
26. Pulugurtha, S. S. and S. S. Nambisan. *Evaluation of Pedestrian Countdown Timers*. Annual Fall Transportation Conference, Sponsored by the Nevada Chapters of ASCE, ITE, Nevada Chapter of ITS America and the Transportation Research Center, UNLV, Las Vegas, NV. August 12-13, 2004.
27. Pulugurtha, S. S. and S. S. Nambisan. *Effectiveness of Pedestrian Countdown Timers to Enhance Safety in Las Vegas*. Institute of Transportation Engineers District 6 Annual Meeting, Sacramento, CA. June 2004.
28. Nambisan, S. S., and R. T. Romer. *Engineering Pedestrian Safety: Potential Strategies for Las Vegas*. APWA Nevada Chapter Fall Conference, Lake Tahoe, NV. October 2-4, 2002.
29. Nambisan, S. S., S. S. Pulugurtha and R. T. Romer. *Evaluation of Engineering and ITS Based Pedestrian Safety Treatments in Las Metro Area*. 2002 Fall Transportation Conference, UNLV, Las Vegas, NV, September 2002.
30. Pulugurtha, S. S. N. Wongchavalidkul, V. Vasudevan and S. S. Nambisan. *Identification of High Pedestrian Crash Locations in Las Metro Area*. 2002 Fall Transportation Conference, UNLV, Las Vegas, NV, September 2002.
31. Nambisan, S., S., R.T. Romer, S. S. Pulugurtha, M. Saunders, and E. Breen. *Enhancing Pedestrian Safety in Las Vegas: A Public-Private Partnership*. Institute of Transportation Engineers District 6 Annual Meeting, Palm Desert, CA. July 2002.
32. Nambisan, S., S. *Enhancing Team Efforts and Communication Skills: An Illustration in a Civil Engineering Course*. Proceedings of the American Society for Engineering Education Pacific Southwest Section Annual Conference, California State University, Fresno, CA. April 8, 2002.
33. Nambisan, Shashi S. *FHWA Pedestrian Safety Program: A Public / Private Partnership*, ITE Nevada Chapter Meeting, Las Vegas, NV, November 15, 2001.
34. M. Dangeti, M. Kaseko, S. S. Pulugurtha and Shashi S. Nambisan. *Application of GPS Technology in Measurement of Vehicle Travel Time and Delay*. 2001 Fall Transportation Conference, UNLV, Las Vegas, NV, September 20-21, 2001.
35. Nambisan, Shashi S. *Routing and Risk Analysis for Nuclear Waste Transportation*. Annual Fall Transportation Conference, Sponsored by the Nevada Chapters of ASCE, ITE, Nevada Chapter of

- ITS America and the Transportation Research Center, University of Nevada, Las Vegas, Las Vegas, NV. September 21-22, 2000.
36. Pulugurtha, Srinivas S., S. S. Nambisan, and Sujana M. Pulugurtha. *Causal Factors and Apparent Role of Turning Movement on Crashes in Clark County, Nevada*. ITE 2000 District 6 Annual Meeting, San Deigo, California, June 24-28, 2000.
  37. Nambisan, Shashi S. and W. C. Vodrazka, Jr. *Analysis of Child Safety Seat Usage in the State of Nevada*, Annual Fall Transportation Conference, Sponsored by the Nevada Chapters of ASCE, ITE, Nevada Chapter of ITS America and the Transportation Research Center, University of Nevada, Las Vegas, Las Vegas, NV. September 14-15, 1999.
  38. Srinivas S. Pulugurtha, Chang-Hwan Park and Shashi Nambisan, *Transportation Management System Using Internet Mapping@*, the 9<sup>th</sup> Annual Conference of the Nevada Geographic Information Society, Reno, NV. April 21-23, 1999.
  39. Nambisan, Shashi S. Organized an outreach forum titled *InterChanges: Focus on Transportation Research and Education*. Attendees included elected officials, members of the University's Board of Regents, transportation professionals from the private and public sectors. Associate Provost for Research/ College of Engineering, UNLV. Oct 29, 1998. (Invited by the Associate Provost for Research, UNLV).
  40. K. W. Ackeret and Shashi S. Nambisan. *Influence of Driver Behavior on Saturation Flow Rates at Signalized Intersections*. ITE District 6 Annual Meeting. San Jose, CA. July 5-8, 1998.
  41. S. S. Pulugurtha and Shashi S. Nambisan. *Estimating Time Dependent Origin-Destination Trip Tables for Intelligent Transportation System Applications*. Third Annual ITS Nevada Chapter Conference, Las Vegas, NV March 30-31, 1998.
  42. N. Srinivasan and Shashi S. Nambisan. *Evaluating Accessibility of Transportation Networks*. Eighth Annual Nevada GIS Conference Las Vegas, NV. January 15-16, 1998.
  43. R. T. Romer and Shashi S. Nambisan. *Analysis of Pedestrian Flow at Intersections*. Building a Safer Community - A Conference Sponsored by the Safe Community Partnership, Las Vegas, NV. September 23, 1997.
  44. Nambisan, Shashi S. and S. S. Pulugurtha. *A Conceptual Framework for Real-Time Traveler Information Systems*. Annual Fall Transportation Conference, Sponsored by the Nevada Chapters of ASCE & ITE and Transportation Research Center, UNLV, Las Vegas, NV. September 19-20, 1997.
  45. Nanda Srinivasan and Shashi S. Nambisan. *On Accessibility of Urban Transportation Networks*. Annual Fall Transportation Conference, Sponsored by the Nevada Chapters of ASCE & ITE and Transportation Research Center, UNLV, Las Vegas, NV. September 19-20, 1997.
  46. Nambisan, Shashi S. and S. S. Pulugurtha. *Estimation of Temporal Variations in Link Flows in Urban Areas*. 2<sup>nd</sup> Annual Public/Private ITS Conference, ITS Nevada Chapter, Las Vegas, NV. July 1997.
  47. Diane I. Morse and Shashi S. Nambisan. *Development of a GIS-Based Roadway Management System*. Seventh Annual Nevada GIS Conference, Reno, NV. Jan 22-24, 1997.
  48. Nambisan, Shashi S. *Successful Road to Promotion and Tenure in Academia - Focus Session for New Engineering Educators*. Session Organizer and Moderator, American Society for Engineering Education, Pacific Southwest Section, Annual Conference, San Jose, CA, April 4-5, 1996.
  49. Nambisan, Shashi S. *GIS Applications in Transportation Engineering*. Luncheon Speaker, ITE Nevada Chapter, Las Vegas, NV. January 18, 1996. (Invited Presentation)
  50. J. P. Rasas and Shashi S. Nambisan. *Use of GIS to Allocate Census Data to Traffic Analysis Zones*. Sixth Annual Nevada GIS Conference, Las Vegas, NV. Dec 13-15, 1995.
  51. Nambisan, Shashi S. and J. J. Jensen. *Use of Emergency Response Vehicle Data and GIS for Transportation Planning Applications*. Sixth Annual Nevada GIS Conference, Las Vegas, NV. Dec 13-15, 1995.
  52. E.M. Parentela and Shashi S. Nambisan. *Development of GIS-Based Transportation Impact Monitoring Database*. Fifth Annual Nevada State GIS Conference, Sparks, NV. Dec 12-14, 1994.
  53. K. Madhavapeddi and Shashi S. Nambisan. *GIS Applications to Support Risk Analysis for Radioactive Materials Transportation*. Fifth Annual Nevada State GIS Conference, Sparks, NV. Dec 12-14, 1994.

54. J. P. Rasas and Shashi S. Nambisan. *GIS for Resource Management at the Lake Mead National Recreation Area*. Fifth Annual Nevada State GIS Conference, Sparks, NV. Dec 12-14, 1994.
55. Nambisan, Shashi S. and K. Madhavapeddi. *Risk Analysis for Spent Nuclear Fuel Transportation*. Annual Fall Transportation Conference, Sponsored by the Nevada Chapters of ASCE & ITE, and Nevada Technology Transfer Center, Las Vegas, NV. Nov 12, 1995.
56. J. J. Jensen and Shashi S. Nambisan. *Model Linkages for Air Quality*. Annual Fall Transportation Conference, Sponsored by the Nevada Chapters of ASCE & ITE, and Nevada Technology Transfer Center, Las Vegas, NV. Nov 12, 1995.
57. Nambisan, Shashi S. *GIS Applications in Transportation Research*. Missouri Valley ITE - Iowa Traffic Control and Safety Association Annual Meeting, Des Moines, IA. November 10-11, 1994. (Invited Presentation)
58. Nambisan, Shashi S. and K. Madhavapeddi. *Transportation Risk Assessment: Highway and Rail Transportation of Radioactive Materials through Lincoln County*. Joint City/County Impact Alleviation Committee, Caliente City/Lincoln County, Caliente, NV. September 15, 1994. (Invited Presentation)
59. Nambisan, Shashi S. and E.M. Parentela. *Emergency Preparedness Analysis using GIS*. Utilizing GIS Data in Southern Nevada, GIS Database Workshop, Sponsored by Clark County GIS Management Office, Las Vegas, NV. August 23-24, 1994.
60. Nambisan, Shashi S. *Transportation Issues in Southern Nevada*. UNLV Foundation's Annual Campus Research Highlights Reception, February 10, 1994. (Invited Presentation).
61. Nambisan, Shashi S., K. Madhavapeddi and S.T. Lim. *Risk Analysis for Spent Nuclear Fuel Transportation By Rail Through Lincoln County*. Meeting of the State, Tribal and Local Governments Coordinating Group, Las Vegas, NV. Jan 18, 1994. (Invited Presentation).
62. Nambisan, Shashi S. *New Engineering Faculty Workshop: Time Management and Proposal Writing*. Session Organizer and Moderator, PSW Section Annual Conference, American Society for Engineering Education, Northern Arizona University, Flagstaff, AZ. October 8, 1993.
63. Nambisan, Shashi S. *Hazardous Materials Transportation*. Session Moderator, Institute of Transportation Engineers District 6 Annual Meeting, Las Vegas, NV. July 11-14, 1993.
64. Nambisan, Shashi S. *GIS Application in Alignment Design for Transportation Facilities*. 3rd Annual Nevada State Conference, Sparks NV. December 14, 1992.
65. Nambisan, Shashi S. *New Engineering Educators Workshop: Avoiding Pitfalls in the Tenure and Promotion Process*. Session Organizer and Moderator, PSW Section Annual Conference, American Society for Engineering Education, Loyola Marymount University/ Hughes Aircraft Company, Los Angeles, California, October 16, 1992.
66. Nambisan, Shashi S. *GIS Application for Transportation and Air Quality Analysis*. 2nd Annual Nevada State Conference, Las Vegas, NV. December 17, 1991.
67. Nambisan, Shashi S. *New Faculty Luncheon and Workshop*. Session Organizer and Moderator, PSW Section Annual Conference, American Society for Engineering Education, University of California, Berkeley, California, October 24, 1991.
68. Nambisan, Shashi S. and R. R. Souleyrette. *GIS Applications for State and Regional Transportation Studies*. 1st Annual Nevada State GIS Conference 1990 - Mapping, Modeling and Managing Nevada's Future. Carson City, NV. December 13-14, 1990.
69. Nambisan, Shashi S. *A Study of the Effectiveness of Bus Turnouts*. Institute of Transportation Engineers District 6 Annual Meeting, Boise, Idaho. July 1990.

#### ***Invited University Presentations***

1. Nambisan, Shashi S. *Preparing for Successful Careers: Looking Back to See the Future?* Civil Engineering Association, Indian Institute of Technology, Madras, Chennai, India. March 20, 2014.
2. Nambisan, Shashi S. *A Macro-Level Exploratory Analysis of Large Truck Crashes in the US*. Department of Civil Engineering, Indian Institute of Technology, Madras, India. March 20, 2014.
3. Nambisan, Shashi S. *Strategies to Enhance Pedestrian Safety*. Department of Civil Engineering, Anna University, Chennai, India. March 19, 2014.

4. Nambisan, Shashi S. *Some Approaches to Enhance Road Safety: Beyond Engineering Based Strategies*. Institute of Transportation Studies, University of California, Berkeley, CA, Feb 28, 2014.
5. S. Nambisan and M. Ozen, *An Exploratory Investigation of Large Truck Crashes in the US*, Indian Institute of Technology, Bombay (Mumbai), India. July 25, 2013.
6. Nambisan, Shashi S. *Preparing for and Developing Successful Careers*. Institute of Transportation Engineers Student Chapter, University of Kansas, Lawrence, KS, November 2, 2012.
7. Nambisan, Shashi S. *Entrepreneurship in Transportation Education and Research*. Department of Civil, Environmental, and Architectural Engr, University of Kansas, Lawrence, KS, November 1, 2012.
8. Nambisan, Shashi S. *Vehicle Operational Characteristics on Horizontal Curves and Safety Implications*. Sardar Vallabhai National Institute of Technology, Surat, India. July 26, 2012.
9. Nambisan, Shashi S. *Research and Outreach Efforts at InTrans + Vehicle Operations on Horizontal Curves*. Indian Institute of Technology, Bombay (Mumbai), India. July 23, 2012.
10. Rema Nilakanta, Shashi Nambisan, and Giada Biasetti. *Go! + ¡Vamos!: E-zine for Teens on Global Transportation Perspectives*, U.S. Department of Education Undergraduate International Studies and Foreign Languages Program Workshop, Department of World Languages and Cultures, Iowa State University, Ames, IA. Dec 2, 2011.
11. Nambisan, Shashi S. *On Career Development*. Transportation Students Association, Iowa State University, Ames, Iowa. December 1, 2008.
12. Nambisan, Shashi S. *Entrepreneurship in Transportation Education and Research*. Transportation Students Association, Iowa State University, Ames, Iowa. February 12, 2007.
13. Nambisan, Shashi S. *Information Systems Applications for Infrastructure Management*. Department of Civil Engineering, Indian Institute of Technology, Madras (Chennai), India. January 4, 2006.
14. Nambisan, Shashi S. *Emergency Management, Risk Analysis and Safety for Hazardous Materials Transport*. Department of Civil and Environmental Engineering & Center for Transportation Research and Education, Iowa State University, Ames, IA. Nov 5, 2004.
15. Nambisan, Shashi S. *Tools for Transportation Systems Management + Strategies to Enhance Pedestrian Safety*, Department of Civil and Environmental Engineering, The University of Alabama, Tuscaloosa, AL April 26, 2004.
16. Nambisan, Shashi S. *GIS and Remote Sensing Applications for Transportation Infrastructure Management*. Department of Civil Engineering, National University of Singapore, Nov 11, 2002.
17. Nambisan, Shashi S. *GIS and Remote Sensing Applications for Transportation Infrastructure Management*. Dept of Civil Engineering, Nanyang Technical University, Singapore, Nov 12, 2002.
18. Nambisan, Shashi S, and Reginald R. Souleyrette. *GIS and Remote Sensing Applications for Transportation Infrastructure Management*. Department of Civil Engineering, Indian Institute of Technology, Madras (Chennai), India. November 6, 2002.
19. Noronha, Val, Reginald R. Souleyrette, and Nambisan, Shashi S. *GIS and Remote Sensing Applications for Transportation Infrastructure Management*. Department of Civil Engineering, Indian Institute of Technology, Mumbai, India. October 29, 2002.
20. Nambisan, Shashi S. *An Innovative Tool for Managing Pavement markers and Markings & Other Research Efforts at the University of Nevada, Las Vegas*. Department of Civil Engineering, Indian Institute of Technology, Madras (Chennai), India. July 10, 2000.
21. Nambisan, Shashi S. *Estimation of Temporal Variations in Origin-Destination Trip Tables in Urban Areas*. Transportation Science Seminar, Institute of Transportation Studies, University of California, Berkeley, CA. April 9, 1999.
22. Nambisan, Shashi S. *Evaluation of Left-turn Factors at Signalized Intersections*. Department of Civil and Environmental Engineering. Virginia Tech, Blacksburg, VA. February 23, 1999.
23. Nambisan, Shashi S. *GIS Applications in Transportation Planning*. Transportation Scholars' Seminar, Center for Transportation Research and Education, Iowa State University, Ames, IA. March 29, 1996.
24. Nambisan, Shashi S. *GIS Applications in Transportation*. Department of Civil Engineering, University of Nebraska, Lincoln/Omaha, NE. February 27, 1996.

25. Nambisan, Shashi S. and R. R. Souleyrette. *Applications of Geographic Information Systems to the Transport of Hazardous Wastes*. Transportation Science Seminar, Institute of Transportation Studies, University of California, Berkeley, October 24, 1991.
26. Nambisan, Shashi S. and R. R. Souleyrette. *Applications of Geographic Information Systems to the Transport of Hazardous Wastes*. Center for Advanced Transportation Research, Arizona State University, September 24, 1991.
27. Nambisan, Shashi S. *Some Aspects of Aviation Safety*. Industrial Liaison Program Conference, College of Engineering, University of California, Berkeley. March 15, 1989.

## GRANTS, GIFTS, AND SPONSORED RESEARCH PROJECTS

### Summary

Total value of awards (grants, contract, and agreements) ~ \$20 Million (approximate)

1. Big Data for Safety Monitoring, Assessment, and Improvement, June 2014 to July 2015. (PI: \$32,998; with an additional \$33,519 in cost-share). Southeastern Transportation Center, University of Tennessee, Knoxville, TN part of a grant from the US Department of Transportation.
2. Development of Railroad Highway Grade Crossing Closure Rating Formula, Iowa DOT, July 2013 to September 2014. (PI: \$75,000). Transferred to Zach Hans when I left ISU.
3. Development of Railroad Highway Grade Crossing Closure Rating Formula, Mid-America Transportation Center, University of Nebraska, Lincoln, July 2013 to September 2014. (PI: \$59,995). Transferred to Zach Hans when I left ISU.
4. Go!: Reaching out to Teens about Transportation, Mid-America Transportation Center, University of Nebraska, Lincoln, July 2013 to June 2014. (PI: \$62,700, + in-kind match of \$18,712). Transferred to Keith Knapp when I left ISU.
5. An Evaluation of the Iowa State Transit Assistance Funding Program Formula, Iowa DOT, June 2013 to December 2014. (PI: \$10,060).
6. Iowa DOT Engineering Intern Development and Management Program – Phase 2, Iowa DOT, Oct 2012 to February 2013. (PI: \$116,180; Jim Alleman, co-PI). (50 percent responsibility).
7. Iowa DOT Engineering Intern Development and Management Program – Phase 1, Iowa DOT, Feb 2012 to September 2012. (PI: \$836,249; Jim Alleman, co-PI). (50 percent responsibility).
8. Administration and Management Agreement for the Institute for Transportation, Iowa DOT, July 2012 to June 2013. (PI: Approximately \$1.13 M; with various co-PIs). (12.5 percent responsibility).
9. Go!: Reaching out to Teens about Educational Opportunities in Transportation, Mid-America Transportation Center - Iowa State University Programs and Activities, US Department of Transportation – Sub-award from the University of Nebraska, Lincoln, May 2012 – December 2013. (co-PI: PI- Nadia Gkritza; Approximately \$62,740). (100 percent responsibility).
10. Mid-Continent Transportation Research Symposium, Mid-America Transportation Center - Iowa State University Programs and Activities, US Department of Transportation – Sub-award from the University of Nebraska, Lincoln, May 2012 – December 2013. (co-PI: PI- Nadia Gkritza; Approximately \$43,000). (75 percent responsibility).
11. Administration and Management Agreement for the Institute for Transportation, Iowa DOT, July 2011 to June 2012. (PI: Approximately \$1.13 M; with various co-PIs). (50 percent responsibility).
12. Review of Breath Alcohol Ignition Interlock Devices: Policy and Implementation Implications, Iowa DOT. May 2011 to November 2011. (PI: Dan McGehee, University of Iowa; Co-PIs: Corinne Peek-Asa, University of Iowa and Shashi Nambisan. \$55,800) (35 percent responsibility).
13. Dwight D. Eisenhower Graduate Student Fellowship for Bennett Stone, Federal Highway Administration, US DOT, Washington, D.C., Sept 2010 to September 2013. (PI: \$47,542). (Advisor).
14. Administration and Management Agreement for the Institute for Transportation, Iowa DOT, July 2010 to June 2011. (PI: Approximately \$1.13 M; with various co-PIs). (50 percent responsibility).
15. Dwight D. Eisenhower Graduate Student Fellowship for Stewart McCoy, Federal Highway Administration, US DOT, Washington, D.C., July 2010 to Aug 2010. (PI: \$25,000). (Advisor).

16. Administration and Management Agreement for the Institute for Transportation, Iowa DOT, July 2009 to June 2010. (PI: Approximately \$1.13 M; with various co-PIs). (50 percent responsibility).
17. Lane Departure Safety Countermeasures: Strategic Action Plan for the Iowa Department of Transportation. Iowa DOT. March 1, 2009 to March 31, 2011. (PI; Co-PI: Shauna Hallmark. \$43,703) (50 percent responsibility).
18. Go!: Using an online magazine to convey real-world math and science concepts related to transportation. Iowa Mathematics & Science Education Partnership, Cedar Falls, Iowa. June 2009 to May 2010. (PI; Co-PI: Michele Regenold; \$48,397) (10 percent responsibility)
19. Dwight D. Eisenhower Graduate Student Fellowship for Bennett Stone, Federal Highway Administration, US DOT, Washington, D.C., Sept 2008 to Aug 2010. (PI: \$41,159). (*Advisor*).
20. Examination of Late Merge Lane Closures, Iowa DOT. July 2008 to March 31, 2009. (PI; Co-PIs: Tom McDonald and Bob Sperry; \$25,485) (33.3 percent responsibility)
21. Evaluation of Iowa's Driver Improvement Program, Iowa DOT. August 2008 to September 2009. (Co-PI; PI – Nadia Gkritza; \$60,000) (25 percent responsibility)
22. Administration and Management Agreement for the Center for Transportation Research and Education, Iowa DOT, 2008-2009. July 2008 to June 2009. (PI: Approximately \$1.13 M; with various co-PIs). (50 percent responsibility).
23. Analysis of Safety Benefits of Shielding of Bridge Piers, Iowa DOT Office of Traffic and Safety. May 2008 to February 2009 (Co-PI; PI: Tom Maze; co-PI: Tom McDonald; \$26,841) (33.3 percent responsibility)
24. Administration and Management Agreement for the Center for Transportation Research and Education, Iowa DOT, 2007-2008. July 2007 to June 2008. (PI: Approximately \$1.02 M; with various co-PIs). (50 percent responsibility).
25. Administration and Management Agreement for the Center for Transportation Research and Education, Iowa DOT, 2006-2007. Feb 2007 to June 2007 (PI: Approximately \$400,000; with various co-PIs).
26. Development of a Safety Analysis System. Sponsored by the Regional Transportation Commission of Southern Nevada, Las Vegas, Nevada. January 2007 to September 2008. (PI: \$150,023; Co-PIs: V. Vasudevan, H. Teng). (90 percent responsibility).
27. AeroQuest Aerospace & Air Trade Show Feasibility Study: Airport / Exposition Site & Conceptual Development. Sponsored by the U.S. Department of Commerce. October 2006 to September 2007. (PI: \$117,835; Co-PI: M. Kaseko).
28. Impaired Driving Public Service Campaign & PACE Program. Sponsored by the Nevada Office of Traffic Safety, Department of Motor Vehicles and Public Safety, Carson City, Nevada. October 2006 - September 2007. (PI: \$56,435; Co- PI: Erin Breen).
29. Enhancing Transportation Safety, Efficiency, and Sustainability: An University Transportation Center. Sponsored by the U.S. Department of Transportation. Research and Innovative Programs Administration, Washington, D.C. August 2005 – September 2009. (PI: \$2 Million approximately; + Matching Funds: \$2 Million from RTC of Southern Nevada, \$400,000 from UNLV, additional funds yet to be determined from the Nevada Department of Transportation and additional funds yet to be determined from the University of Nevada School of Medicine, Reno / Las Vegas, NV): Total Cash matching funds of over \$4.5 million).
30. Seat Belt Usage Surveys FY 2006-2007. Sponsored by Nevada Office of Traffic Safety, Carson City, Nevada. October 2006 – September 2007. (PI: \$44,000; Co-PI: Vinod Vasudevan).
31. Center for Safety Research and Outreach (CSRO) - FY 2006-2007. Sponsored by the Nevada Office of Traffic Safety, Department of Motor Vehicles and Public Safety, Carson City, Nevada. October 2006 - September 2007. (PI: \$158,125; Co- PI: Erin Breen).
32. Intersection Infrastructure Management System. Sponsored by Clark County Department of Public Works, Las Vegas, Nevada. February 2006 – December 2006. (PI: \$117,059; Co-PI: Dangeti).
33. Intersection Infrastructure Management System. Sponsored by the Applied Research Initiatives Program, UNLV. February 2006 – December 2006. (PI: \$50,059; Co-PI: Dangeti).

34. Analysis of Baseline Rail and Highway Transportation Risks in Lincoln County, Nevada to Support Assessment of Yucca Mountain Repository System Impacts. Sponsored by Lincoln County, NV. January 2006 - October 2006. (PI: \$36,816).
35. Traffic Safety Device Usage Surveys FY 2005. Sponsored by Nevada Office of Traffic Safety, Carson City, Nevada. October 2005 – September 2006. (PI: \$84,845; Co-PI: Vinod Vasudevan).
36. Clark County Alternate Modes Program (CCAMP). Sponsored by Nevada Office of Traffic Safety, Carson City, Nevada. October 2005 – Sept 2006. (PI: \$95,000; Co-PI: Maggie Saunders).
37. Southern Nevada Injury Prevention Program (SNIPP) - FY 2005. Sponsored by the Nevada Office of Traffic Safety, Department of Motor Vehicles and Public Safety, Carson City, Nevada. October 2005 - September 2006. (PI: \$253,106; Co- PI: Erin Breen).
38. An Evaluation of the Effectiveness of Continuous Shoulder Rumble Strips in Reducing Single Vehicle Run-off the Roadway Crashes. Sponsored by Nevada Department of Transportation, Carson City, Nevada. April 2005 – December 2005. (PI: \$97,317; Initiated by S. Pulugurtha).
39. Seat Belt Use Survey: FY 2005. Sponsored by Nevada Office of Traffic Safety, Carson City, Nevada. January 2005 – September 2005. (PI: \$37,317; Co-PI: Vinod Vasudevan).
40. Traffic Safety Device Usage Surveys FY 2005. Sponsored by Nevada Office of Traffic Safety, Carson City, Nevada. December 2004 – September 2005. (PI: \$49,326; Co-PI: Vinod Vasudevan).
41. Clark County Alternate Modes Program (CCAMP). Sponsored by Nevada Office of Traffic Safety, Carson City, Nevada. October 2004 – Sept 2005. (PI: \$89,995; Co-PI: Maggie Saunders).
42. Southern Nevada Injury Prevention Program (SNIPP) - FY 2004. Sponsored by the Nevada Office of Traffic Safety, Department of Motor Vehicles and Public Safety, Carson City, Nevada. October 2004 - September 2005. (PI: \$125,249; Co- PI: Erin Breen).
43. Transportation Safety and Risk Analyses for Hazardous and Radioactive Material Transportation. Sponsored by U.S. Department of Energy, Office of Science through the UNLV Research Foundation. Washington D.C. August 2004 – October 2005. (PI: \$125,000; Co-PI: Pulugurtha).
44. Pedestrian Safety Enforcement Operations in Clark County. Sponsored by the Nevada Office of Traffic Safety, Carson City, Nevada. February 2004 - Sept 2004. (PI: \$40,233; Co- PI: Erin Breen).
45. No Exceptions, No Excuses (May 2004 Campaign) Seat Belt Usage Survey. Sponsored by Nevada Office of Traffic Safety, Carson City, NV. June 2004 – Sept 2004. (PI: \$20,000; Co-PI: Vasudevan)
46. Analysis of Pedestrian Safety in Clark County, Nevada. Sponsored by Regional Transportation Commission of Southern Nevada, Las Vegas, Nevada. July 2004 – December 2005. (PI: \$124,000; Co-PI: Pulugurtha).
47. Internet Mapping Applications and Data Updates. Sponsored by Clark County Department of Public Works, Las Vegas, Nevada. December 2003 – June 2005. (PI: \$82,315; Co-PI: Pulugurtha)
48. Internet Mapping Server Maintenance. Sponsored by Clark County Department of Public Works, Las Vegas, Nevada. December 2003 – June 2005. (PI: \$69,520; Co-PI: Pulugurtha)
49. No Exceptions No Excuses Seat Belt Use Evaluation. Sponsored by Nevada Office of Traffic Safety, Carson City, Nevada. Dec 2003 - February 2004. (PI: \$15,000; Co-PI: Vinod Vasudevan).
50. Traffic Safety Device Usage Surveys FY 2004. Sponsored by Nevada Office of Traffic Safety, Carson City, Nevada. October 2003 – September 2004. (PI: \$75,989; Co-PI: Vinod Vasudevan).
51. Clark County Alternate Modes Program (CCAMP). Sponsored by Nevada Office of Traffic Safety, Carson City, Nevada. October 2003 - September 2004. (PI: \$120,208; Co-PI: Maggie Saunders)
52. Southern Nevada Injury Prevention Program (SNIPP) - FY 2004. Sponsored by the Nevada Office of Traffic Safety, Department of Motor Vehicles and Public Safety, Carson City, Nevada. October 2003 - September 2004. (PI: \$237,700; Co- PI: Erin Breen).
53. No Exceptions No Excuses. Sponsored by Nevada Office of Traffic Safety, Carson City, Nevada. October 2003 - September 2003. (PI: \$35,000; Co-PI: Walt Vodrazka, Jr.).
54. Evaluation of Pedestrian Countdown Signals. Sponsored by California State Automobile Association, San Francisco, California. March 2003 - December 2004. (PI: \$60,000)
55. Development of Criteria to Identify High Crash Locations in Nevada. Sponsored by Nevada Dept of Transportation, Carson City, NV. Feb 2003 - Aug 2004. (PI: \$92,409; Co-PI: Pulugurtha)



56. Traffic Safety Device Usage Surveys FY 2003. Sponsored by Nevada Office of Traffic Safety, Carson City, Nevada. January 2003 – September 2003. (PI: \$75,000; Co-PI: Walt Vodrazka, Jr.).
57. Pedestrian Safety Enforcement. Sponsored by Nevada Office of Traffic Safety, Carson City, Nevada. January 2003 – September 2003. (PI: \$46,040; Co-PI: Walt Vodrazka, Jr.).
58. Web-based Wireless PDA in the Implementation of a Work Order System. Sponsored by Clark Co. Dept. of Public Works, Las Vegas, NV. Jan. 2003 – June 2004. (PI: \$102,058, Co-PI: Pulugurtha)
59. Web-based Wireless PDA in the Implementation of a Work Order System. Sponsored by Applied Research Initiatives Program, UNLV. January 2003 – June 2004. (PI: \$56,725, Co-PI: Pulugurtha)
60. Injury Prevention and Transportation Safety Program FY 2003. Sponsored by the Nevada Office of Traffic Safety, Carson City, Nevada. October 2002 – Sept 2003. (PI: \$139,678; Co-PI: Erin Breen)
61. Pedestrian and Bicycle Safety Program FY 2003. Sponsored by the Nevada Office of Traffic Safety, Carson City, Nevada. October 2002 – Sept 2003. (PI: \$117,010; Co-PI: Maggie Saunders)
62. Alcohol Education for Greek Week at University of Nevada Las Vegas. Sponsored by Nevada Office of Traffic Safety. April 2002. (PI: \$9,430; Co-PI: Erin Breen)
63. Internet Mapping Applications. Sponsored by Clark County Department of Public Works, Las Vegas, Nevada. March 2003 – December 2003. (PI: \$108,533; Co-PI: Pulugurtha)
64. Development and Maintenance of Websites for Unpaved Roads. Sponsored by Clark County Dept of Public Works, Las Vegas, Nevada. March 2002 – Dec 2003. (PI: \$84,805; Co-PI: Pulugurtha)
65. Upgrade and Maintenance of a Web Server. Sponsored by Clark Co. Dept. of Public Works, Las Vegas, NV. March 2002 – Dec 2003. (PI: \$46,026; Co-PI: Pulugurtha)
66. Development of a Congestion Management System for Clark County. Sponsored Orth-Rodgers & Associates, Inc., Las Vegas, NV. February 2002 to June 2003. (PI: \$40,000; co-PI: Pulugurtha).
67. Pedestrian Safety Enforcement Operations in Clark County. Sponsored by the Office of Traffic Safety, Carson City, Nevada. February 2002 - September 2004. (PI: \$137,327; Co- PI: Erin Breen).
68. Pedestrian Safety Study: 2001-2002. Sponsored by the Regional Transportation Commission of Southern Nevada, Las Vegas, Nevada. February 2002 to December 2002. (PI: \$32,159).
69. Traffic Safety Device Usage Surveys: Child Safety Seat, Seat Belt, and Bicycle Helmet. Sponsored by the Office of Traffic Safety, Department of Motor Vehicles and Public Safety, Carson City, Nevada. October 2001 - September 2004. (PI: \$245,352; Co-PI: Vodrazka, Jr).
70. Las Vegas Metropolitan Area Transit Mode Option Study. Sponsored by Parsons, Las Vegas, NV. November 2001 to July 2002. (PI: \$27,258; Co-PI: Pulugurtha).
71. Pedestrian Safety Engineering and Intelligent Transportation System-Based Countermeasures Program for Reducing Pedestrian Fatalities, Injuries, Conflicts, and Other Surrogate. Sponsored by the U.S. Department of Transportation, Federal Highway Administration, Washington, D.C. (PI: \$1,214,975). October 2001 to March 2008.
72. Pedestrian Safety Engineering and Intelligent Transportation System-Based Countermeasures Program for Reducing Pedestrian Fatalities, Injuries, Conflicts, and Other Surrogate Measures – Matching Funds. Sponsored by the Nevada Dept of Transportation, Clark County, City of Las Vegas, and Regional Transportation Commission. (PI: \$251,759). October 2001 to July 2007.
73. Pedestrian Safety Engineering and Intelligent Transportation System-Based Countermeasures Program for Reducing Pedestrian Fatalities, Injuries, Conflicts, and Other Surrogate Measures – Matching Funds. Sponsored by the Nevada Office of Traffic Safety, Carson City, Nevada (PI: \$50,055). October 2001 to July 2007.
74. Safe Community Partnership - FY 2002. Sponsored by the Office of Traffic Safety, Carson City, Nevada. September 2001 - September 2002. (PI: \$139,968; Co- PI: Erin Breen).
75. Development of a Website for Unpaved Roads. Sponsored by Clark County Department of Public Works, Las Vegas, Nevada. May 2001 to April 2002. (PI: \$24,039; co-PI: Srinivas Pulugurtha).
76. Web Server Maintenance and Upgrade. Sponsored by Clark County Department of Public Works, Las Vegas, Nevada. April 2001 to March 2002. (PI: \$24,834; co-PI: Srinivas Pulugurtha).
77. Update Internet Mapping Project Data. Sponsored by Clark County Department of Public Works, Las Vegas, Nevada. April 2001 to March 2002. (PI: \$24,866; co-PI: Srinivas Pulugurtha).

78. Conversion of Patent Easements. Sponsored by Clark County Department of Public Works, Las Vegas, Nevada. April 2001 to September 2001. (PI: \$24,954; co-PI: Srinivas Pulugurtha).
79. Development of a Roadway Incident Detection System and Database for the Las Vegas Freeway and Arterial System of Transportation (FAST). Sponsored by UNLV Applied Research Initiatives Program, Las Vegas, NV. May 2001 to April 2002. (PI: \$59,891; Co-PI: Mohamed Kaseko).
80. Development of a Roadway Incident Detection System and Database for the Las Vegas Freeway and Arterial System of Transportation (FAST). Sponsored by Kimley Horn and Associates, Inc., Las Vegas, NV. May 2001 to April 2002. (PI: \$59,902; Co-PI: Mohamed Kaseko).
81. Pedestrian and Bicycle Safety Program for Clark County. Sponsored by the Office of Traffic Safety, Carson City, NV. March 2001 to Sept 2003. (PI: \$281,552; Co- PI: Saunders, Breen).
82. Evaluation of Analysis and Simulation of Traffic Operations Software. Sponsored by the NV Dept of Transportation, Carson City, NV. March 2001 - June 2002. (PI: Kaseko: \$83,529; Co-PI).
83. Child Safety Seat Use, Seat Belt Use and Bicycle Helmet Use Survey. Sponsored by the Office of Traffic Safety, Carson City, Nevada. January - September 2001. (PI: \$60,326; Co-PI: Vodrazka, Jr).
84. Development of Urban Transportation Congestion Management and Mitigation Measures. Sponsored by the Regional Transportation Commission of Southern Nevada, Las Vegas, Nevada. November 2000 to March 2001. (PI \$35,238).
85. Safe Community Partnership: 2000-2001. Sponsored by the Office of Traffic Safety, Carson City, Nevada. September 2000 - September 2001. (PI: 105,000; Co- PI: Erin Breen).
86. Underage DUI and Traffic Safety: A Research and Education Program. UNLV Applied Research Initiatives Program, Las Vegas, NV. July 2000 - Sept 2001. (PI: \$48,655; Co- PI: Erin Breen).
87. Underage DUI and Traffic Safety: A Research and Education Program - Phase I. Nevada Juvenile Justice Commission, Carson City, NV. June 1, 2000 to Sept, 2001. (PI: \$140,427; Co- PI: Breen).
88. Analyses of Spent Nuclear Fuel and High Level Radioactive Waste Transportation by Rail. Nevada Agency for Nuclear Project, Carson, City, NV. July 1, 2000 to January 31, 2000. (PI: \$50,000).
89. Underage DUI and Traffic Safety: A Research and Education Program - Phase II. Nevada Juvenile Justice Comm, Carson City, NV. July 1, 2000 to Sept 30, 2001. (PI: \$246,573; Co- PI: Breen).
90. Analyses of Spent Nuclear Fuel and High Level Radioactive Waste Transportation by Highway. NV Agency for Nuclear Projects, Carson, City, NV. April 1, 2000 to July 31, 2000. (PI: \$50,000).
91. Joining Forces- A multi-jurisdictional traffic Law Enforcement Program. Sponsored by the Office of Traffic Safety, Carson City, Nevada. Feb 2000 - Sept 2001. (PI: 17,820; Co- PI: Erin Breen).
92. Engineering Project Management System for Clark County Department of Public Works. Sponsored by the Applied Research Initiatives Program, University of Nevada, Las Vegas, Nevada. February 2000 to June 2001. (PI: \$34,974; co-PI: Srinivas Pulugurtha).
93. Spatial Index System for Project Web Management. Sponsored by Clark County Dept of Public Works, Las Vegas, NV. February 2000 to January 2001. (PI: \$25,000; co-PI: Srinivas Pulugurtha).
94. Internet Mapping/ Applications System Maintenance and Management. Sponsored by Clark County Department of Public Works, Las Vegas, Nevada. February 2000 to January 2001. (PI: \$13,000)
95. Internet Project Web Management System. Sponsored by Holman's of Nevada, Inc., Las Vegas, Nevada. February to September 2001. (PI: \$14,985; Co-PI: Srinivas Pulugurtha).
96. Child Safety Seat Use Survey. Sponsored by the Office of Traffic Safety, Carson City, Nevada. February - September 2000. (PI: \$36,000; Co-PI: Walk Vodrazka, Jr.).
97. Stand Tall, Don't Fall: United Against Underage Drinking. Sponsored by the Nevada State Juvenile Justice Commission. Carson City, Nevada. Nov 1999 to May 2000. (PI: \$32,427; Co-PI: Breen)
98. Grant for Research on Transportation Risk Analysis. Grant from the TRW Foundation, Cleveland, OH. December 1999. (PI - \$30,000; Co-PI: Walt Vodrazka, Jr.).
99. Facilities Management System for UNLV. Funded by the Planning Initiatives Awards Program, University of Nevada, Las Vegas, NV. July 1999 to June 2000, (PI: \$29,649).
100. Child Safety Seat Use Survey. Sponsored by the Office of Traffic Safety, Carson City, Nevada. June 1999 - September 1999. (PI: \$24,720).
101. Risk Assessment for Nuclear Waste Transportation through Lincoln County. Sponsored by Lincoln County, NV. April 1999 - September 1999. (PI: \$15,000).

102. Development of Internet Applications for Transportation System Management. Sponsored by Clark County Dept of Public Works. Nov 1998 - Oct 1999. (PI: \$35,594).
103. Development of Internet Applications for Transportation System Management. Sponsored by Applied Research Initiatives Program of UNLV. November 1998 - October 1999. (PI: \$29,233).
104. Grant for Enhancing Transportation Education and Research Programs at UNLV. Grant from the TRW Foundation, Cleveland, OH. September 1998. (PI - \$30,000).
105. Geographic Information System Software Grant. Grant from Autodesk Inc., San Rafael, CA. Jan 1998. (PI: \$76,674 - value of software)
106. Evaluation of Pavement Marking Materials Performance and Specifications for Clark County Roads. Sponsored by the Clark County Regional Transportation Commission, Las Vegas, NV. April 1998 - June 2000. (PI: Mohamed Kaseko: \$160,259; Co-PI).
107. Evaluation of Pavement Marking Materials Performance and Specifications for Clark County Roads. Sponsored by Applied Research Initiatives Program, University of Nevada, Las Vegas, NV. April 1998 - June 2000. (PI: Mohamed Kaseko: \$80,082; Co-PI).
108. Pedestrian Traffic Flow Analysis for Barbary Coast. Sponsored by Barbary Coast, Las Vegas, NV. April - June 1998. (PI: \$4,924).
109. Development of GPS Capabilities for Professional Practice, Research and Education. Sponsored by Clark County Department of Public Works, Las Vegas, NV. February 1998 - June 1999. (PI: \$96,500; Co-PI: Barbara Luke.)
110. Development of GPS Capabilities for Professional Practice, Research and Education. Sponsored by the Applied Research Initiatives Program, University of Nevada, Las Vegas, NV. February 1998 - June 1999. (PI: \$96,448; Co-PI: Barbara Luke.)
111. An Evaluation of Maintenance and Rehabilitation Costs of Road Networks in Counties and Incorporated Municipalities in Nevada. Sponsored by the Nevada State Legislative Counsel Bureau, Carson City, NV. November 1997 - April 1999. (PI: \$220,000; Co-PI: Ed Neumann.)
112. An Assessment of Pavement Marking Materials Performance Specifications for Clark County Roads. Sponsored by the Clark County Regional Transportation Commission, Las Vegas, NV. October 1997 - January 1998. (PI: Mohamed Kaseko; \$19,734; Co-PI: Shashi Nambisan).
113. City of Las Vegas Safe Route to School Program - 1997. Sponsored by the City of Las Vegas, Nevada. NV. August 1997 - Oct 1997. (PI: \$19,366; Co-PI: Justin Rasas).
114. Safe Route to School Program - 1997 Update. Sponsored by Clark County Department of Public Works, Las Vegas, NV. June 1997 - Sept 1997. (PI: \$23,932; Co-PI: Justin Rasas).
115. Equipment for Enhancing Transportation Education and Research Programs at UNLV. Grant from the TRW Foundation, Cleveland, OH. June 1997. (PI: \$30,000).
116. Development of Operational and Management Programs for Traffic Infrastructure Management Systems (TIMS) for Clark County. ACE+3 Student Internship/Fellowship Program. Sponsored by Clark County Dept of Public Works, Las Vegas, NV. May 1997 - December 1998. (PI: \$18,377).
117. Development Modification of the CTPP Application Table between the 751 TAZ and 1096 TAZ Coverages. Sponsored by the Clark County Regional Transportation Commission, Las Vegas, NV. April 1997 - June 1997. (PI: \$6,724; Co-PI: Justin Rasas).
118. Development of a Roadway Infrastructure Management System. Sponsored by Clark County Department of Public Works, Las Vegas, NV. November 1996 - August 1997. (PI: \$39,447)
119. An Evaluation of Location Referencing Systems for Clark County Department of Public Work's GIS Program. Sponsored by Pavement Management Systems, Lake Forest, CA and Clark County Department of Public Works, Las Vegas, NV. July 1996 - October 1996. (PI: \$15,000).
120. A Decision Support Tool for the Location of Bus Turnouts: 1996 Revision. Sponsored by Clark County Department of Public Works, Las Vegas, NV. April 1996 - October 1996. (PI: \$23,920).
121. Safe Route to School Program - 1996 Update. Sponsored by Clark County Department of Public Works, Las Vegas, NV. May 1996 - Sept. 1996. (PI: \$24,131; Co-PI: Justin Rasas).
122. GIS Functional Requirements Study for the Clark County RTC - 1996 Update. Sponsored by the Clark County Regional Transportation Commission, Las Vegas, NV. March 1996 - May 1997. (PI: \$25,000; Co-PI: Justin Rasas).

123. Modification of Traffic Analysis Zones and Land Use Coverages for the Las Vegas Metropolitan Area TRANPLAN Model. Sponsored by the Clark County Regional Transportation Commission, Las Vegas, NV. February - April 1996. (PI: \$13,000; Co-PI: Justin Rasas).
124. Interfacing Geographic Information Systems (GIS) with Roadside Inventory Database (RID) of the Clark County Automated Roadway Management System (ARMS). Sponsored by Clark County Department of Public Works, Las Vegas, NV. February 1996 - January 1997 (PI: \$17,331).
125. Safe Route to School Program - 1995 Update. Sponsored by Clark County Department of Public Works, Las Vegas, NV. August 1995 - Sept. 1995. (PI: \$20,787; Co-PI: Justin Rasas).
126. Evaluation of Alternative Highway Routes for HRCQ Designation. Sponsored by the Nevada Department of Transportation / University of Nevada, Reno. Jan 1995 - Dec 1996. (PI: \$15,722).
127. Esmeralda County Highway Risk Assessment. Sponsored by Intertech Services Corporation/Esmeralda County, NV. Jan - Sept 1995. (PI: \$13,483; Co-PI: Emily Parentela).
128. White Pine County Highway Risk Assessment. Sponsored by Intertech Services Corporation/White Pine County, NV. Jan - Sept 1995. (PI: \$13,483; Co-PI: Emily Parentela).
129. Allocation of Census Data to Traffic Analysis Zones. Sponsored by the Clark County Regional Transportation Commission, Las Vegas, NV. Dec 1994 - June 1995 (PI: \$13,371. Co-PI: Rasas).
130. Transportation Systems Analysis, Risk Assessment and GIS-Applications. Sponsored by the Nevada Agency for Nuclear Projects, Carson City, NV. Oct. 1994 - Sept 1995 (PI: \$150,000. Co-PI: Emily Parentela).
131. Emergency Response Preparedness Analysis - Phase 2. Sponsored by the U.S. Department of Energy, Yucca Mountain Project Office, Las Vegas, NV. October 1994 - May 1995. (Co-PI \$20,638. PI: Walter C. Vodrazka).
132. Independent Verification and Validation of SPAS Program. Sponsored by the U.S. Department of Transportation. Federal Aviation Administration/ Sandia National Laboratories. October 1994 - September 1995. (PI \$54,756).
133. GIS Applications for Management Systems - Dwight Eisenhower Grant for Research Fellowship awarded to Jeff Jensen. U.S. DOT Federal Highway Administration, Washington, D.C. August 1994 - August 1995. (PI/Project Advisor \$27,849).
134. Review of DOE's Transportation Data Management System. Sponsored by The U.S. Department of Energy, Washington, D.C. August - October 1995. (PI: \$29,589).
135. GIS-Based System for Safe Route to School Program. Sponsored by Clark County Department of Public Works, Las Vegas, NV. June 1994 - Sept. 1994. (PI \$11,996).
136. Transportation Impact Assessment System Design. April 1994 - Sept. 1994. Sponsored by Intertech Services Corporation and White Pine County, NV. (PI \$21,206).
137. Risks Analysis of Radioactive Waste Transportation Using RADTRAN - Phase II. Feb 1994 - Sept. 1994. Sponsored by Lincoln County, Caliente, NV. (PI \$12,506).
138. Transportation Routing/Risk Analysis and Development of GIS-Based Analytical Systems. Sponsored by the Nevada Agency for Nuclear Projects, Carson City, NV. Oct. 1993 - Sept 1994 (PI: \$133,000).
139. Resource Mapping for the Lake Mead National Recreation Area: GIS Efforts. Sponsored by the National Park Service. Oct. 1993 - Sep. 1994. (PI: \$66,918).
140. RADTRAN Analysis of the Risks of Transporting Radioactive Waste by Rail through Lincoln County. Sep. 1993 - Jan. 1994. Sponsored by Lincoln County, Caliente, NV. (PI \$10,879).
141. Development of Linkages between Air Quality Modeling Systems and Transportation Planning Tools Using GIS. Sponsored by the Clark County Dept. of Comprehensive Planning, Las Vegas, NV. Sep. 1993 - Nov 1995. (PI: \$59,964. Co-PI: David E. James).
142. Emergency Response Preparedness Analysis. Sponsored by the U.S. Department of Energy, Yucca Mountain Project Office, Las Vegas, NV. Aug 1993 - May 1994. (Co-PI \$41,223. PI: Vodrazka).
143. Routing Analyses to Evaluate National Implications of State Route Designations. Sponsored by Nevada Agency for Nuclear Projects, Carson City, NV. Oct. 1992 - Sep. 1993 (PI \$145,000).
144. GIS Planning and Resource Mapping for the Lake Mead National Recreation Area. Sponsored by the National Park Service, Sep. 1992 - Sep. 1993. (Co-PI \$83,297. PI: Reg Souleyrette).

145. Functional Requirements Study for a Geographical Information System at the Nevada Department of Transportation. Sponsored by the Nevada Department of Transportation, June 1992 - March 1993. (Co-PI \$25,000. PI: Reg Souleyrette).
146. Development of a Knowledge-Based Decision Support System to Aid the Monitoring and Analysis of Transportation Impacts Associated with the Yucca Mountain Nuclear Waste Repository. Sponsored by Clark County Comp. Planning (Nuclear Waste Repository Division). Dec. 1991 - June 1992. (PI \$131,728. Co-PI: Edward Neumann).
147. Analysis of US DOE's Engineering Design for the Caliente Rail Spur to Yucca Mtn. Sponsored by the NV Agency for Nuclear Projects, Carson City, NV. Oct. 1991 - July 1992 (PI \$30,491).
148. Assessment of the Implications of the State of Nevada's Strategies on National Routing of Radioactive Materials. Sponsored by the Nevada Agency for Nuclear Projects, Carson City, NV. October 1991 - July 1992 (PI \$19,609).
149. Development of a Decision Support System/Tool for Location and Construction of Bus Stops and Turnouts. Sponsored by the Clark Co. Dept. of Public Works. Aug.- Oct. 1991. (PI \$9,892).
150. Study of Clark County Transportation System Baseline Conditions. Sponsored by Clark County Comprehensive Planning (Nuclear Waste Repository Division). May - Dec 1991. (Co-PI \$129,120. PI: Edward Neumann).
151. Development of a GIS based transportation modeling and mapping capability. Sponsored by the Regional Transportation Commission, Clark County. Feb. 1991 - Dec. 1991. (PI \$82,054).
152. Yucca Mountain Rail Access Construction Issues. Sponsored by the Nevada Agency for Nuclear Projects, Carson City, NV. January 1991 - June 1991 (PI \$8,500).
153. Needs assessment for modeling bus operations in the Las Vegas Valley. Sponsored by the Clark County Department of Public Works. June - Sep. 1990. (PI \$7,746).
154. Development of geometric design standards for bus turnouts and criteria for bus turnout location. Sponsored by the Clark County Dept. of Public Works. June - September, 1990. (PI \$9,790).
155. Analysis of the effectiveness of bus turnouts on Las Vegas Boulevard. Sponsored by the Clark County Department of Public Works. February - April, 1990. (PI \$9,425).
156. Functional requirements study for the implementation of a Geographic Information System program, Regional Transportation Commission, Clark County. Feb. - Oct. 1990. (PI \$75,314).
157. Analysis of the impacts of transporting radioactive materials: development of a system for route characterization and impact assessment including a computer model, GIS database integration, and routing analysis. Sponsored by the Nevada Agency for Nuclear Projects, Carson City, NV. August 1989 - May 1991. (PI \$150,000).

### **TEACHING AND STUDENT ADVISING**

#### ***Teaching Experience:***

Transportation Engineering	Airport Design	Geometric (Highway) Design
Transportation Planning	Air Transportation	Senior (Capstone) Design
Traffic Engineering	Rail Transportation	

Taught 19 different undergraduate and graduate courses at UNLV and ISU since 1989.

#### ***Advised and Graduated:***

- 8 students with Ph.D. Dissertations @ UNLV and ISU
- 33 students with MS theses @ UNLV
- 2 students with MS Projects @ UNLV
- Senior Design projects @ UNLV: 32 students
- Senior Design projects @ Iowa State: about 12 teams per semester Fall 2007 to Spring 2009.

#### ***Ph.D. Students - Advisor***

1. Eric Fitzsimmons, *An Evaluation of Vehicle Trajectory and Speed on Horizontal Curves*, May 2010 - May 2011. (co-advisor with R. Souleyrette). Post-doctoral researcher/Lecturer, University of Kansas.

2. Young, Raymond. *Examination of Air Transportation Trip Time Variability*. Aug 2003 – Dec 2008. (Director, Reston Technology Center, Sensis Corporation, Reston, VA).
3. Vasudevan, Vinod. *Policies for Highway Financing: Gasoline Taxes and Other Alternatives*. Aug 2005 - Dec 2008. Assistant Professor of Civil Engineering, IIT Kanpur, India.
4. Karkee, Ganesh. *Analysis of the Effectiveness of Pedestrian Safety Countermeasures*. Aug 2002 - Dec 2005. (Research Scientist, Texas Transportation Institute, San Antonio, TX).
5. Dangeti, Mukunda R. *Development of a Dynamic Spatial Analysis System for Transportation*. Jan 2001 – Aug 2005. (Assistant Research Professor, UNLV).
6. Pulugurtha, Srinivas S. Topic: *Modeling Temporal Variations in Travel Demand for Intelligent Transportation Systems*. August 1995 - May 1998. (Associate Professor, University of North Carolina, Charlotte, NC)
7. Parentela, Emelinda M. *A Framework for Modeling Risk and Emergency Response in Hazardous Materials Transportation*. January 1992 - April 1996. (Chairperson & Professor of Civil Engineering, California State University, Long Beach, CA).
8. Ackeret, Kenneth W. *Analysis of Saturation Flows at Single, Dual and Triple Left-Turn Lanes*. September 1993 - April 1996. (Vice-President, Kimley Horn and Associates, Las Vegas, NV).

#### **M.S. Students – Major Advisor Role**

1. Kumaresan, Vidhya. *Development of a GIS-Based Safety Analysis System*. August 2008. (continued for a PhD)
2. Virupaksha, Vinay. *An Evaluation of Innovative Countermeasures for Pedestrian Safety*. December 2007. (Civil Designer, C.A. Group, Inc., Las Vegas, NV)
3. Kaiparambil, Ancila. *Development of Safety Analysis and Intersection Infrastructure System*. December 2007. (Assistant Transportation Engineer, Iteris, Inc., Las Vegas, NV).
4. Vanapalli, Vinay. *Evaluation of the Effectiveness of Continuous Shoulder Rumble Strips*. December 2006. (Transportation Engineer in Training, Stanley Consultants, Phoenix, AZ)
5. Surapaneni, Vamsi. *Identification and Comparison of Crash Risk for Older Drivers*. December 2006. (Transportation Engineer in Training, Parsons Transportation, Las Vegas, NV)
6. Uddaraju, Madhuri. From January 2004. *A Decision Support Tool to Identify Countermeasures for Pedestrian Safety*. May 2006. (Traffic Engineer II, City of Phoenix, AZ).
7. Seera, Ravi. From August 2003. *Development of a Street Sweeper Fleet Management System*. November 2005. (Transportation Engineer, City of Chandler, AZ).
8. Balasubramanian, Sriram. *Development of a Model to Estimate Elderly Crashes at Signalized Intersections*. September 2005. (Transportation Engineer, Parsons Transportation, Las Vegas, NV).
9. Maheswari, Pankaj. *Estimation of Pedestrian Trip Generation Rates in Urban Areas*. August 2005. (Transportation Engineer in Training, Parsons Transportation, Las Vegas, NV; continued for a PhD).
10. Naroor, Rajeev. *Determination of Reliable Routes on Urban Street Networks*. August 2005. (Engineer, Stanley Consultants, Phoenix, AZ).
11. Mantri, Kondala Rao. *Evaluation of Pedestrian Countdown Signals in the Las Vegas Metropolitan Area*. October 2005. (Transportation Engineer, PBQD, Las Vegas, NV).
12. Krishnakumar, Vanjeeswaran Kannimangalam. *Development of an Automated Tool to Identify and Rank High Pedestrian Crash Zones*. January 2003 to December 2004. (Transportation Engineer, Louis Berger, Inc., Las Vegas, NV).
13. Pulugurtha, Nagasujana. *Identification of Risk Factors for Safety of Elderly Drivers*. May 2004. (Charlotte, NC).
14. Parimi, Venu. *Estimation of Reliability Index for Congestion on Urban Arterials Streets*. Anticipated Graduation date: May 2004 (Transportation Engineer, HDR, Inc., Las Vegas, NV).
15. Wongchvalidkul, Natachai. *Analysis of Factors Related to Pedestrian High Crash Locations*. January 2004. (Returned to Thailand, his home country; currently pursuing his PhD in Thailand).
16. Vasudevan, Vinod. *Identification of High Risk Pedestrian Locations*. December 2003. (continued for a PhD).

17. Hansen, Scott P. *Methodology for the Creation of Wilderness Trails*. (Project Option) November 2003. (City Engineer, City of Boulder City, Nevada).
18. Cui, Zhen-Zhong. *GIS-Based Evaluation of Mid-Block Pedestrian Crossing Safety*. December 2000. (Transportation Engineer, Greenman-Pedersen Inc., Albany, NY)
19. Tallapragada, Jyothi. *Development of a GIS-Based Framework for Evaluating Parking and Space Utilization*. September 2000. (Software consultant, Atlanta region, GA).
20. Menon, Ranjit. *A Windows Based Roadway Maintenance Management System*. November 1999. (GIS Analyst, Miner & Miner, Inc., Fort Collins, CO).
21. Yazdani, Kaizad. *A GIS-based Traffic Infrastructure Management System for Pavement Markers and Markings*. October 1999. (Assoc. Engineer, Design Division, Clark Co. Dept. of Public Works, NV).
22. Srinivasan, Nandanarayan *Evaluation of Accessibility of Urban Transportation Networks*. July 1997. (Senior Program Officer, Transportation Research Board, Washington, DC).
23. Morse, Diane *Topic: Developing a Traffic Control Device Maintenance Management System Interfacing with GIS*. May 1997. (Employed by the FAA, Michigan).
24. Jensen, Jeffery J. *Identifying and Illustrating Urban Traffic Congestion, Mobility and Accessibility Using a GIS*. November 1996. (Assoc Engineer, Clark Co Dept. of Public Works, Las Vegas, NV).
25. Mandocdoc, Marisa G. *A Methodology for Estimating Population for Transportation Risk Analysis*. August 1996. (Division of Operations- Traffic Design, CALTRANS District 7, Los Angeles, CA).
26. Burli, Sandeep. *A GIS-Based Decision Support System for Travel Demand Analysis*. October 1995. (Systems and Applications Developer, Boston, MA).
27. Madhavapeddi, Krishnapriya. *Evaluation of Key Factors in Transportation Risk Analysis*. August 1995. (Completed Ph.D. at the Univ. of Virginia, Charlottesville, VA; Principal Analyst, Information Mgt, ConvaTec, Bristol-Myers Squibb, Princeton, NJ).
28. Romer, Richard T. *An Integrated Systems Methodology for Pedestrian Traffic Flow Analysis*. May 1995. (Principal, Orth Rodgers & Associates, Las Vegas, NV).
29. Jarugumilli, Satyakala. *Travel Demand Modeling for Developing Countries*. April 1995. (co-Advisor with M. Kaseko). (Technical Support Engineer, Weblogic / Bea systems, Inc., San Francisco, CA).
30. Chagari, Anil K. *Risk Analysis for Hazardous Materials Transportation Using Geographic Information Systems*. May 1994. (Analyst, Central Transportation Planning Staff, Boston, MA).
31. Yang, Xinnong. *Development of a GIS-Based Routing Model*. December 1993. (Software Engineer, Autodesk, Inc., San Rafael, CA).
32. Kheir, Odeh S. *Factors Affecting Airport Terminal Configuration: An Application and Design for the Future Jerusalem International Terminal*. May 1993. (Lead Designer, Pulte Homes, Las Vegas, NV).
33. Helmuth, Keith B. *Signal Control and Geometric Design Strategies for Urban Arterial Operations: Evaluation of the Potential for a 1-Way Couplet in Las Vegas*. MSE Project. May 1993. (Transportation Manager, Carter & Burgess, Las Vegas, NV).
34. Emelinda M. *A Comprehensive Study of Bus Turnouts: Effectiveness, Location, and Design*. December 1990. (Continued for Ph.D. at UNLV).

#### **MSE Non-thesis option – Major Advisor Role:**

1. Durgin, Don (MSE). Fall 2002 to December 2004. (Engineer, Kimley-Horn & Associates, Las Vegas, NV / Houston, TX).

#### **Undergraduate Senior Design Projects – Advisor**

Nicole Scelsa, James Corney, Cindy Kinzer, *Redesign of Cottage Grove Road at Maryland Parkway*, Sponsored by the Clark County Department of Public Works, Spring 2004. – **Winner of the Best Senior Design Project award across the entire College of Engineering, UNLV.**



## PROFESSIONAL ACTIVITIES

### ***American Society of Civil Engineers (ASCE)*** (since 1985)

Educational Activities Committee, Member, October 2010 September 2012.

### ***Transportation and Development Institute***

Scientific Committee, T&DI 2<sup>nd</sup> Transportation Congress, Member: February 2013 to September 2012.

Planning and Economics Committee. Member: 2004 to date. (Chair, 1998-2000)

Airport Planning and Environmental Committee. Member: 2004 to date. (Chair, 1998-2000)

Education Committee, Member, since ~2004. Chair July 2012 to date

International Air Transportation Conference 2007. Member, Technical Program Committee. 2005 - 2007.

Conference Technical Program Committee Member, Appls. of Advanced Technologies in Transportation

7<sup>th</sup> International Conference, Boston, MA in Aug 2002.

8<sup>th</sup> International Conference, Beijing, China, May 2004.

Urban Planning Committee. Urban Transportation Division. Chair, 1998 to 2000; Control Group

Member, 1995 to 2002; Member: 1992-2002.

Environmental and Planning Committee. Air Transportation Division. Chair, October 1998 to Sept 2000;

present; Vice-Chairman, 1996 to September 1998; Secretary, 1994 - 1996; Member 1990 - 2002.

Committee on Computing in Transportation, Urban Transportation Division. (1993 to 2002).

Conference Steering Committee, 26<sup>th</sup> International Air Transportation Conference. Air Transportation Division. Member, August 1999 to June 2000.

Student Paper Competition. 26<sup>th</sup> International Air Transportation Conference. Air Transportation Division. Chair, August 1999 to June 2000.

News Correspondent, Urban Transport Division. December 1995 to September 1998.

Conference Coordinating Committee Member, "*Transportation, Land Use, and Air Quality: Making the Connection*," Specialty Conference, Portland, Oregon, May 18-20, 1998.

Landside Committee. Air Transport Division. (Member & Control Group Alternate, 1990 to May 1998).

Committee on Hazardous Materials Transportation, Urban Transportation Division. (Control Group Member, 1991 to 2002).

Committee on Computing in Transportation, Urban Transportation Division. (Member, 1993 to date).  
Transportation Committee. Southern Nevada Chapter. (Member - 1993 to 1997).

### ***American Society for Engineering Education (ASEE)*** (since 1990)

Civil Engineering Division.

Representative to ASCE Educational Activities Committee, Oct 2010 to September 2012.

Chair 2011-2012, Program Chair, 2010- 2011; Director, 2007 - 2010.

Newsletter Editor, June 2003 to June 2007

Campus Representative, UNLV. 1991 to 2007.

Pacific Southwest Section Past-Chair 1998 - 1999; Chair, 1997 - 1998; Chair-Elect, 1996 - 1997.

Director, Pacific Southwest Section (1995 - 1996)

Vice-Chair, New Faculty Activities, Pacific Southwest Section (1992 to 1995).

Coordinator, Young Member Activities, Pacific Southwest Section (1990 - 1991).

Coordinator, Pacific Southwest Section Annual Meeting and Conference, University of Nevada, Las Vegas (with R. Souleyrette). October 17-20, 1990.

### ***California-Nevada Super Speed Train Commission*** (1990 - 1991)

Member, Technical Advisory Committee: 1. Finance and 2. Technology Subcommittees. (1990-91).

### ***Council of University Transportation Centers (CUTC)***

President, 2014- to date; Vice-President 2013-2014; Treasurer, 2011-2012; Secretary, 2012-2013; Executive Committee, Director, 2010-2011.

Joint Collaboration Committee with the American Association of State Highway and Transportation Officials (AASHTO), Member, June 2010 to date.

***International Road Federation (IRF)***

Member, Program Committee, “Providing Infrastructure that improves Road Safety” IRF Symposium, Bucharest, Romania. May 10-11, 2011.

***Institute of Transportation Engineers (ITE)*** (since 1985)

Officer Nevada Chapter, Intermountain Section

President, 2005 to 2006; Vice President: 2004 to 2005; Secretary-Treasurer: 2003 to 2004

Member, Casino Gaming Trip Generation Sub-Committee, Sept 1998 to Dec 2006.

ITE Student Chapter, UNLV. Founder and Principal Faculty Advisor: 1989 to 2003; Secondary Faculty Advisor 1993 to 2007.

Chair, Technical Program Committee, Local Arrangements Committee for the 1999 ITE International Annual Meeting, Las Vegas, NV and the 1999 ITE District 6 Annual Meeting and Conference October 1997 to September 1999.

Organizing Committee, ITE District 6 Annual Meeting and Conference, Las Vegas, NV (Technical Program and Student Activities Coordinator), July 1993.

Member, Scholarship Program Committee, Inter-mountain Section, 1991 - 1995.

***Transportation Research Board***, National Academy of Sciences (since 1986)

Panel Member, HMC RP HM-18 Evaluation of Small Quantities of Class 3 and Class 9 Hazmat Materials in Transportation, August 2013 to date.

Panel Member, NCHRP 01-01 Building and Retaining Workforce Capacity for the Rail Industry, October 2012 to date.

Panel Member, NCHRP 08-92 Transportation Data Program Self-Assessment Guide, July 2012 to date.

Panel Member, HMC RP HM-16 Model Hazardous Materials Transportation Education Curriculum, February 2011 to August 2013.

Committee on Conduct of Research, ABG10. Member, April 2012 to date.

Committee on Education and Training, ABG20. Member, Dec 2008 to date.

Committee on National Transportation Data Requirements & Programs, ABJ10. Co-Chair, 2012 to date; Paper Review Committee Chair, August 2010 to date; Member, June 2008 to date.

Task Force on Mastering the Management of Transportation, ABG05T, Member, Oct 2013 to date.

University Representative, UNLV. August 1998 to Jan 2007.

Committee (A5008; ABJ70) on Artificial Intelligence & Intelligent Computing. (Member, 1993 to 2007).

Committee (A5015; ABJ60) Committee on Spatial Data and Information Science. Member 1999 to 2005; Friend, 2005 to date).

Task Force (A4T52) on Geographic Information Systems for Transportation (Member, 1995 - 1999).

Subcommittee on Applications of GIS of Data Committee A1C03. (Member 1990 to 1995).

Committee (A3C10) on Hazardous Materials Transportation (Friend, 1990 to 1996).

Committee (A1D01): Statewide Multimodal Transportation Planning. (Member, 1990-93)

***Transportation Engineering & Road Research Alliance (TERRA)***, University of Minnesota

Board Member (March 2007 to August 2012)

Member and Partner Engagement Committee, Member (May 2007 to August 2012)

***US Department of Transportation – RITA and Council of University Transportation Centers (CUTC)***

Member, National Workforce Development Summit Planning Team (March 2009 to date)

**Other**

International Program Committee, The First International Conference on Transportation Logistics, Hosted by the Centre for Transportation Research, the National University of Singapore, July 27-29, 2005 (Member, November 2004 – July 2005).

Technical Program Committee, IEEE 5th International Conference on Intelligent Transportation Systems (ITSC 2002), Singapore. September 3-6, 2002. Member.

**Referee and Peer Review Activities**

American Society for Engineering Education – Civil Engr Division, New Engr Educators Committee.

Journal of Transportation Engineering, American Society of Civil Engineers.

Institute of Transportation Engineers

Journal of Advanced Transportation (Member, Editorial Advisory Board 1998-2004).

Journal of Computer-Aided Civil and Infrastructure Engineering (Microcomputers in Civil Engr)

Journal of Public Transportation

National Science Foundation. Member, Panels for Reviewing Proposals.

Transportation Research Board of the National Academies

Transportation Research Records

National Cooperative Highway Research Program

National Cooperative Freight Research Program

Transportation Research, Elsevier Science Ltd.

University of Alabama, The University Transportation Center for Alabama.

University of Minnesota, ITS Institute.

**Text book reviews:**

American Society of Civil Engineers, Publications Department, Washington, D.C.. A. S. Narasimha Murthy, Transportation Engineering Basics, Third Edition, October 2004.

Prentice Hall /Pearson Education, Inc. Englewood Cliffs, NJ. 2001-2003.

Fricker, Jon D. and Robert K. Whitford. Fundamentals of Transportation Engineering: A Multimodal Systems Approach, 2004.

Khisty, C. Jotin, and B. Kent Lall. Transportation Engineering: An Introduction, Third Edition, 2003.

**University and Community Service Activities**

**University of Tennessee, Knoxville**

College of Engineering

Scholarship Advisory Committee, February 2014 to date.

**Iowa State University**

University

President's Council, March 2007 to August 2012.

Research and Economic Development Council, July 2009 to August 2012.

Coordinating Group for Interdisciplinary Research Centers and Institutes, January 2008 to June 2008.

Research Computing Council, December 2007 to June 2009.

Economic Development Council, March 2007 to June 2009.

Research Council, March 2007 to June 2009.

**Department of Civil, Construction, and Environmental Engineering**

Curriculum Committee, September 2012 to December 2013.

Awards Committee, September 2012 to December 2013.

Faculty Search Committee for Transportation Engineering, Member, October 2011 to May 2012.

Faculty Search Committee for Structural Engineering, Chair, September 2010 to May 2011.

Advisory Board, Member, March 2007 to August 2012.

Administrative Council, Member, March 2007 to August 2011.

***University of Nevada, Las Vegas***

Phi Kappa Phi Honor Society, UNLV Chapter, President-Elect, 2004-2005. President, 2005-2006.  
Council of University Centers, Institutes, Museums and Laboratories, Member, Aug 2003 to Jan 2007.  
Transportation Research Board, National Academy of Sciences, University Representative, July 1998 to Jan 2007.  
Maitri - Indian Students Association, Faculty Advisor, Aug 2001 - Dec 2004.  
Research Computing Committee, Member, Jan 1998 to 2002.  
Conference Steering Committee for the 1999 Annual Meeting and Conference of the American Society for Engineering Education/ Pacific Southwest Section, Member, 1997 to March 1999.  
University Research Council, Member, September 1996 to May 1999.  
Professional Staff Search Committee, Administrative Computing Services, Member, November 1997 to March 1998.  
University Planning Council, Member, May 1997 to May 1998.  
Task Force for Planning, and Chair of Response Committee for College of Sciences Strategic Plan, Member, August 1996 to May 1996.  
Search Committee for Dean of Enrollment Management, Member, February 1996 to May 1996.  
Search Committee for Vice Provost for Information and Technology, Member, Dec 1995 to May 1996.  
Subcommittee on Research, President's University Strategic Planning Advisory Committee, Member, November 1995 to March 1996.  
Faculty Senate Library Committee, 1992 to 1996. (Member: 1992-1994; Chair: 1994-1996)  
Spanos Teaching Award Committee, 1991 to 1994.  
Scholars Calling Scholars Program (Office of the President): 1991, 1992, 1993.

***UNLV Howard R. Hughes College of Engineering***

*The ABC'S of Integrating Intelligent Transportation Systems (ITS) Public Safety, Security and Emergency Management National Symposium – I*, Sponsored by the Clark County Department of Comprehensive Planning, Nuclear Waste Division, Las Vegas, NV, October 25-26, 2004; *Symposium II*, Las Vegas, NV June 1-2, 2005. Steering Committee Member,  
Tau Beta Pi Engineering Honor Society, Nevada Beta Chapter, Faculty Advisor, May 1999 to Jan 2007. Senior Advisor July 2000 – May 2003.  
College of Engineering Computing Technician Search Committee, Member, Sept 2000 to April 2001.  
University College of Sciences and College of Engineering Computing Committee, Member, 1997-1998.  
Computing Committee, Member, 1993 - 1997.  
Curriculum Committee, Member, 1991-92.  
ITE Student Chapter, Faculty Advisor, 1990 to 1994.  
College of Engineering, Engineering Week Lab Instructor, February 21, 1992.  
College of Engineering Representative, College Fair (Reno), November 1993.  
College of Engineering Representative, College Fair (Cashman Field - Las Vegas), 1991, 1992, 1995.  
College of Engineering Science and Technology Day Lab Instructor, 1990, 1991.  
Member, Search Committee for the Director, UNLV Transportation Research Center, 1990.  
Clark County Community College - UNLV Day, 1990.

***UNLV Department of Civil and Environmental Engineering***

Strategic Planning Ad-hoc Committee, December 2003 to 2005.  
Member, Dr. Tom Piechota's Tenure Advisory Panel, March 2004 to September 2004.  
Member, Curriculum Committee, October 2003 to September 2004.  
Graduate Program Coordinator. September 2001 to August 2002.  
Member, Dr. Jae Ho Son's Mid-tenure Review Panel. September 2001 to May 2003.  
Member, Engineering Criteria 2000 for Accreditation Task Committee. August 1999 to September 2001.  
Chair/Member, Student Awards /Scholarships Committee, 1993 to 2006.  
Chair, Dr. Barbara Luke's Tenure Advisory Panel. May 2000 to September 2000.

Member, Dr. Jaci Batista's Mid-tenure Review Panel, January 2000 to March 2000.

Member, Dr. John Gambatese's Mid-tenure Review Panel, January 2000 to March 2000.

Member, Dr. Mohamed Kaseko's Tenure Review Panel, March 1998 to September 1998.

Member, Dr. Barbara Luke's Mid-tenure Review Panel. Jan 1998 to April 1998.

Chair, Undergraduate Curriculum Review Committee, 1991-92 (in preparation for ABET visit).

Coordinator, Faculty Search Committee, 1991 to 1993.

Member, Chair Search Committee, 1991 to 1992.

**Note:** In 1998 I changed my name legally from Shashi K. Sathisan to Shashi Sathisan Nambisan. Thus, my records prior to 1998 would be under my former name.