

Background

The University of Nevada, Las Vegas Transportation Research Center (TRC) was established in 1988 initially as the Nuclear Waste Transportation Research Center. In 1991, its name was changed to the Transportation Research Center. Housed in the Howard Hughes College of Engineering, since its inception, TRC's activities have included participation by a number of faculty from the Departments of Biological Sciences, Civil and Environmental Engineering, Electrical and Computer Engineering, Geo-sciences, Mathematical Sciences, Mechanical Engineering, and Public Administration. To date, the TRC has involved over eighty undergraduate and graduate students in over eighty sponsored projects conducted at the center. These projects have supported a wide range of sponsors including several federal, state and local government agencies and a few from the private sector. The center also has benefitted from three generous grants from the TRW Foundation. In addition, the center has hosted several workshops, training sessions, and conferences.

The following are the mission, goals, and focus of the TRC.

Mission

Promote and Conduct Transportation Research, Educational, and Outreach Activities.

Goals

- Develop and Maintain a Nevada-based Center For Multi-modal Transportation Research and Policy Analysis.
- Educate And Prepare Students For Careers In Transportation.
- Provide Extension and Outreach Services to Public and Private Sector Organizations.

Location

The TRC is physically located in the Thomas Beam Engineering complex with a laboratory-cum-office suite in Room 363 of the "B" building. Additionally, faculty, staff and students associated with the TRC have other offices in the "B" building of the Howard R. Hughes College of Engineering.

Personnel

The following individuals worked at or participated in activities of the TRC during a part or all of 2001. The faculty members hold tenure track positions with academic departments at UNLV.

Faculty:

Mohamed Kaseko, Ph.D. (Civil Engineering)
Shashi Nambisan, Ph.D., P.E., Director (Civil Engineering)
Ed Neumann, Ph.D., P.E. (Civil Engineering)
Ashok Singh, Ph.D. (Statistics/ Mathematical Sciences)
Walter C. Vodrazka, Ph.D., P.E. (Civil Engineering)

Professional Staff:

Erin Breen, Coordinator, Safe Communities Partnership
Diane Pidsosny, Transportation Safety Specialist
Srinivas Pulugurtha, Ph.D., Assistant Research Professor
Maggie Saunders, BA, Coordinator, Pedestrian & Bicycle Safety Program
Walter C. Vodrazka, Jr., E.I., M.S.C.E., Transportation Systems Analyst

Consultants:

Jeff Jensen, M.S.E.
Tom Miller, B.S.E.
Robert Puterski, M.A.

Students:

Undergraduate Students:

Sarah Boswell (BS - Undecided) (from October 2001)
Phil Bury (BSE - Civil Engineering) (through January 2001)
Jonathan Ford (BS - English/History) (from October 2001)
Jennifer Gwiazdowski (BS - BioChemistry) (through October 2001)
Micah Kagimoto (BSE - Civil Engineering) (from February 2001)
Tommy Lawson (BSE - Civil Engineering) (from July 2001)
Mani Mani (BSE - Pre-Engineering)
David Moss (BSE - Computer Engineering)
Stacie Paul (BS - Marketing) (through October 2001)
Jennifer Tracey (BS - Fine Arts)
Nick Warnke (BSE - Civil Engineering) (from June 2001)

Graduate Students:

Mukund Dangeti (PhD - Civil Engineering)
Anil Mudigonda (MS - Civil Engineering)
D.V. Rao (MS - Computer Engineering)
Vinod Vasudevan (MS - Civil Engineering)
Natachai Wongchavalidkul (MS - Civil Engineering)

High School Students:

Frisco Elangiyil

Sean Schmitt

SUMMARY OF ACTIVITIES IN 2001

Faculty, staff and students at the TRC work on a wide range of topics and projects. These include efforts that are akin to those undertaken by traditional academic programs as well as non-traditional efforts and projects. Traditional research efforts include the development of decision support tools, transportation routing and risk analysis related to radioactive materials transportation, and evaluation of urban traffic congestion. One of the key outcomes of such efforts has been the development and deployment of an Internet and GIS-based system to assist state and local agencies better manage transportation infrastructure and operate the same efficiently.

The Safe Community Partnership program, the Stand Tall, Don't Fall Program, and the Pedestrian and Bicycle Safety Program undertaken by the TRC are non-traditional projects. The Safe Community Partnership program's mission is to further the pursuit of improved safety on the transportation network. The focus of its products is on continued outreach and technology transfer to stakeholders, and not so much in peer reviewed publications, conference presentations and technical reports. The *Underage DUI and Traffic Safety: A Research and Education Program* also known as the Stand Tall, Don't Fall Program was started in January 2000 to address the concerns about underage drinking in Nevada and safety implication of the same. The Program's mission is to normalize and glamorize non-drinking decisions. The main purpose of this Program was to establish and assist Stand Tall Programs in Nevada high schools. The Pedestrian and Bicycle Safety program's mission is to reduce pedestrian and bicycle crashes.

The Safe Community Partnership program is discussed next and it is followed by discussions of the Stand Tall, Don't Fall program, Pedestrian and Bicycle Safety program, and Federal Highway Administration (FHWA) Pedestrian Safety programs. It is followed by a summary of activities of the TRC for the calendar year 2001. This summary includes the following categories: publications, presentations and conference activities, sponsored research projects and grants, professional society activities, supervision of graduate student thesis/dissertation, honors and awards, and conference and workshop attendance. (NOTE: this reflects outcomes and products of the efforts of individuals associated with the TRC. Many of these activities benefitted from financial support from sources outside the TRC related funds. The faculty members were also associated with academic departments. Thus, items with their involvement would also be reflected in reports submitted by their respective departments).

SAFE COMMUNITIES PARTNERSHIP

The Safe Community Partnership is made up of representatives from thirty nine local agencies and programs in the urbanized Clark County area. The goal of the Partnership is to enhance transportation safety by lessening the burden of traffic crashes on residents and visitors in Clark County. The program is funded through the Nevada Office of Traffic Safety with Federal 402 Highway Safety money that each state receives. Most programs funded with Federal 402 money are only for three years. The Partnership finished the final year of its initial funding on September 30, 1999. However, because of the success of the program it was funded fully for another three years - i.e., until September, 2002.

All of the objectives established for the partnership were exceeded in 2001. These objectives are discussed next with highlights of the year's activities. Even though the goals of the program may not fit into the "traditional" mold for university success, the program is a great asset to the university and helps to achieve several of the goals established to become a premier urban university.

Objective One: *To continue to generate membership in the traffic safety coalition, to ensure that at least five of the following interest areas are represented on the coalition:*

- ▶ Education - Elementary School
- ▶ Education - High School
- ▶ Emergency Medical Services
- ▶ Enforcement
- ▶ Engineering / Public Works
- ▶ Injury prevention
- ▶ Insurance Industry
- ▶ Judiciary

2001 UNLV's Safe Community Partnership Member List

AAA Insurance	KVBC Channel 3
American Medical Response	Las Vegas Area Computerized Traffic System
American Society of Safety Engineers	Las Vegas Metropolitan Police Department - Community Policing
	Las Vegas Metropolitan Police Department - Traffic Division
Aztec Communications	Las Vegas Traffic School
CAT Paratransit	Nevada Beverage
Chayra Communications	Nevada Highway Patrol
Citizens from the community at large	Nevada Insurance Institute
City of Las Vegas Engineering	Nevada Trial Lawyers Association
Clark County Coroners Office	North Las Vegas Fire Department
Clark County Court Education Program	North Las Vegas Police Department
Clark County Family and Youth Services	North Las Vegas Traffic Engineering
Clark County Health District	Pat Clark Pontiac GMC
Clark County Risk Management	Progressive Insurance
Clark County Safe Kids Coalition	Regional Transportation Commission
Clark County Traffic Management	Safety Consultants, Inc.
Clark County School District	Sierra Health Services
Department of Motor Vehicles	Smiths Food and Drug Centers
District Attorney's DUI Task Force	Sprint Telephone
Golden Nugget	State of Nevada Office of Juvenile Justice
Henderson Fire Department	Sunrise Hospital
Henderson Police Department	UMC Trauma Services
Henderson Public Works	University Medical Center
Dagerman's Just for Kids	UNLV Police Department

Objective Two: *To schedule Partnership meetings; to prepare and post agendas; and to provide staff support to coalition members.*

Partnership meetings were held on the second Thursday of every month at Jean Hanna Clark Rehab Center or at the Clark County Government Center. A sample agenda from the September, 2001 meeting is shown in the figure below.

Objective Three: *To provide the coalition members with a community profile to aid identifying the top four traffic safety priorities in Clark County and to develop and implement countermeasure programs to reduce the rate and severity of injuries in these areas.*

Data analysis conducted at the TRC aided the Partnership in developing the program's priority areas for 2001. The established priorities were:

- Pedestrian Safety
- Teen Drivers
- Alcohol Issues, and
- Occupant Protection.

A committee was established for each priority. Some of the events and actions that the committees completed are discussed next.

Pedestrian Safety

The pedestrian safety committee acts as a advocacy group throughout the community. Presentations are made on almost a weekly basis for pedestrian safety. The Partnership also works with all of the engineering departments of the incorporated cities of Clark County and Clark County Public Works trying to get improvements made or pilot programs developed. We are active members of a committee at the RTC for developing a plan for Clark County for "Alternative Modes of Transportation" which meets at least monthly and will present a final recommendation to the County in February, 2002.

During the year we secured funding for and hired a full time professional staff person to be the "Pedestrian and Bicycle Safety Program" coordinator. This new position will allow the Safe Communities program to expand and be more responsive to the growing safety needs in Clark County as well as on campus. The position was filled in May of 2001 and is housed within the TRC.

The biggest and most visible pedestrian safety event that was held during 2001 was "*Walk Our Children to School Day*," which was held on October 2nd at eighteen local elementary schools. Due to an opportunity of working with the State Department of Education for funding to participating schools we had a much more intensive preparation for this program than in the past. Beginning in July we called schools and set up appointments with principals, office managers or other appropriate personnel at 25 area schools. In August we began meeting with schools to solicit their involvement with the program. We ended up with 18 elementary schools and 2 junior highs participating. We developed materials for the campaign and kept schools updated on what to expect. We met with PTA and PTO presidents and acted as a liaison for the Food Service Department, the participating schools and the Department of Education. We developed and distributed press releases for the event and coordinated volunteers for the schools that requested our assistance. We developed a post survey to establish who would like to continue working with us on more safety issues for their schools. We estimate more than 10,000 kids and parents walked to school for this event in Clark County. We are featured as one of six national stories on the website for WOCTSD events and had an overall positive experience with this project this year.

Our message was on milk cartons, shown on the next page, from the local dairy for two weeks and flyers were distributed at area Smith's Food and Drug Stores where we also partnered with Anderson Dairy to distribute education, reflectors and ice cream for two weekends prior to Halloween.

Teen Drivers

We continued our participation in efforts to get a Graduated Licensing Bill passed. The committee made presentations whenever possible to educate the public and legislators about the proposed legislation. There was limited success with the bill being passed but in a lesser version than we would have liked. We will again work with legislators and advocates to get the bill strengthened in the 2003 session.

Alcohol Issues

The most visible event during the year for alcohol awareness was in December where we partnered with UMC Trauma Center and Stop DUI to bring together “You Drink and Drive, You Lose” which was a day long media event held December 19th. There were comments made by victims, surgeons and police officers about drinking and driving, there was an alcohol demonstration to show how much alcohol is needed to be .05, .08 and .10. Field sobriety tests were given to show the correlation of alcohol to coordination. We held relay races with teams of doctors, firefighters, police and media all wearing glasses that simulate being drunk, there was a victims impact panel and luncheon to cap the day which also featured informational booths. Every media outlet in Las Vegas covered the event and kept using the information throughout the holiday period.

Also featured at this news conference was the *Santa is Coming to Town, Please don't hit him* DUI awareness promotion which included buttons and tables tents for area bars, tee shirts for all to wear donated by AAA and an appearance by Santa himself to pass out the buttons.

Occupant Protection

The main focus of the occupant protection committee in 2001 was infant and toddler passengers in motor vehicles. The partnership teamed with Las Vegas Metro and the Clark County Safe Kids Coalition to run six child safety seat checkpoints throughout the year. This program is the National Model for mandatory safety seat inspection checkpoints. Every vehicle observed to have an infant or toddler as a passenger was pulled out of traffic for a safety seat inspection. The seats were inspected for proper use as well as for damaged or recalled seats. In the event of a damaged or recalled seat, the seat was confiscated and a replacement seat was given to the driver at no charge. The events were covered by the local television news programs including live reports.

Objective Four: *To participate, in cooperation with OTS and other community partners, in at least two events which attract media attention and gain media in print and television.*

Most of the events that the Partnership organized have been discussed in the previous sections. This objective was met within the first two months of the year and continues to grow as we branch out in to new endeavors within the community. We always promote our affiliation with the University and our association with the Transportation Research Center.

Objective Five: *To conduct an annual safe communities event to assemble individuals interested in traffic safety in a forum that includes an awards ceremony and features at least one prominent*

civic leader speaking about the problems related to traffic safety.

The Partnership Awards Luncheon was held in September at the Palace Station. Over 100 people attended the luncheon which featured John Moffat, Governor's Highway Safety Representative for Washington speaking on the importance of police officers understanding the role that motorists play in pedestrian safety. Seven awards were announced from a field of twenty nominees they were as follows, winners are in bold:

Engineering

Jerry Duke, (Regional Transportation Commission of Southern Nevada), Ebony Folk, (City of Las Vegas, Department of Public Works, Traffic Division), John Runiks, (City of North Las Vegas, Department of Public Works, Traffic Division)

Enforcement

Scott Leonard, (Boulder City Police), Frank Simmons, (Henderson Police), **Frank Weigand, (Las Vegas Metro)**

Education

Mike Bernstein, (Clark County Health District), Twila Richter, (Estes McDoniel Elementary), Maria Rodriguez, (Regional Transportation Commission of Southern Nevada)

Emergency Medicine

Donald Kwalick, MD, (Clark County Health District), Mary Oberg, RN, (University Medical Center, Trauma)

Community Partner

CCSD Partnership Office, (Clark County School District), **Tom Hawley, (KVBC-TV3)**, Ingrid Yocum-Reisman, (Regional Transportation Commission of Southern Nevada)

Humanitarian

Susan Snyder, (Las Vegas Sun and Las Vegas Bike Club), **Mary Vaughn, (Silvestri Jr. High Counselor)**

Community Angel

B & E Auto Auction, **Kiki Rodgers, (Pat Clark Pontiac, NV Beverage)**, Smith's Food and Drug

Objective Six: *To continue with community based traffic safety education programs featuring the OTS mascot, SALLY, at a minimum of six public events; and to develop and distribute at least two printed educational pieces and two radio public service announcements; and two television airings.*

Several events featured the OTS mascot SALLY (Save A Life Like Yours). These events included but were not limited to the following:

1. Walk Our Children to School Day
2. Operation ABC
3. Safety Fairs at Smith's Food and Drug
4. Seat belt check points throughout the year
5. Back to School Fair at the Boulevard and Meadows Mall in August
6. Elementary School Bike Rodeos held throughout the year.

Objective Seven: *To use any revenues generated to expand the activities of the coalition beyond those funded with this project and to track and report all fund and in-kind donations.*

The Partnership administered three grants and a Regent Award during 2001. The Regent Award was for the establishment of a Safe Communities Student Organization at UNLV run through the TRC. This individual would attend events in the community, participate in Partnership meetings, and serve as liaison with the student organization. One of the grants awarded to the Partnership was to establish a part-time student coordinator (Paul) for the "*Stand Tall, Don't Fall: United Against Underage Drinking*" project in Clark County. This grant was provided by the State of Nevada, Department of Human Resources, Division of Child and Family Services, Juvenile Justice Programs Office. One of the main responsibilities of this person was the logistical planning for the Summer 2001 Stand Tall, Don't Fall Leadership conference held in Las Vegas. The other grant was approved and continued the full-time coordinator (Pidosny) for the Youth DUI project in Clark County. Both of these grants were terminated at the end of September 2001. The third grant is from Nevada Office of Traffic Safety and is to hire a full-time bicycle and pedestrian safety coordinator. This was accomplished during March and April, with the successful candidate beginning on May 1st, 2001.

Stand Tall, Don't Fall Program

The *Underage DUI and Traffic Safety: A Research and Education Program* also known as the Stand Tall, Don't Fall Program was started in January 2000 to address the concerns about underage drinking in Nevada and safety implication of the same. The Program's mission is to normalize and glamorize non-drinking decisions. The Nevada State Juvenile Justice Commission (NVJJC), Division of Child and Family Services has contracted the Transportation Research Center (TRC) at the University of Nevada, Las Vegas (UNLV) to design programs to assist law enforcement agencies in their effort to enforce underage drinking laws. This program includes providing additional training opportunities to the law enforcement community as well as developing and assisting programs in the area high schools. This report provides an overview of the work done by the Enforcing Underage Drinking Laws (EUDL) staff towards the goals established at the start of this project. The goals of the program and the efforts undertaken to complete each are discussed in the following sections.

Goal 1: To identify, develop, and implement a cohesive law enforcement process of apprehending, processing, and deterring underage drinkers.

Restorative Justice Program

Ms. Pidsosny, the Clark County Program Coordinator, has been developing a Restorative Justice model that will be used with youth apprehended for alcohol related offenses. This program is being developed in Boulder City with the assistance of Clark County Family and Youth Services (FYS) and the Law Enforcement, City Council, City Attorney, and Citizens from Boulder City. Monthly meetings have been held with the interested parties since August.

Boulder City was chosen for the development of the Restorative Justice model because of the desire of the Boulder City Officials and Citizens to become more involved in the lives of the youth. When first approached in August 2000, Boulder City had a small program to deal mainly with truancy issues among youth (one court date per month, 22 youth). The initial program came about after community leaders realized that the youthful offenders were taken to Clark County Intake and released with little to no consequences attached to the offense. After holding monthly meetings with the involved parties listed above, the program has expanded to deal with all youthful offenders (two court dates per month, 100 youth).

Several of the items that have been discussed and modified at the monthly meetings are explained below. The initial step in the development of the model was to convince the meeting attendees of the usefulness of the Restorative Justice model. The Outline of the model as first presented was as follows:

1. Citation Issued (Police Officers)
2. Fine Issued (Family and Youth Services)
3. Drivers License Pulled
4. Community Service
5. Educational Program (LVMPD)
6. Alcohol Assessment
7. Parental Involvement

Once the basic outline was accepted by the committee work started in the development of the model. Several obstacles were overcome by the committee to get the model development moving. One of the concerns was the lengthy report process the police are required to complete for each youthful offender. The committee streamlined the report process with the approval of the Boulder City Police Department and Clark County Family and Youth Services. Las Vegas Metropolitan Police Department is developing an educational program to be used as needed in the model as well as in the schools and communities. The committee felt that parental involvement should be a major aspect of the model. The parents are involved in the alcohol assessment process. The City Attorney gave approval for a plan to cite the parents for negligence for repeat youthful offenders. The most important aspect of the model is the alcohol assessment.

This provides the FYS with a tool to determine the level of risk of the youth and proper treatment necessary for the youth and family. The assessment program selected for the model is the Pacific Education Services. This program was selected after reviewing five assessment providers over a period of five months. The selection process included reviewing proposals and meeting with the providers to determine their willingness to locate a facility in Boulder City. The programs evaluated to provide the assessment services for the model were:

1. Star Counseling (Indian Reservation)
2. Bridge Counseling
3. UNLV's Nevada Institute of Children
4. Pacific Education Services
- 5.. UNLV

This was done after reviewing assessment providers to determine which type of assessment would best fit the overall needs of Boulder City.

The following is a summary of the Restorative Justice program:

1. The program was ready for implementation for June
2. Family and Youth Services met with Judge Steel to discuss the process. Judge Steel decided that a Judge needed to be included in the process.
3. Judge Victor Miller was sanctioned by Judge Steel to hear juvenile cases in Boulder City starting in August, 2001.
4. Meeting (scheduled July 18) to include all committee members and Judge Miller to discuss the process and make any changes deemed necessary by the Judge.
5. The current process will continue until Judge Miller takes charge. This process already has some of the changes suggested by the Committee.
6. The process (that was to be started in June) included the following items:
 1. Citation issued (shorter police report)
 2. Court date
 3. Seen by Parole and Probation from Family and Youth Services in court setting
 4. License pulled
 5. Alcohol Assessment
 6. Community Services
 7. Alcohol Education Classes (Parental Involvement)
 8. Second court date
 1. Additional counseling (recommended by Pac. Educ)
 2. Additional Education
 3. Once all steps are complete, license returned, down with court for this offense.
7. Hopefully Judge Miller will not change the process.
8. Fines and Fees will be determined at the July meeting.

Ms. Pidosny met with Kathy Bartosz (OJJDP) and Kirby Burgess (Director of Clark County Family and Youth Services (CCFYS)) to discuss the planned Restorative Justice Program. Mr. Burgess's main concerns dealt with providing alternative evaluation/treatment facilities for insurance purposes. Since this meeting several other providers have been contacted to be included in the program. The current list of providers are Pacific Education Services (Original), Star Counseling, and Bridge Counseling. Other alternatives are being considered. It was agreed to evaluate the program/process once it has been in place in Boulder City to determine if any changes are needed before it is installed

to operate in other Clark County Entities.

The next step in the process was to determine the proper way to track the youth offender in this program. At the June 18 meeting with Mr. Burgess it was determine to have the youth offender diverted through Parole and Probation to the Stand Tall, Don't Fall Youth Diversion Program. Ms. Pidsosny met with Fritz Reese (Assistant Director CCFYS) on August 15. At this meeting it was determine that Ms. Pidsosny should track the offenders through the Diversion Program. The Family Track system will be installed on Ms. Pidsosny's computer and training will be provided by CCFYS. This will enable Ms. Pidsosny to update CCFYS as to the progress of each offender in secure manner.

Plans for the education aspects of the diversion program are also being finalized. The Trauma Center Nurses at University Medical Center are developing an education program which will include a short education program, a "sights, sounds, and smells" tour of the Trauma Center, and a debriefing session. Another addition will be a program under development at the Clark County Coroner's Office. At a meeting on August 23, the basic outline of the program was discussed. The program will include education, morgue tour, and a debriefing session. The youth will be told how some of the bodies have found their way to the morgue and what happens to these bodies once they arrive. This is a mandated program that should be operational in January 2002. Once the program is operational it will be enveloped into the diversion program. Another educational under development is a tour of the B&E Auto Auction car yard. The participants view cars involved in alcohol related crashes and stories are told pertaining to each crash. This program has been done in the past and Ms. Pidsosny is trying to reinstate it. Ms. Pidsosny is also developing an alcohol education class that each offender will have to attend. This class will consist of statistics, laws and consequences, victim pictorial and stories, selected videos, fatal vision goggles, youth survey, and a question and answer session.

The community service aspect of the diversion program has also been refined. At present Parole and Probation allow each individual to find their own community service (as long as the benefactor is non-profit). Currently a list of community service outlets is being developed for use by the youth offenders in the diversion program. This list will include places such as the Clark County Graffiti Abatement Program, University United Methodist Church Neighborhood Pride Zones Programs, Cambridge Family Resource Center, Boulder City schools, and the Veterans Memorial Museum. The list has approximately 20 programs. Alternative non-profit locations will be considered on a case by case basis and may be added to the list.

Once the additions have been approved by the Committee a Diversion Program Binder will be produced for all involved parties.

Alcohol Sting Operations

Additionally, Ms. Pidsosny is working with the Clark County Business Licensing Office (CCBL) in conjunction with the "Sting Operation" database management. The CCBL has been made aware of the sting operations. Through conversations with Adele Jorgenson, Director CCBL and Brad

Fornier, also of CCBL, a cooperative effort has been established to share the information obtain from the “Sting Operations.” This information will be used by CCBL to bring all stores in non-compliance in front of the Clark County Board of Commissioners. Additionally, the EUDL Program and the CCBL developed an award to be given to stores and outlets that are in 100 percent compliance of underage drinking laws. This award has the Clark County seal, the Metro logo, and the Stand Tall logo displayed. Ms. Pidsosny is in contact with the City of Las Vegas Business Licensing Office to establish a similar working relationship.

For each “Sting Operation” involving enforcement of underage drinking laws, a data collection form is completed for each attempt. This form was developed in a cooperative effort between OJJDP, law enforcement agencies, and EUDL staff. In order to manage this information in a useable format, a data base was developed by Srinivas Pulugurtha with the guidance of OJJDP and EUDL staff. The data base was developed using a revised data collection form. This data base will be populated by information from the forms previously collected (original form, usable information only) and the revised data collection forms. The revised forms were sent to law enforcement in March, 2001. Currently the five Metro Area Commands and Police Departments from Boulder City, Henderson, Mesquite, and North Las Vegas use the form when conducting sting operations. This data base was developed to analyze and use the collected information for several purposes. The first purpose is to track businesses that are habitually in non-compliance of the underage drinking laws to target them for additional educational attempts before a decision is made by the Business Licensing Office. The next purpose is to track businesses that are in compliance of the laws in order to recognize them and possibly meet with the owners to discuss their training procedures and internal incentives given to the employees to obey these laws.

There are approximately 800 records currently entered in the database. The EUDL staff just received 30 pounds of records to be entered into the database. Once this information is entered the database will include all records from the start of the sting operation recording procedures. The EUDL staff has also been instructed to maintain a separate database for each county conducting sting operations in the State.

Work is continuing with the Clark County Business Licensing Office in conjunction with the Sting Operations Database management. The Office is currently using the database information to track businesses in non-compliance to be brought in front of the board for further action.

Goal 2: Review law enforcement strategies in addition to alcohol sale compliance checks that can be implemented to further deter youth from obtaining alcohol.

Staff from the EUDL Program have attended training workshops in order to understand alternative measures such as third party purchase control and party disbursement techniques. These workshops have included the Nevada State DUI Conference in Mesquite, the Texas State DUI Conference in Dallas, TX, Joining Forces in Las Vegas, and workshops in Reno and Las Vegas. The Las Vegas Workshop was coordinated by EUDL Staff.

A Third Party Intervention program was held during the Nationwide Alcohol Awareness month.

This program was basically the decoy/shoulder tap program where underage people attempt to have a stranger buy them alcohol. In Nevada this program was held during the week of April 23 and was called “Gotcha Day.” This program targeted third party purchasers of alcohol for underage individuals and involved the five area Metro Commands and Police Departments from Boulder City, Henderson, Mesquite, and North Las Vegas. Media coverage was extensive for this event. Since the Statewide program has been completed, the “Decoy/Shoulder Tap” program will continue with stings conducted against purchasers as well as underage buyers. Ms. Pidsosny has met with all agencies involved to discuss the program and helped develop a workable plan in this area. Stacie Paul developed the cards to be used during the shoulder tap stings. EUDL staff will be on hand during the implementation of the “Gotcha Day” activities.

A second event planned during Alcohol Awareness month was Easter Baskets filled with information about the underage drinking laws. These baskets were distributed to Clark County convenience stores during the week of April 9. These baskets were delivered by Stand Tall youth and police officers from Boulder City, Henderson, Mesquite, North Las Vegas, and Metro. Stand Tall staff coordinated the assembly of the baskets. The baskets included educational information from the Century Council and the Stand Tall program, as well as materials to be displayed in the business to deter sale to minors. A total of 100 baskets were distributed to Clark County convenience stores.

The kick-off activity scheduled during the National Alcohol Awareness month was the Enforcing Underage Drinking Laws Training titled “Controlled Party Dispersal.” The workshop was run by the Pacific Institute of Research and Evaluation in conjunction with OJJDP and hosted by UNLV’s EUDL Program at the Maxim Hotel. The workshop covered training officers to safely effectively break up an underage drinking party. This training ranged from the procedures to use during a controlled party dispersal to detecting parties in order to prevent them from starting. Some of the tactics discussed in party detection were as technical as the use of the internet to the basics of word of mouth. Included in this training was the dispersal of a “mock party” in the hotel attended by Stand Tall youth and TRC student employees. All of the local television news programs covered the training. There were 45 individuals from the law enforcement community and other agencies and organizations.

Another activity that the EUDL staff is involved in is the development of an alcohol educational program. This program is being developed by Officer John Schutt from the Northeast Area Command of Metro. The program will cover health related issues, DUI, traffic crashes, and the effects these have on family and friends. The program will be used in schools to further educate youth as to the problems associated with alcohol. Additionally, this will be part of the educational component of the Restorative Justice model being developed in Boulder City.

EUDL staff were actively involved in the planning of an “Every 15 Minutes” program held at Foothill High School in May. The main force behind this program was the Henderson Police Department and was funded primarily by the EUDL Program. This high impact program was to heighten awareness in the community of the issues surrounding underage drinking. The Henderson Police Department hopes to conduct an “Every 15 Minutes” program every semester, with this

serving as the test case. The EUDL staff conducted the retreat portion of the program for the 20 students directly involved. At the Friday assembly the EUDL staff was on hand to assist with the program, to distribute incentive items, and to answer questions about the Stand Tall, Don't Fall Program.

The sting operations are continuing. The law enforcement community is reporting their activity to the TRC for inclusion in the Database. The "sting operations" are now currently including casinos. This is a problem area that needs to be addressed. Currently there are approximately 800 records in the "Sting Operation" database. This database has been used to provide information to the Clark County Business Licensing Office and other area businesses such as the 7-11. The contract with Metro, Boulder City, Henderson, Mesquite, and North Las Vegas have been renewed so that these police departments can continue their sting operations.

Planning efforts are underway to attend a Alcohol Enforcement workshop in St. Louis, MO in September hosted by OJJDP. Ms. Pidosny recruited the following local law enforcement officers to attend the conference; Bob Kroll (DTAC), Jeremy James (SEAC), John Schutt (NEAC), Paul Daly (BCPD), Dave Kerwin (HPD). Fritz Reese (CCFYS) and Kiki Rogers from Nevada Beverage are also attending the conference. Planning efforts are also underway to attend the National Crime Prevention Convention in Washington, D.C. in October.

Goal 3: Support innovative prevention efforts created by youth.

Youth teams from most of the six local communities were in attendance at the Second Annual Stand Tall Youth Conference held at UNLV in July 2000. Teams have been sent a mini-grant application to access up to \$ 1,500.00 from the grant established to support their prevention efforts. Successful grant ideas will be shared with the local law enforcement agencies in those areas to encourage their support as needed. Mini-grant application are reviewed by the EUDL staff and those approved are given grant funds. To date there have been nine applications received and eight approved for funding. The programs that were funded through the mini-grants process include:

1. Virgin Valley Jr/Sr High (Alcohol Education Week)
2. Las Vegas Housing Authority (Sports Builds Positive Youth)
3. Indian Springs High Schools (Red Ribbon Week)
4. Central Lyon Parks and Recreations (Dayton Safe and Sober Grad Night)
5. Join Together of Northern Nevada (Alcohol Education Awareness)
6. Partnership for Community Resources (Middle School Alcohol Awareness Education Week)
7. Central Lyon youth Connection (Brochure and Poster Awareness for the IceBox)
8. Henderson Police Department (Every 15 Minutes)

The one mini-grant application that was not approved was from Foothill High School to provide additional funding for the "Every 15 Minutes" program held by the Henderson Police Department..

In addition to funding student-based ideas and programs, the EUDL staff has developed a statewide

plan of action for the upcoming year. This plan will include monthly student poster competitions, monthly activities, and monthly themes.

The 2001 Stand Tall Leadership Camp was held at UNLV in July 2001. The camp was held July 9 through 13. These planning efforts included but were not limited to the following:

1. Recruit camp staff (26 facilitators signed and 4 trainers signed)
2. Recruit camp staff (nurse, photographer, counselor, etc.)
 - a. Nurse (Michelle Dunlap)
 - b. Photographer (Patricia Breen)
 - c. Counselor (Mary Vaughn)
 - d. Grunt worker (Walt Vodrazka, Jr.)
3. Obtain speakers (Completed, 3 General Session speakers))
4. Recruit technical session leaders (Completed, 12 speakers at 17 sessions)
5. Catering arrangements
6. Housing arrangements
7. Meeting rooms and assignments
8. Fun night arrangements and reservations
9. Arranged facilitator training (June 26-27 in Reno)
10. Registration activities
11. Recruit public officials for town hall meeting (6 attended)
12. Recruit campers (102 registered)

EUDL staff attended two of the back to school fairs held at Clark county malls in August (Meadows - August 11-12, Boulevard - August 18-19). EUDL also attended National Night Out at the Northwest Area Command on August 7. Ms. Pidsosny also spoke to the Boulder City City Council meeting to discuss the diversion program. Ms. Pidsosny also attends the monthly COP meeting.

The Stand Tall, Don't Fall program is no longer maintained by the TRC. The operations of the Stand Tall, Don't Fall program by the TRC ended in September 2001. TRC staff are still active in the activities of the Stand Tall, Don't Fall program and are involved in the planning of the 2002 Leadership Camp.

Pedestrian and Bicycle Safety Program

The Pedestrian and Bicycle Safety Program was established in March using funding provided by the Nevada Office of Traffic Safety. This program was instituted in order to reduce the number of pedestrian and bicycle crashes in Clark County. The objectives of this program are discussed below.

Objectives

- 1. Work with local public works departments and the Regional Transportation Commission of Southern Nevada (RTC) to develop a plan for implementing innovative pedestrian facility**

improvement. Efforts include identification of problems and concerns, development of remedial measures and strategies, and the implementation of appropriate countermeasures.

2. Work with local public works departments and the RTC to establish unified plan for non-motorized transportation in Clark County with an ultimate goal of developing a “multi-modal” system.

3. Research latest trends in facility designs being tested and pursue including Clark County in test group(s).

The first three objectives are met within the frame work of the following projects:

Alternative Transportation Mode Master Plan.

FHWA Pedestrian Safety Plan.

The Program Coordinator has been a working member of the Alternative Transportation Mode Master Plan for Clark County. The project which is headed by the RTC has identified the need to provide a non-motorized network of facilities within the Las Vegas Valley to promote alternative modes of travel. The Alternative Mode Study is in the final stage of developing the Conceptual Master Plan.

The Federal Highway Administration Pedestrian Safety Program is discussed in detail in the next section.

4. Work with the land development community to develop “pedestrian and bicycle friendly” communities. Efforts in this regard include developing working relationships with the local municipal jurisdictions and with the RTC.

5. Develop and submit grant applications to obtain additional support (financial and “in-kind”) for pedestrian and bicycle research programs through the Transportation Research Center at UNLV to focus on Clark County. This includes efforts to establish financial support from other sources such as federal, state, and local agencies and private sector organizations to help continue the program after the initial three years of funding. Examples of such sources include the RTC, County, City, North Las Vegas, Boulder City, and Henderson.

The Federal Highway Administration Pedestrian Safety Program is discussed in detail in the next section.

6. Establish a calendar to help facilitate conducting and coordinating relevant events and courses focusing on pedestrian and bicycle safety issues on a monthly basis; Provide support to recruit participants for such events. Examples of such community-wide activities include education campaigns through events, schools and civic groups, “Walk Our Children to School Day,” and the OTS bike and pedestrian courses etc. Such efforts include working with federal, state, local, private, and not-for-profit organizations.

October started off on the right foot. The 2nd of October was International Walk to School Day. Across the country and around the world parents were walking their children to school in a show of solidarity to have parents get out of their cars, get some exercise, stop polluting the air, and show our children there are other modes of transportation.

In Clark County 18 elementary and two middle schools participated. An added incentive to this program was a grant received by the Department of Education from the Center for Disease Control. The grant enabled any school that participated to receive \$2000 dollars for their food services program, this would help defer the cost of the parent-student breakfast that was served the morning of the walk.

The RTC's sponsored BikeFest 2001 located at Wet n' Wild. A 100-mile bicycle ride was planned with a bike rodeo. Safe Community Partnership participated by distributing safety information and Halloween reflective stickers. Prior to the day of the event the Program Coordinator assisted the BikeFest Coordinator in effort to secure the success of the bike rodeo.

7. Act as "clearing house" for pedestrian and bicycle safety education issues in Clark County. Efforts include developing appropriate brochures and literature, and maintaining a collection of relevant materials.

The Program Coordinator and the Director for SCP partnered with Anderson Dairy, Smith's Food and Drug and the Office of Traffic Safety to deliver a Halloween Safety message in the month of October.

As in past years SCP has asked Anderson Dairy to place a safety message on it's side panel of the milk carton. For this past Halloween the SALLY mascot was costumed as a witch with the safety message, "Be safety Be seen this Halloween, Please remember to wear bright colors, use reflective accessories, and do not dart into streets." This carton coincided with the week of Halloween.

Two weekends prior to Halloween, the Program Coordinator, the Director of SCP and the mascot SALLY were at a new Smith's Food and Drug stores promoting pedestrian safety and giving incentive items to the community. Anderson's Dairy was also giving away complimentary ice cream. Anderson Dairy asked the Program Director and SCP to accompany them to the grand opening of an Albertson's grocery store on October 30th. This was a great opportunity to again get the message out in the community about safety on Halloween.

8. Work with local law enforcement entities on pedestrian education training and pedestrian safety enforcement, to include motorist education.

The Program Coordinator and members of the Kimley-Horn & Associates are creating a court diversion program for the County. The increasing number of cyclists and the Las Vegas Metropolitan Police Department announcement of enforcing pedestrian moving violations called for such a program.

The program will give the violator a choice, he or she will have the opportunity to pay the fine or attend a Traffic Safety Education Class. This class will be set up in the same way as the motor-vehicle education class is organized. The Traffic Safety Education Class will have pedestrian, cyclists and motor-vehicle drivers in the same class. These vehicle drivers will have had conflicts with either pedestrians or cyclists. This diversion program is in the beginning planning stages and will take a few months to come to fruition.

9. Work with local media outlets to garner recognition of pedestrian and bicycle safety concerns and improvements in Clark County.

The TRC planned a press conference on November 5th, to announce the award of the FHWA grant. The receipt of the media alert to all news stations and papers generated a lot of excitement and attention. Interviews of the Director of Safe Community Partnership and the Program Coordinator with media news crew's were held prior to the press conference this was an opportunity discuss the grant and to draw attention to the pedestrian safety problem in the Clark County. These news pieces were played a number of times through out the evening and weekend news prior to the official press conference.

10. Attend monthly SCP meeting and establish subcommittee to support bicycle and pedestrian program.

The Program Coordinator has and is attending SCP meetings. Plans to start a subcommittee at the next SCP meeting in February. Cindy Gorham, a member of SCP, from the UMC Trauma Center has also been diligently working in the Clark County School District to educate students about bike safety. The Program Coordinator plans on working closely with her when establishing the subcommittee. The Program Coordinator would like to have a member of the Las Vegas Valley Bicycle Club to join the SCP and subcommittee.

11. Work with public broadcasters to develop and distribute at least two pedestrian safety messages in the form of Public Service Announcements (PSAs) and one bicycle safety message (as a PSA). Work with the OTS public relations firm to support their ongoing safety messages as they pertain to this program.

As of this time a pedestrian public service announcement is in the planning stages.

12. Submit quarterly reports describing the progress on each objective, activity and evaluation criteria on January 15, April 15, July 15, October 15 of each project year to the Office of Traffic Safety. These reports will also include the dollar value of in-kind contributions to the project.

The reports have been submitted.

Future Activities

The next quarter the Program Coordinator intends on achieving:

- The Pedestrian and Bicycling Diversion Court Program working in the court system.
- Meet and have a working relationship with the Southern Nevada Home Builders Association.
- Meet and have a working relationship with Auto dealerships in Southern Nevada.
- Have written and mailed letters out to schools for enrolment to the Instructor Course - Nevada Elementary Traffic Safety Program.
- Attend National Bike Summit in Washington, D.C.
- Establish Outreach and Education program for the Regional Transportation Commission's Alternative Mode Study.

Federal Highway Administration Pedestrian Safety Program

In May the TRC answered a Request for Applications to the United State Department of Transportation Federal Highway Administration for the Pedestrian Safety Engineering and Intelligent Transportation System-Based Countermeasures Program For Reducing Pedestrian Fatalities, Injuries Conflicts and other Surrogate Measures. In October 2001 the TRC was one of two recipients nationwide to be awarded the grant.

The goal of the program is to improve pedestrian safety and walkability within the urban boundaries of the Las Vegas Metropolitan area. This is to be based on identifying high risk pedestrian incident target areas and populations, selecting and implementing safety engineering and Intelligent Transportation System based countermeasures, and analyzing the effectiveness of treatments for various target groups and causal factors.

The FHWA Pedestrian Safety Program, as it is now referred to, is a two-phase program. Upon completion and approval of Phase One the TRC will be authorized to commence Phase Two. Phase One, which this report will summarize, consists of the following tasks:

1. Assemble a team consisting of traditional and non-traditional partners.
2. Problem identification, countermeasure selection, and outreach and an awareness campaign.
3. Participate in meetings, other presentations and briefings.
4. Prepare professional journal paper(s).

Upon receipt of the letter of notification of the award and copies of the agreement between FHWA and UNLV, an organizational meeting involving key project personnel was held to review the agreement and to discuss the work plan for the program in order to address the requirements of the agreement. The following individuals participated in the meeting: Shashi Nambisan, the program's Principal Investigator, Erin Breen, Safe Community Partnership Coordinator, Maggie Saunders, Pedestrian and Bicycle Safety Program Coordinator (all of whom are from UNLV TRC); Rich Romer, the Senior Engineer on the program (from Orth-Rodgers & Associates, Inc.); and Sue Newberry (from Community Partners, LLP). The program's tasks and sub-tasks were discussed and a schedule was developed for the program's activities.

Task 1: Assemble a team consisting of traditional and non-traditional partners

This task consists of formalizing the commitments previously obtained from various traditional and non-traditional partners. Partners include those providing financial support (matching funds) and those providing "in-kind" support. Some partners provide both financial and "in-kind support.

Stakeholders:

Regional Transportation Commission of Southern Nevada (RTC)
Clark County Department of Public Works (CCDPW)
City of Las Vegas Department of Public Works (CLVDPW)
Nevada Department of Transportation (NDOT)
Nevada Office of Traffic Safety (OTS)

Non-traditional partners:

Safe Community Partnership
Las Vegas Metropolitan Police Department
University Medical Center Trauma Center
Clark County Health District
Clark County School District Partnership Office
Smith's Food and Drug Store

With the TRC acting as lead, the project initiated efforts on the program by convening a meeting of key program personnel. Organizations who had committed financial matches have been notified of the award and execution of the agreement between FHWA and UNLV. Matching funds have been received from all the stakeholders. Renewed letters of support have been obtained from these organizations and other partners.

Organizations who promised data were contacted and requested to provide data pertaining to crashes in the study area. UMC Trauma, provided five years of injury data. NDOT provided five years of vehicle crash data. LVMPD, provided 16 months of pedestrian crash data. At the time of this report the remaining data from LVMPD, is not easily accessible. Captain Bilyeu, Tracy Lang, Director of Police Records, and Keith Justus, Crime Analyst II are all trying to retrieve this data for the program. The importance of this data is relevant to Task 2.

Task 2: Problem identification, countermeasure selection, and outreach and awareness campaign.

The programs completion and success hinges on the collection and analyses of the crash data. Two tools provided by the FHWA are needed to be used in the program. Zonal analyses will be performed using the “Zone Guide for Pedestrian Safety”. Arc/Info, a Geographic Information System (GIS) program, will be used to facilitate such analysis. Pedestrian and Bicycle Crash Analyses Tool (PBCAT) will be utilized in the analyses and to develop countermeasures. Input will also be sought from members of the Executive Advisory Committee (EAC) and “neighborhood groups” to identify problems. This process will serve as the basis to select zones for further analysis and to identify potential countermeasures.

Monthly meetings of the EAC have been held to discuss the program’s inception and approach, to solicit input and guidance, and to keep the stakeholders informed of the programs progress. The EAC has had meetings in October and December. The November meeting coincided with press conference to announce the Program. Attendees included various stakeholders and partners including elected officials, agency managers and technical staff, and the media. The press conference was held on November 5, and was included in the ABC and CBS news programs.

Nambisan and Romer attended a project meeting in Washington, D.C. on November 19, 2001. The Program’s project team and proposed approach was presented. In attendance at the meeting in addition to FHWA staff was representatives from the University of Florida team, the second awardee for this grant. The University of Florida team asked for and received an extension for their Phase One schedule. Since the FHWA has asked the TRC team to extend their Phase One schedule to match the Florida schedule, Phase One will now end in June, 2002.

In addition to the press conference, the Program has received significant coverage in the print, radio and television media. Erin Breen hosted an hour long program on local AM 970 on November 7 that focused on the FHWA agreement with UNLV to address pedestrian safety issues in the region. Team members have also spoken to various groups in the community on the program. Nambisan spoke at the November meeting of the Nevada Chapter of the Institute of Transportation Engineers (ITE) and Romer spoke at the December meeting of the UNLV Student chapter of ITE.

After the meeting with FHWA, Nambisan was asked to speak at the RTC’s Alternative Transportation Mode Master Plan Working Group to be held in 2002. The Cities of Henderson and North Las Vegas both expressed interest in participating in the Program. Meetings were held with both entities to explain the Program and offer a chance to join the Stakeholders. The City of Henderson has declined to become a Stakeholder, but has expressed an interest in participating in the EAC. The Team is still awaiting a response from the City of North Las Vegas.

At this time the Task Schedule has been revised to reflect the new completion date. Data collection and analysis is being mapped and the next task will be to develop zones. A third team, the City of San Francisco, has been chosen to participate in the FHWA program.

SUMMARY OF OTHER ACTIVITIES AND OUTCOMES (listed in reverse chronological order) A summary of the expenditures for these projects is shown in the Appendix.

1. Publications

Peer Reviewed Publications

- Pulugurtha, Srinivas S. and Shashi S. Nambisan (2001) A Decision Support Tool for Airline Yield Management Using Genetic Algorithms. Accepted for Publication in the Special Issue on Computing and Information Technologies in Transportation Engineering, Journal of Computer-Aided Civil & Infrastructure Engineering (Pending final revision).
- Rowe, Curtis, Mohamed Kaseko, and Kenneth Ackeret "Recalibration Of Trip Generation Model For Las Vegas Hotel/Casinos", Forthcoming in the ITE Journal, 2002.
- Neumann, Edward S., Measurement of Socket Discomfort - Part I: Pressure Sensation. Journal of Prosthetics and Orthotics, Vol 13, No 4, December 2001, pp. 99-110.
- Neumann, Edward S., Measurement of Socket Discomfort - Part II: Signal Detection. Journal of Prosthetics and Orthotics, Vol 13, No 8, December 2001, pp. 111-121..
- Nambisan, Shashi S. and Srinivas S. Pulugurtha (2001) Estimating Time-Dependent O-D Trip Tables with Trips Originating in Multiple Time Slices. Transportation Research Record 1752, Journal of Transportation Research Board, National Research Council, Washington, D. C., p(133-139).
- Pulugurtha, Srinivas S. and Shashi S. Nambisan (2001) Using Genetic Algorithms to Evaluate Aircraft Ground Holding Problem in Real-Time. ASCE Journal of Transportation Engineering, Vol. 127, No. 5, September/October, p(442-448).
- Pulugurtha, Srinivas S. and Shashi S. Nambisan (2001) Using Genetic Algorithms to Evaluate Aircraft Ground Holding Problem Under Static Conditions. ASCE Journal of Transportation Engineering, Vol. 127, No. 5, September/October, p(433-441).
- Nambisan, Shashi S. and Srinivas S. Pulugurtha (2001) Estimating Time-Dependent O-D Trip tables with Trips Originating in Multiple Time Slices. (Paper Number 01-2610). CD-ROM Pre-print, 80th Annual Transportation Research Board Meeting, Washington, DC, January.
- Pulugurtha, Srinivas S. and Shashi S. Nambisan (2001) Route Characterization for Risk Analysis (Paper Number 01-3022). CD-ROM Pre-print, 80th Annual Transportation Research Board Meeting, Washington, DC, January.
- Pulugurtha, S. S., Shashi S. Nambisan, and Sujana M. Pulugurtha (2001) Analysis of Crashes by Traffic Control Device in Clark County, Nevada (Paper Number 01-3399). CD-ROM Pre-print, 80th Annual Transportation Research Board Meeting, Washington, DC, January.
- Pulugurtha, Srinivas S. and Shashi S. Nambisan (2002) Investigation of Travel Demand Patterns for Use in Traveler Information Systems (Paper Number 02-2255). Accepted for publication, CD-ROM Pre-print, 81st Annual Transportation Research Board Meeting, Washington, DC, January.

Conference Publications (based on peer reviewed abstracts or extended abstracts)

Technical Reports

- Nambisan, Shashi S. and Walter C. Vodrazka, Jr. *Bicycle Helmet Use Survey: 2001*. Prepared for the Nevada Office of Traffic Safety, Carson City, Transportation Research Center, Howard R. Hughes College of Engineering, University of Nevada, Las Vegas, UNLV/TRC/RR-00/05, December 2001.
- Nambisan, Shashi S. and Walter C. Vodrazka, Jr. *Child Safety Seat Use Survey: 2001*. Prepared for the Nevada Office of Traffic Safety, Carson City, Transportation Research Center, Howard R. Hughes College of Engineering, University of Nevada, Las Vegas, UNLV/TRC/RR-00/05, November 2001.
- Nambisan, Shashi S. and Walter C. Vodrazka, Jr. *Seat Belt Use Survey: 2001*. Prepared for the Nevada Office of Traffic Safety, Carson City, Transportation Research Center, Howard R. Hughes College of Engineering, University of Nevada, Las Vegas, UNLV/TRC/RR-00/05, November 2001.
- Srinivas Pulugurtha and Shashi Nambisan. Final report on Development of Urban Transportation Congestion Management and Mitigation Measures (UNLV/TRC/RR-01/02), March 2001.
- Srinivas Pulugurtha, Shashi Nambisan, Walter Vodrazka Jr. and Jon Becker. Final report on Analyses of Spent Nuclear Fuel and High Level Radioactive Waste Transportation by Highway (UNLV/TRC/00-02), January 2001.
- Srinivas Pulugurtha, Shashi Nambisan, and Jon Becker. Final report on Analyses of Spent Nuclear Fuel and High Level Radioactive Waste Transportation by Rail (UNLV/TRC/00-06), January 2001.
- Mohamed Kaseko and Walt Vodrazka, Jr., Evaluation of Pavement Marking Materials Performance and Specifications for Clark County Roads, Final Project Report prepared for the Regional Transportation Commission of Southern Nevada, January 2001.

In addition, a number of periodic progress reports, monthly reports, and quarterly reports were submitted for the various projects and programs undertaken by the TRC.

Media Highlights

Las Vegas Review Journal, Local Section. Safe Community Partnership was featured in two front page articles on pedestrian safety. There was a picture for Walk Our Children to School Day and an article and picture for the “You Drink and Drive, You Lose” event in December. Twice during the year “The Road Warrior” column was on pedestrian safety and featured comments from Safe Community Partnership director, Erin Breen. In addition there were five times during the year when quotes from Safe Communities as part of the TRC were quoted in the column which is written by Michael Squires.

Las Vegas Sun, Local Section: Twice during the year articles were written about pedestrian safety featuring Safe Communities as part of the TRC. There was an in-depth article written about a conference held in the Engineering Complex for local transportation planners and bike and pedestrian advocates, presented by Michael Ronkin, as part of the Safe Communities Bike and

Pedestrian Safety program, the article featured pictures of various locations on campus, or directly adjacent to campus.

Henderson Home News, Featured stories and pictures for Walk Our Children to School Day.

Local Television News Programs. Several appearances on the morning news programs plus numerous items during afternoon and evening news shows. Topics included the Safe Communities Partnership Activities, Pedestrian Safety Programs, Alcohol Awareness and School Safety programs. Erin Breen was the guest on “Day One Las Vegas” twice during the year on channels 8, 1, and 39 and was the guest on “Perfectly Frank” on K-NEWS Radio four times during the year. The Safe Community Partnership and the TRC were featured numerous times on all news outlets in Clark County during the year, including Telemundo, the Spanish station.

Appearance on TV Show, *On the Move*, produced by the Regional Transportation Commission of Southern Nevada. Kaseko was involved with a segment concerning the Pavement Marking Evaluation project

2. Presentations and Conference Activities

Conferences and Workshops Hosted

2001 Fall Transportation Conference. In its ninth year, this conference is jointly sponsored by TRC and the local chapters of the ASCE and ITE. Moyer Student Union, Las Vegas, NV. Over 150 individuals from Nevada and across the US participated in this conference. Moyer Student Union, UNLV Campus, Las Vegas, NV. September 20-21, 2001.

SIDRA Workshop, co-hosted with the City of Las Vegas, Las Vegas, NV, August 2001.

Stand Tall, Don't Fall Leadership Camp. Initial Leadership Camp held in Clark County. Over 250 individuals from high schools and other organizations attended the camp held on the UNLV Campus. Las Vegas, NV. July 9-13, 2001.

Presentations, Session Moderations, and Posters (Listed in reverse chronological order; if all the authors did not make the presentation, the presenter's name is underlined)

Shashi Nambisan, “FHWA Pedestrian Safety Program: A Public / Private Partnership, ITE Nevada Chapter Meeting, Las Vegas, NV, November 2001.

Mukund Dangeti, Mohamed Kaseko, Srinivas 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 2001.

Edward S. Neumann, Presentation: Quantification of Discomfort During Socket Fitting - An Application of Psychophysical theory and Measurement. 10th World Congress of the International society for Prosthetics and Orthotics, Glasgow, Scotland, July 2001.

Walter Vodrazka, Jr., “Fund Raising Activities that your Group Can Do.” Stand Tall, Don't Fall Leadership Conference, Las Vegas, NV, July 2001.

Walter C. Vodrazka, Sr. Session Organizer and Chair, American Society of Engineering Educators Annual Meeting, Albuquerque, NM, June 2001

Walter C. Vodrazka, Sr. Demonstration of a Network Toy during the Civil Engineering Rap Session, American Society of Engineering Educators, Albuquerque, NM, June 2001.

Edward S. Neumann, Moderator Session 368, New Transit Technologies, Transportation Research Board, Washington, DC, January 2001.

Daine Pidsosny, Stacie Paul, and Walt Vodrazka, Jr., *Stand Tall, Don't Fall Introduction*, VoTech High School Student Council, January 2001.

Srinivas S. Pulugurtha, and Shashi S. Nambisan. Route Characterization for Risk Analysis (Paper Number 01-3022, Session Number 196). 80th Annual Transportation Research Board Meeting, Washington, DC, January 2001.

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). 80th Annual Transportation Research Board Meeting, Washington, DC, January 2001

Shashi S. Nambisan, and Srinivas 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.

3. Sponsored Research Projects and Grants Activities (listed in reverse chronological order)

Pedestrian Safety Study: 2001 - 2002. Sponsored by the Regional Transportation Commission of Southern Nevada, Las Vegas, NV, November 2001 through June 2002, (PI:Nambisan) (Contract amount \$ 32,159).

Pedestrian Safety Enforcement Operations in Clark County. Sponsored by the Nevada Office of Traffic Safety, Department of Motor Vehicles and Public Safety, Carson City, NV September 2001 through September 2004 (PI Nambisan, Co-PI Breen) (Contract amount \$ 137,327).

Pedestrian Safety Engineering and Intelligent Transportation System-based Countermeasures Program for Reducing Pedestrian Fatalities, Injuries, Conflicts, and Other Surrogate Measures. Sponsored by the US Department of Transportation, Federal Highway Administration, Washington, DC, September 2001 through November 2005 (PI Nambisan) (Contract amount Phase I \$ 173,139, Phase II \$ 700,000).

Matching Funds for FHWA Pedestrian Safety Program. Sponsored by the Nevada Office of Traffic Safety, Department of Motor Vehicles and Public Safety, Carson City, NV, September 2001 through November 2005 (PI Nambisan, Co-PI Breen, Co-PI Saunders) (Contract amount \$50,055).

Matching Funds for FHWA Pedestrian Safety Program. Sponsored by the Regional Transportation Commission of Southern Nevada, Las Vegas, NV, September 2001 through September 2002 (PI Nambisan, Co-PI Breen, Co-PI Saunders) (Contract amount \$10,000).

Matching Funds for FHWA Pedestrian Safety Program. Sponsored by the Clark County Department of Public Works, Las Vegas, NV, September 2001 through September 2002 (PI Nambisan, Co-PI Breen, Co-PI Saunders) (Contract amount \$5,000).

Matching Funds for FHWA Pedestrian Safety Program. Sponsored by the Nevada Department of Transportation, Carson City, NV, September 2001 through September 2002 (PI Nambisan,

- Co-PI Breen, Co-PI Saunders) (Contract amount \$10,000).
- Matching Funds for FHWA Pedestrian Safety Program. Sponsored by the City of Las Vegas Department of Public Works, Las Vegas, NV, September 2001 through September 2002 (PI Nambisan, Co-PI Breen, Co-PI Saunders) (Contract amount \$10,000).
- Child Safety Seat Use, Seat Belt Use, and Bicycle Helmet Use Survey. Sponsored by the Nevada Office of Traffic Safety, Department of Motor Vehicles and Public Safety, Carson City, NV, September 2001 through September 2004 (PI Nambisan, CO-PI Vodrazka, Jr.) (Contract amount \$ 245,352).
- Safe Community Partnership - FY 2002. Sponsored by the Nevada Office of Traffic Safety, Department of Motor Vehicles and Public Safety, Carson City, NV, September 2001 through September 2002 (PI Nambisan, Co-PI Breen) (Contract amount \$ 139,968).
- Web Server Maintenance and Upgrade. Sponsored by Clark County Department of Public Works, Las Vegas, NV, April 2001 through March 2002 (PI Nambisan, Co-PI Pulugurtha) (Contract amount \$ 24,834).
- Update Internet Mapping Project Data. Sponsored by Clark County Department of Public Works, Las Vegas, NV, April 2001 through March 2002 (PI Nambisan, Co-PI Pulugurtha) (Contract amount \$ 24,866).
- Conversion of Patent Easements. Sponsored by Clark County Department of Public Works, Las Vegas, NV, April 2001 through September 2001 (PI Nambisan, Co-PI Pulugurtha) (Contract amount \$ 24,954).
- Development of a Website for Unpaved Roads. Sponsored by Clark County Department of Public Works, Las Vegas, NV, May 2001 through April 2002 (PI Nambisan, Co-PI Pulugurtha) (Contract amount \$ 24,039).
- Development of a Roadway Incident Detection System and Database for the Las Vegas Freeway and Arterial System of Transportation (FAST). UNLV Applied Research Initiatives Program, Las Vegas, NV, May 2001 through April 2002 (PI Nambisan, Co-PI Kaseko) (Contract amount \$ 59,891).
- Development of a Roadway Incident Detection System and Database for the Las Vegas Freeway and Arterial System of Transportation (FAST). Kimley Horn and Associates, Inc., Las Vegas, NV, May 2001 through April 2002 (PI Nambisan, Co-PI Kaseko) (Contract amount \$ 59,902).
- Comparative Evaluation of Analysis and Simulation Software for Traffic Operations. Sponsored by the Nevada Department of Transportation, Carson City, NV, March 2001 through June 2002 (PI Kaseko, Co-PI Nambisan) (Contract amount \$ 83,529).
- Pedestrian and Bicycle Safety Program for Clark County. Sponsored by the Nevada Office of Traffic Safety, Department of Motor Vehicles and Public Safety, Carson City, NV, March 2001 through September 2003 (PI Nambisan, Co-PI Breen, Co-PI Saunders) (Contract amount \$ 266,552).
- Child Safety Seat Use Survey. Sponsored by the Office of Traffic Safety, Department of Motor Vehicles and Public Safety, Carson City, Nevada. January 2001 through September 2002. (PI: Nambisan) (Contract amount \$ 76,000).
- Development of Urban Transportation Congestion Management and Mitigation Measures. Sponsored by the Regional Transportation Commission of Southern Nevada, Las Vegas, NV, November 2000 through March 2001 (PI Nambisan) (Contract amount \$ 35,238).

- Underage DUI and Traffic Safety: A Research and Education Program. UNLV Applied Research Initiatives Program, Las Vegas, NV. July 2000 through Present. (PI: Nambisan; Co- PI: Breen) (Contract amount \$ 48,655).
- Analyses of Spent Nuclear Fuel and High Level Radioactive Waste Transportation by Rail. Nevada Agency for Nuclear Project, Carson, City, NV. July 2000 though January 2001. (PI: Nambisan) (Contract amount \$ 50,000).
- Underage DUI and Traffic Safety: A Research and Education Program - Phase II. Nevada State Juvenile Justice Commission, Carson City, NV. July 2000 through September 2001. (PI: Nambisan; Co- PI: Breen) (Contract amount \$ 246,573).
- Underage DUI and Traffic Safety: A Research and Education Program - Phase I. Nevada State Juvenile Justice Commission, Carson City, NV. June 2000 though September 2001. (PI: Nambisan; Co- PI: Breen) (Contract amount \$ 140,427).
- Analyses of Spent Nuclear Fuel and High Level Radioactive Waste Transportation by Highway. Nevada Agency for Nuclear Project, Carson, City, NV. April 2000 though January 2001. (PI: Nambisan) (Contract amount \$ 50,000).
- Joining Forces - A Multi-jurisdictional Traffic Law Enforcement Program. Sponsored by the Nevada Office of Traffic Safety, Department of Motor Vehicles and Public Safety, Carson City, NV, February 2000 through September 2001 (PI Nambisan, Co-PI Breen) (Contract amount \$ 17,820).
- Internet Mapping/ Applications System Maintenance and Management. Sponsored by Clark County Department of Public Works, Las Vegas, Nevada. February 2000 though January 2001. (PI: Nambisan) Contract amount \$ 13,000).
- Engineering Project Management System for Clark County Department of Public Works. Sponsored by the Applied Research Initiatives Program, University of Nevada Las Vegas, Las Vegas, Nevada. February 2000 though June 2001. (PI: Nambisan; co-PI: Pulugurtha) (Contract amount \$ 34,974).
- Spatial Index System for Project Web Management. Sponsored by Clark County Department of Public Works, Las Vegas, Nevada. February 2000 though January 2001. (PI: Nambisan; co-PI: Pulugurtha) (Contract amount \$ 25,000).
- Internet Project Web Management System. Sponsored by Holman's of Nevada, Inc., Las Vegas, Nevada. February 2000 though September 2001. (PI: Nambisan; co-PI: Pulugurtha) (Contract amount \$ 14,985).
- Grant for Research on Transportation Risk Analysis. Grant from the TRW Foundation, Cleveland, OH. December 1999. (PI: Nambisan; Co-PI: Vodrazka, Jr.). This grant is to support research and development activities related to evaluating transportation risks for nuclear waste transportation (Contract amount \$ 30,000).
- Safe Communities Coalition/Partnership. Sponsored by the Nevada Office of Traffic Safety. October 1998 to September 1999. (PI: Neuman). October 1999 through September 2001 Extension, (PI: Nambisan) Erin Breen is the primary individual working on the project that seeks to develop educational, enforcement and engineering strategies to enhance safety on the transportation network in Clark County. She is assisted, as needed, by various undergraduate and graduate students, and by other professional staff. (Contract amount FY 2000 \$ 117,034.89; FY2001 \$ 105,000).
- Evaluation of Pavement Marking Materials Performance and Specifications for Clark County

Roads. Sponsored by the Clark County Regional Transportation Commission, Las Vegas and the University of Nevada Las Vegas, Las Vegas, NV. April 1998 - January 2001. (PI - Kaseko; Co-PI: Nambisan). The objective of this project is to evaluate the performance of various pavement markers and markings that involves vendors, contractors and the public agencies. The evaluation will be based on field measurements as well as laboratory tests (contract amount \$ 240,341).

4. Proposals Submitted - with outcomes pending or those which were declined (these are in addition to those listed in Section 3).

Evaluation of Flexible Delineator Guideposts. Sponsored by the Nevada Department of Transportation, Carson City, NV, September 2001 (PI Kaseko, Co-PI Vodrazka, Jr.) (proposed amount \$ 75,000) (Contract Pending).

Development of Urban Transportation Congestion Management and Mitigation Measures. Performed for the Regional Transportation Commission of Southern Nevada, Sponsored by Orth, Rodgers & Associates, Inc., Las Vegas, NV, July 2001 (PI: Nambisan, Co-PI Pulugurtha) (proposed amount \$ 40,000) (Contract Pending).

Las Vegas Metropolitan Area Transit Mode Option Study. Sponsored by Parsons Transportation Group, Las Vegas, NV, July 2001 (PI Nambisan, Co-PI Pulugurtha) (proposed amount \$ 35,000) (Contract Pending).

Development of an Integrated Traveler Information Systems Framework - Envision 2020. Sponsored by the National Science Foundation, June 2001 (PI Nambisan) (proposed amount \$ 99,435).

Developing Case-based, Collaborative, and Asynchronous Learning Courseware for a Transportation Engineering Course. Sponsored by the National Science Foundation, June 2001 (PI Nambisan, Co-PI Kendall Hartley) (proposed amount \$ 73,919)

Evaluation of Technologies to Enhance Pedestrian Safety. Sponsored by the Nevada Department of Transportation, Carson City, NV, June 2001 (PI Nambisan) (proposed amount \$ 99,992).

Pedestrian Safety Sting Operations. Sponsored by the Nevada Office of Traffic Safety, Department of Motor Vehicles and Public Safety, Carson City, NV, May 2001 (PI Nambisan, Co-PI Breen, Co-PI Saunders) (proposed amount \$ 140,140) (Contract Pending).

5. Professional Society Activities and Public Service (listed by individual)

Erin Breen

Member, American Public Works Association.

Member, National Association of Female Executives.

Member, Las Vegas Chamber of Commerce.

Member, International Association of Business Communicators.

Member, Board of Directors, Safe Kids Coalition.

Member, Board of Directors, Las Vegas Little Theater.

Member, Board of Directors, Community Food Bank.

Mohamed S. Kaseko

American Society of Civil Engineers (ASCE).

Member, Transportation Committee, ASCE Southern Nevada Chapter: Activities included:
Organizing the 2000 Annual Fall Transportation Conference, jointly sponsored by ASCE, ITE, ITS Nevada, and TRC.

Boy Scout Engineering Merit Badge/Girl Scout Engineering Activity Badge Workshop Session
Leader and Planning Committee

Institute of Transportation Engineers (ITE)

Member, Scholarship Committee, Nevada Chapter.

Faculty Advisor, UNLV Student Chapter.

American Society of Engineering Education (ASEE)

Member

ITS – America, Nevada Chapter

Member

University of Nevada, Las Vegas

Member, University Admissions Committee.

Member, Program Review Committee

UNLV Howard R. Hughes College of Engineering

Member, Search Committee, Director of Advising Center, College of Engineering.

Shashi Sathisan Nambisan

Journal of Advanced Transportation

Editorial and Advisory Board

American Society of Civil Engineers Air Transport Division

Past-Chair, Environmental and Planning Committee.

Member, Conference Technical Program Committee & Co-Editor of the Proceedings, 7th International Conference on the Applications of Advanced Technologies in Transportation, to be held in Boston, MA in August 2002.

American Society of Civil Engineers Urban Planning and Development Division

Member, Education Committee.

American Society of Civil Engineers Urban Transport Division

Chair, Planning Committee (Until September 30, 2000).

Member, Conference Technical Program Committee, 7th International Conference on the Applications of Advanced Technologies in Transportation, to be held in Boston, MA in August 2002. Since August 2000.

Chair, Student Paper Competition. 7th International Conference on the Applications of Advanced Technologies in Transportation, to be held in Boston, MA in August 2002. Since August

2000.

American Society for Engineering Education (ASEE)

UNLV Campus Representative.

ITE Nevada Chapter

Member

Member, Casino Gaming Trip Generation Sub-Committee (Sept 1998 to present);

Tau Beta Pi, Nevada Beta Chapter, Engineering Honor Society

Principal Faculty Advisor. (Since August 2000)

Transportation Research Board, National Research Council

Member, TRB Committee (A5008) on Expert Systems.

Member, TRB Committee (A5015) Committee on Spatial Data and Information Science. April 1999 to present.

University of Nevada, Las Vegas

Member, College of Engineering and Sciences Research Computing Committee. Jan 1998 to present.

UNLV Howard R. Hughes College of Engineering

Member, College of Engineering Computing Technician Search Committee, September 2000 to present.

Member, College of Sciences and College of Engineering Computing Committee, 1997 to present.

UNLV Department of Civil and Environmental Engineering

Graduate Program Coordinator, September 2001 to present.

Member, Engineering Criteria 2000 for Accreditation Task Committee. August 1999 to present.

Chair/Member, Student Awards /Scholarships Committee, 1993 to present.

Edward S. Neumann

Control Group, ASCE Committee on Automated People Movers, Urban Transportation Division.

Control Group, ASCE Committee on Automated People Mover Standards.

Chair, Transportation Research board Committee A1E14, New Transportation Systems and Technology

Fellow, Institute of Transportation Engineers

Member, National society of Professional Engineers

Member, American Society of Engineering Educators

Member, American Academy of Orthotists and Prosthetists

Member, International Society of Prosthetics and Orthotics

Member, Advisory Board of the National Institute of Disability and Rehabilitation Research (NIDRR) - Wheelchair Transportation Safety Rehabilitation Engineering Research Center (RERC), University of Pittsburgh and University of Michigan, Transportation Research Institute.

Member, Advisory Board for the CODES Project, University of Nevada, Reno and the University

Medical Center Trauma Center
Professional Member, Amputee Coalition of America
Member Gait Society of North America
Member, Rehabilitation Engineering and Assistive Technology Society of North America
Associate Editor, Journal of Advanced Transportation

Srinivas Pulugurtha

Individual Affiliate Member, Transportation Research Board (TRB)
Associate Member, American Society of Civil Engineers (ASCE)
Member, ASCE Urban Transportation Division, Planning Committee
Associate Member, Institute of Transportation Engineers (ITE)
Member, ITS America and Nevada Chapter
Member, Transportation Demand Forecasting and Modeling Subcommittee, Regional Transportation Commission of Southern Nevada, Las Vegas

Maggie Saunders

Member, Association of Pedestrian and Bicycle Professionals
Member, Las Vegas Valley Bike Club
Member, Board of Directors, Las Vegas Little Theater
Member, RCIA Team, Adult Religious Education
Member, Payback Program, Clark county School district Partnership Program

Walter C. Vodrazka,

American Society of Civil Engineers

Fellow and Life Member
Member, Committee on Construction and Maintenance of Highways. Highway Division
ABET Visitor Representing ASCE
Faculty Advisor, UNLV ASCE Student Chapter
Boy Scout Engineering Merit Badge/Girl Scout Engineering Activity Badge Workshop Session
Leader and Planning Committee
2001 Future City Competition Essay and Presentation Judge
Champion, ASCE 150th Celebration Committee, Southern Nevada Branch

Member, National Society of Professional Engineers.
Faculty Advisor, Nevada Beta Chapter of Tau Beta Pi National Engineering Honor Society.
Member, American Society of Engineering Educators
Chair of the UNLV Faculty Senate Curriculum Committee

Walter C. Vodrazka, Jr.

American Society of Civil Engineers

Local Student Model Bridge Building Competition Committee Member. Attended monthly meetings since August of 2000, in charge of tours, rooms, audio/visual equipment. Held in March, 2001 at UNLV.
Local Student Model Bridge Building Competition Committee Member. Attended monthly

meetings, in charge of tours, rooms, audio/visual equipment. To be held in March, 2002 at UNLV.

Director I, Southern Nevada Branch

Practitioner Advisor, UNLV ASCE Student Chapter

Staff Advisor, UNLV ASCE Student Chapter

Attend Monthly luncheons (second Thursday of the month).

2001 Fall Transportation Conference Planning Committee, Sponsored by American Society of Civil Engineers (Southern Nevada Branch), Institute of Transportation Engineers (Nevada Chapter), and the Transportation Research Center, Las Vegas, September 2001.

2001 Future City Competition Planning Committee, Sponsored by local Engineering Societies and UNLV. Attended meetings throughout 2000 for event held in January 2001.

2001 Future City Competition Essay Judge

2002 Future City Competition Planning Committee, Sponsored by local Engineering Societies and UNLV. Attended meetings throughout 2001 for event to be held in January 2002.

2002 Future City Competition Computer Model Judge

Boy Scout Engineering Merit Badge/Girl Scout Engineering Activity Badge Workshop Session Leader and Planning Committee

Institute of Transportation Engineers

Member, Scholarship Committee.

Staff Advisor, UNLV ITE Student Chapter

Attend Monthly luncheons (Third Thursday of the month)

Tau Beta Pi, Nevada Beta Chapter, Engineering Honor Society

Staff Advisor.

Other Service Activities

Children's Health Fair, Mountain View Hospital, Las Vegas, NV, October 2001

RTC Bikefest, Las Vegas, NV, October 2001

Halloween Safety, Smith's Food and Drug, Las Vegas, NV, October 2001

Albertson's Store Grand Opening Pedestrian Safety, Las Vegas, NV, October 2001

ASCE Boy Scout Engineering Merit Badge and Girl Scout Engineering Activity Badge Workshop. Conducted presentations for three requirements for the badges. Over 150 scouts participated. Presenters included Kaseko, Vodrazka, and Vodrazka, Jr. Volunteers included Mani and Warnke September 2001.

Back to School Fairs at Boulevard and Meadows Malls, Las Vegas, NV, August 2001. Staff and students manned a booth on pedestrian and bicycle safety.

TRC and the UNLV ITE Student Chapter hosted the April 2001 ITE professional chapter luncheon.

ASCE Bridge Building Competition. Conducted a technical tour shop for participants at the competition. Several hundred students from Elementary, Junior and High Schools from Clark County participated. Presenters included Mani and Kagimoto. March 2001.

6. Graduate Students Advised & Graduated

Ph.D. Program

Mukund Dangeti (Kaseko, Nambisan)

Justin Rasas (Neumann)

Master's Program

Joanna Kajkowski (Kaseko) Thesis: Analysis of the Crash Potential at Signalized Intersections with Trap Lanes, Completed December 2001.

Kyle Walton (Kaseko) Thesis: Transit Oriented Land Use Controls, Completed May 2001.

Allan Fajardo (Kaseko)

Tom Miller (Nambisan)

Anil Mudigonda (Nambisan)

John Ridilla (Nambisan)

Dave Swallow (Kaseko)

Kristina Swallow (Neumann)

Vinod Vasudevan (Nambisan)

Natachai Wongchavalidkul (Nambisan)

7. Honors and Recognitions

Erin Breen

Plaque of Appreciation for “contributions and commitment to the Stand Tall, Don’t Fall Program”
September 2001.

Mukund Dangeti

Student Paper Competition, 2001 Fall Transportation Conference, Las Vegas, NV, September, 2001

Shashi Nambisan

Plaque of Appreciation for “contributions and commitment to the Stand Tall, Don’t Fall Program”
September 2001.

Walter C. Vodrazka, Jr.

Certificate of Commendation in “*Recognition by the Committee on Student Activities for Outstanding Service as Practitioner Advisor to the University of Nevada, Las Vegas Chapter of the American Society of Civil Engineers*” From ASCE International, June 2001.

Plaque of Appreciation for “*His Hard Work and Dedication as Our Practitioner Advisor for the 2000-2001 Academic Year.*” From ASCE Student Chapter, UNLV. May, 2001.

Plaque in Recognition of “*Your Distinguished and Outstanding Service While Serving as Practitioner Advisor.*” From ASCE Southern Nevada Branch, Las Vegas, NV. August 2001.

8. Workshops and Conferences Attended

Erin Breen

Governor's Conference on School Safety, Las Vegas, NV, November 2001.
2001 Fall Transportation Conference, Las Vegas, NV, September 2001.
Stand Tall, Don't Fall Leadership Camp, Las Vegas, NV, July 2001.

Mukund Dangeti

ArcGIS User's Workshop, Henderson, NV, October 2001.
2001 Fall Transportation Conference, Las Vegas, NV, September 2001.
Designing Streets for Pedestrians and Bicycles, Nevada Office of Traffic Safety, Presented by Michael Ronkin, Las Vegas, NV, August 2001.

Mohamed S. Kaseko

2001 Fall Transportation Conference, Las Vegas, NV, September 2001.
SIDRA Workshop, Las Vegas, NV, August 2001

Mani Mani

2001 Fall Transportation Conference, Las Vegas, NV, September 2001.
Stand Tall, Don't Fall Leadership Camp, Las Vegas, NV, July 2001.

Shashi Sathisan Nambisan

Remote Sensing and Spatial Information Technologies for Transportation, Transportation Research Board, Washington, DC, December 2001.
2001 Fall Transportation Conference, Las Vegas, NV, September 2001.
American Society for Engineering Education Annual Meeting, Albuquerque, NM, June 2001.
Innovations in Transportation Education and Workforce Development, US Department of Transportation Volpe Transportation Center, June 2001.
Designing Streets for Pedestrians and Bicyclists, Conducted by Michael Ronkin, Reno, NV, February 2001.

Edward Neumann

National Ergonomics Conference and Exposition, Las Vegas, NV, December 2001.
2001 Fall Transportation Conference, Las Vegas, NV, September 2001.
Workshop on Transfemoral Socket Solutions, Occor, Inc., Las Vegas, NV, August 2001.
10th World Congress of the International Society for Prosthetics and Orthotics, Glasgow, Scotland, July 2001.
Amputee coalition of America Annual Meeting, Kansas City, MO, June 2001.
Workshop on Principles of Care for Amputees, Amputee Coalition of America, Kansas City, MO, June 2001.
Workshop on Project Management and Negotiating, ASCE, Henderson, NV, June 2001.
Workshop on Ankle Orthotics, Campbell, Inc., Las Vegas, NV, April, 2001.

Annual Meeting of the American Academy of Orthotists and Prosthetists, Dalla, TX, March 2001.

Workshop on Transfemoral Socket Design, Cascade Inc., Reno, NV, February 2001.

Rehabilitation on the Move Conference, National Institute of Health, Bethesda, MD, January 2001.

Transportation Research Board 80th Annual Meeting, Washington, D.C., January 2001.

FHWA Older Driver Highway Design Workshop, Washington, DC, January 2001.

Stacy Paul

Stand Tall, Don't Fall Leadership Camp, Las Vegas, NV, July 2001.

Diane Pidsosny

Stand Tall, Don't Fall Leadership Camp, Las Vegas, NV, July 2001.

Srinivas S. Pulugurtha

Workshop on ArcGIS, October 2001.

2001 Fall Transportation Conference, Las Vegas, NV, September 2001.

Proposal Development Workshop, College of Engineering, UNLV, August 2001.

Transportation Research Board 80th Annual Meeting, Washington, D.C., January 2001.

Maggie Saunders

2001 Fall Transportation Conference, Las Vegas, NV, September 2001.

Stand Tall, Don't Fall Leadership Conference, Las Vegas, NV, July 2001.

Road I, League of American Bicyclists eight hour class and road test, Las Vegas, NV, May 2001.

Instructor Course, Elementary Traffic Safety Program, Nevada Office of Traffic Safety, Las Vegas, NV, June 2001.

Designing Streets for Pedestrians and Bicycles, Nevada Office of Traffic Safety, Presented by Michael Ronkin, Las Vegas, NV, August 2001.

Vinod Vasudevan

ArcGIS Workshop, Henderson, NV, October 2001.

2001 Fall Transportation Conference, Las Vegas, NV, September 2001.

MapGuide User's Workshop, Las Vegas, NV, February 2001.

Designing Streets for Pedestrians and Bicycles, Nevada Office of Traffic Safety, Presented by Michael Ronkin, Las Vegas, NV, August 2001.

Walter C. Vodrazka

ASCE, Faculty Advisor Training Workshop, Reston, VA, September 2001.

American Society for Engineering Education Annual Meeting, Albuquerque, NM, June 2001.

ASCE, Pacific Southwest Regional Conference, Long Beach, CA, April 2001.

ASCE Zone IV Leadership Conference, Sacramento, CA, February 2001.

Walter C. Vodrazka, Jr.

2001 Fall Transportation Conference, Las Vegas, NV, September 2001.

Stand Tall, Don't Fall Leadership Camp, Las Vegas, NV, July 2001.

Institute of Transportation Engineers, Inter-Mountain Section Meeting, Jackson Hole, WY, May 2001.

ASCE, Pacific Southwest Regional Conference, Long Beach, CA, April 2001.

ASCE Zone IV Leadership Conference, Sacramento, CA, February 2001.

Nick Warnke

2001 Fall Transportation Conference, Las Vegas, NV, September 2001.

Stand Tall, Don't Fall Leadership Camp, Las Vegas, NV, July 2001.

ASCE, Pacific Southwest Regional Conference, Long Beach, CA, April 2001.

Natachai Wongchavalidkul

2001 Fall Transportation Conference, Las Vegas, NV, September 2001.

Designing Streets for Pedestrians and Bicycles, Nevada Office of Traffic Safety, Presented by Michael Ronkin, Las Vegas, NV, August 2001.