



Transportation Research Center

Annual Report: Calendar Year 2000

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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 and Educational 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.

Focus

Education and Applied Research to Support Transportation Systems Life Cycle. The typical life cycle includes Policy Making, Planning, Design, Operations, Construction, and Maintenance & Rehabilitation Activities.

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 2000. The faculty members hold tenure track positions with academic departments at UNLV.

Faculty:

Mohamed Kaseko, Ph.D.
Shashi Nambisan, Ph.D., P.E., Director
Ed Neumann, Ph.D., P.E.
Ashok Singh, Ph.D.
Walter C. Vodrazka, Ph.D., P.E.

Professional Staff:

Erin Breen, B.A., Director, Safe Communities Partnership
Diane Pidsosny, Transportation Safety Specialist
Srinivas Pulugurtha, Ph.D., Assistant Research Professor
Walter C. Vodrazka, Jr., M.S.C.E, Transportation Systems Analyst

Consultants:

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

Students:

Undergraduate Students:

Michael Bradford (BSE - Civil Engineering) (through November, 2000)
Phil Bury (BSE - Civil Engineering) (from April 2000)
Don Durgin (BSE - Civil Engineering)
Cody Geisendorfer (BSE - Civil Engineering) (through May 2000)
Jennifer Gwiazdowski (BS - BioChemistry) (from October 2000)
Mani Mani (BSE - Pre-Engineering) (June through October 2000)
David Moss (BSE - Civil Engineering) (from December 2000)
Stacie Paul (BS - Marketing)
Jennifer Tracey (BS -) (from August 2000)
Ching Wang (BSE - Civil Engineering) (from September 2000)
Phil Wisely (BSE - Civil Engineering) (April through August 2000)

Graduate Students:

Zhenzhong Cui (MSE- Civil Engineering) (through May 2000)
Chang Hwan Park (MSE- Civil Engineering) (through June 2000)
Jyothi Tallapragada (MSE- Civil Engineering) (through October 2000)

High School Students:

Batra, Anita (Volunteer) (June through August 2000)
Batra, Priya (Volunteer) (June through August 2000)
Benetti, Anthony (Hourly) (June through August 2000)
Chaderrai, Revi (Volunteer) (June through August 2000)
Chaderrai, Risha (Volunteer) (June through August 2000)
Chinnaswamy, Janaki (Volunteer) (June through August 2000)
Hegman, Shelby (Hourly) (June through August 2000)
Mani Mani (through June 2000)
Thomas, Josh (Hourly) (June through August 2000)

SUMMARY OF ACTIVITIES IN 2000

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 and the Stand Tall, Don't Fall 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 Safe Community Partnership program is discussed next and it is followed by a discussion of the Stand Tall, Don't Fall program. It is followed by a summary of activities of the TRC for the calendar year 2000. 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 two years - i.e., until September, 2001.

All of the objectives established for the partnership were exceeded in 2000. 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

2000 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
Arrive Alive	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.
Dagerman's Just for Kids **	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
Jean Hanna Clark Rehab Center **	UNLV Police Department
Kirvin Communications	

** Partners added in 2000

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 Sierra Health Services. A sample agenda from the August, 2000 meeting is shown in the figure below.

<p style="text-align: center;">August 10, 2000 Safe Community Partnership Meeting Southwest Medical Services</p>	
1.	Welcome and Introductions
2.	Coordinator's Report <ul style="list-style-type: none"> a. Legislative issues and MADD b. Award c. Grant update d. Safety seat monies and possibilities for 800 number
3.	Old Business <ul style="list-style-type: none"> a. Walk-a-thon b. Walk Our Children to School Day c. Back to School Fair
4.	New Business <ul style="list-style-type: none"> a. Think Before You Drink Program b. Annual Luncheon
5.	Committee Breakouts

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 2000. The established priorities were:

- Aggressive Drivers
- 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.

Aggressive Drivers

The *Drive Friendly* Program was continued with the Taxicab Authority and Sierra Health Services where 3,500 taxi drivers were given information on aggressive driving, speed, alcohol, and general safety under the banner of "*Drive Friendly, Courtesy is Contagious*".

The *Drive Friendly* program was also continued through the use of message signs that included bright yellow 18-inch signs and reflective bumper stickers. Many presentations to service groups were also made on behalf of the *Drive Friendly* campaign, due primarily to the partnership with the Las Vegas Chamber of Commerce on this program.

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. This committee has been working with the County on standards for a pedestrian mid-block crossing that was commissioned by NV Office of Traffic Safety. Because of the TRC's relationship with both of these entities, approval came for last year's request that the university be chosen as the pilot site for a mid-block refuge island and embedded lights in a crosswalk. Some of these features are a reality at Maryland Parkway and Del Mar Street, with further improvements still under consideration. When UNLV's student leaders from CSUN went to County Commissioner Herrera to request assistance at this intersection, they did not realize that the Partnership had been working on pedestrian improvements for Maryland Parkway for more than a year.

The pedestrian safety issue is a problem all over Clark County. A brochure explaining how to use signalized crosswalks safely was updated in the last year to assist with speaking engagements on this issue. This is a topic that the Partnership spends a great deal of time on in the schools. Both elementary and middle schools are targets for pedestrian and bike safety. This is also a topic that receives much media attention. During the year an article pertaining to pedestrian safety featured the TRC on the front page of the Local News section. The TRC was also mentioned on numerous television newscasts and in two other newspaper articles.

The biggest and most visible event that was held during 2000 was “*Walk Our Children to School Day*,” which was held on October 4th at Cartwright Elementary School. The focus of the day was the start of the pilot-program for the Walking School Bus Program. This program brings together parents from the school to assist one another in walking their children to and from school. At this school there were partnership volunteers passing out breakfast and incentive items on the morning of the event. The parents were notified of the event and asked to participate through educational materials developed by the Partnership and sent home weekly in the month prior to the event. Police officers from both Metro and the City of Henderson were on hand during the event as well as individuals from the City of Henderson Traffic Division. All of the major local media organizations were present. There were a total of 31 hits (spots / stories) on the news plus the Spanish station, and pictures in each of the newspapers. Two of the TV stations had live broadcasts from the event all morning, beginning at 7:00 a.m.

There were close to 200 participants. Our message was on milk cartons from the local dairy for three weeks and flyers were distributed at area Smith’s Food and Drug Stores. The event was announced at local Smith’s stores on their continuous loop of announcements which plugged the event once every fifteen minutes, 24-hours a day in the week prior. Informational flyers and walkability checklists were also distributed at the annual “*Back to School Fair*” at the Boulevard and Meadows Malls. This was a very visible event for the Partnership. In early 2001 there are two more elementary schools starting off a Walking School Bus Program with the help of the Partnership.

Teen Drivers

The teen driving committee continued to spend time during 2000 discussing the proposed Graduated Licensing Bill. The committee also made presentations whenever possible to educate the public about this proposed legislation.

The teen driver committee has worked with the Stand Tall, Don’t Fall program funded by the State Office of Juvenile Justice. This effort brought presentations about the importance of not drinking and driving into the schools and aided student groups in their efforts to combat underage drinking.

Alcohol Issues

The drinking and driving committee was active in its first full year. The committee combined with Arrive Alive to generate awareness of the designated driver program by placing table tents in Clark County bars and taverns. The committee also joined forces with Stop DUI at several events throughout the year.

The Nevada Joining Forces Conference in November, brought together law enforcement agencies from Nevada to discuss plans to enforce drunk and drug driving laws and to promote traffic safety. The agencies involved at this conference included (but are not limited to): Nevada Highway Patrol, Boulder City Police Department, Henderson Police Department, Las Vegas Metropolitan Police Department, North Las Vegas Police Department, Reno Police Department, and Sparks Police Department. Also a news conference was held in early December to promote drunk and drug driving awareness. Police officers from Boulder City, Henderson, Las Vegas Metro, and North Las Vegas were present during the news conference when representatives from the National Highway Traffic Safety Administration, the Nevada Office of Traffic Safety, and Stop DUI spoke to the press. Also introduced 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.

In combination with the Teen Driver Committee, the Stand Tall, Don't Fall program was begun at the TRC. This program glamorizes and normalizes the choice not to drink. This program is funded by the Nevada Office of Juvenile Justice and is discussed later in this report. The Partnership help to run the Stand Tall, Don't Fall leadership camp held in Las Vegas in July 2000.

Occupant Protection

The main focus of the occupant protection committee in 2000 was infant and toddler passengers in motor vehicles. The partnership teamed with Las Vegas Metro and the Clark County Safe Kids Coalition to run three 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 three checkpoints were run during National Child Passenger Safety Week in February, National Buckle Up America week in May, and National Operation ABC (America Buckles Children) in November. Hundreds of vehicles passed through the checkpoints during these three days with 26 seats replaced in February, 22 seats replaced in May and 36 seats replaced in November. These three events were covered by the local newspaper and 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.*

Some of the events that the Partnership organized are discussed in the following sections.

Walk Our Children to School Day

The biggest and most visible event that was held during 2000 was "Walk Our Children to School Day," this event was held on October 4th at Cartwright Elementary School in Henderson. This has been discussed in detail under the "Pedestrian Safety" section in Objective 3. The Partnership mascot Sally was present

at this event. The event was covered by the local papers and the local television news programs including live reports.

Child Safety Seat Checkpoints

Three child safety seat checkpoints were held during 2000. These events occurred during Child Passenger Safety Week, Buckle Up America Week, and Operation ABC. Child safety seats were checked for proper usage and damage or recall notices. Those seats that were found wanting were replaced at no charge to the driver. This has been discussed in detail under the "Occupant Safety" section of Objective 3. These three events were covered by the local newspaper and the local television news programs including live reports.

Bike Safety Night at the Ballgame

Bike safety night was held at Cashman Field before and during a Las Vegas Stars home game in June 2000. The night was sponsored by the Partnership, Safe Kids, and the Las Vegas Valley Bike Club. Approximately 250 helmets were fitted for children as they arrived at the game. Additional informational flyers were also distributed before the game. The Partnership mascot Sally was present as was the crash test dummies, who threw out the first pitch. The event was covered by the local papers and the local television news programs.

Media Coverage

The total media coverage received in 2000 by the Partnership is estimated to be in excess of three hours of air time during news programs, five hours on local cable access programs, and over six hours of radio air time. In addition, activities of the Partnership were the subject of two "feature" stories, four other stories, one editorial (written by Breen), and in Squires' *Road Warrior* column five times in the *Las Vegas Review Journal*, one of the local newspapers. In addition the Partnership was the subject of three articles and one editorial (written by Snyder on Bike and Pedestrian Safety) in the *Las Vegas Sun*. Erin Breen hosted "Safety First," a local cable access program airing on KTVY on Tuesday 7:00-7:30 p.m., four times and appeared 10 other times. Ms. Breen is considered to be the emergency guest for the show.

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 Orleans. Over 80 people attended the luncheon which featured comments from State Assemblywoman Barbara Cegavske and a keynote address by Marty Manning, Director Clark County Public Works. Channel 8 TV News covered the event where awards donated by Sierra Health Services were given to the recipients.

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. Bike Safety Night at the Ballgame
4. Seat belt check points throughout the year
5. Transportation Information Fair sponsored by the Regional Transportation Commission at the Boulevard Mall in March
6. Back to School Fair at the Boulevard and Meadows Mall in August
7. Elementary School Bike Rodeos held throughout the year
8. Activities Fair at Fay Herron Elementary School

The Partnership developed four brochures during 2000. The brochures were distributed throughout the year but mainly at the events for which they were created. The brochures were on topics that included pedestrian safety and child pedestrian safety. A brochure was also developed in conjunction with Arrive Alive on the cost of getting a DUI. The fourth brochure was created for the “Walk Our Children to School Day.”

During the year two different public service announcements (PSAs) were aired on TV Channels 3, 5, and 8 numerous times. There were also PSAs made on almost all of the local radio stations.

Objective Seven: *To provide resources for community partners who wish to set up exhibits and displays related to traffic safety.*

In addition to the four brochures developed during the year, the Partnership received and distributed information from the Nevada Office of Traffic Safety, the National Highway Traffic Safety Administration, and the National Safety Council. The total amount of pamphlets, key chains, bumper stickers, coloring books, rulers, stickers, temporary tatoos, and etc. was well over 350,000 items.

Objective Eight: *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 two grants and a Regent Award during 2000. 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 2000 Stand Tall, Don’t Fall Leadership

conference to be held in Las Vegas. The other grant was approved and established a full-time coordinator (Pidsosny) for the Youth DUI project in Clark County.

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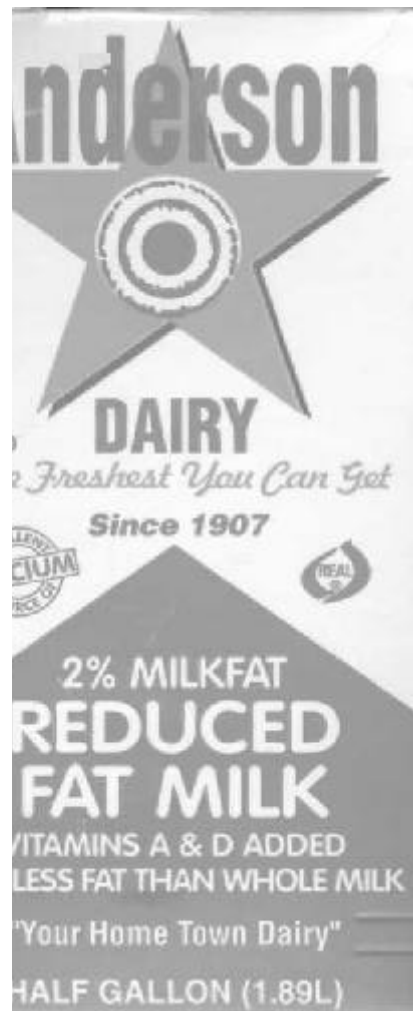
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Stand Tall, Don't Fall Program

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 main purpose of this Program was to establish and assist Stand Tall Programs in Nevada high schools. As part of this process the Program held a Leadership Camp in July 2000 to bring student leaders together to develop plans to deter underage drinking. This was to address the first goal of the program. It brought together teens from throughout the state, each team developing a school based program specific to the needs on their campus. This was achieved through a curriculum that included expert education, interaction and planning time and guidance from a team of professionals in place to support the project, and help the students reach their goal of "Glamorizing and normalizing the decision to not drink."

The remainder of the project is being guided by the Nevada Office of Juvenile Justice and a group of volunteers from the community which includes law enforcement, treatment providers, family and youth services, the beverage industry and convenience store owners. This group is refereed to as the STAC Committee (Stand Tall Advisory Committee). In a series of meetings it was determined that the greatest need in Clark County in the juvenile alcohol area is a lack of consequences for illegal behavior, and the second goal of the program has been determined to be a diversion program for juvenile offenders.

The final component of the program is the development of a web site. This will be a new and improved mechanism that will be made available to the sponsors and program participants. During the July conference ideas for the site were discussed with the camp participants. The concept for the site is to have a "Home Page" that will be designed and maintained by the Transportation Research Center (TRC) which will include data, research, and articles about youth alcohol projects around the country as well as feature projects from around the state. There will also be sites linked to the home site from each of the projects throughout the state. The project sites will be developed at each school with guidance from the Webmaster at the TRC. Another component of the web project is an "e-zine" electronic newsletter which will be sent to participants, school Principals, elected officials and service providers throughout the state, it will also be linked to the home site. The web project has been designed by a student worker in the TRC, with guidance from staff and a professional from Qwest Communications. The year will culminate with the second annual conference to again be held on the UNLV campus in June 2001. Preparations for that conference have already begun and will continue throughout the year.

The Leadership Camp was a five-day event that was preceded by a two-day training session. The training session was conducted to teach the facilitators what they would need to do when conducting their family groups and action pact meetings. High schools and community organizations were invited to send a five person team to the camp, each team consisted of four students and one teacher. There were 25 high schools or community organizations represented at the camp for a total of 110 students and 25 teachers. There were 35 facilitators, 25 staff members, and approximately 30 speakers in attendance for a total of 225 people at the camp.

The leadership camp included general sessions, skills clinics, family groups, action pact meetings, a town hall meeting, and several “fun” events. Each of these activities is discussed in greater detail next.

The general sessions ranged in topics from motivation speakers to educational speakers to law enforcement officers. The speakers included:

1. Brandon and Tony Silveria, youth injured in alcohol related crash
2. Frankie Scintas, musical, motivational speaker
3. Ed Gerety, motivational speaker
4. Detective Bill Redfarin, LVMPD, effects of alcohol on the body
5. Sandy Heverly, Stop DUI presentation
6. Kelly Baraga, California Highway Patrol, Every 15 Minutes Program
7. Peter D., media literacy discussion

In addition to these speakers, several students participated in the general sessions. Three facilitators presented “Best Practices” from their organizations. Another 15 students made a presentation called “FACES” during which the students either read experiences from other people or told of a personal one.

The skills clinics were intensive training sessions designed to provide specific information on specific topics. The clinics provided teams with a broad base of knowledge including many of the skills necessary to run a successful program. Team members were not allowed to attend the same skills clinic. This was done to broaden the scope of information each team acquired at the camp. The topics and presenters for the skills clinic included:

1. Innovative fund raising ideas, Steve Emerick, MADD
2. Documenting your success with video, Shelly Wennermark and Greg Rundell, Metro Video Unit
3. How to write a press release, Ceres Morris, Kirvin Communications
4. Communicating visually, Bill Redfarin, LVMPD
5. Making PSA's that work, Kendall Tenney and Jeanie White, KVBC Channel 3
6. Time management, Helen Lowder, Toastmasters - MGM Lions Roar
7. Conducting compliance checks, Sgt. Dave Kirwin, Hend9 T076 -0.3354 Tndall Ten2g17.25 -15 Tw (2.) Tj 9

by camp facilitators, guided by the teachers, and driven by the students. The action packs joined several teams together based on the location of their school or organization.

The Town Hall Meeting gave the students a chance to ask questions of experts and elected officials from across the State of Nevada. Some of the panelists for the Meeting included:

1. Frankie Sue Del Papa, Nevada Attorney General
2. Barbara Cegavske, Assembly District 5
3. Mark Manendo, Assembly District 18
4. Gary Booker, Clark County District Attorney's Office, Vehicular Crimes
5. Michael Mack, Councilman, City of Las Vegas
6. Kiki Rogers, Nevada Beverage
7. Sandy Heverly, Stop DUI
8. Theresa Malone, Clark County School District Board

The "fun" events were provided to give the students a chance to relax in a controlled environment. These events ranged from a cook-out on the opening night of the camp to a dance on the closing night. The events included:

1. Ice Breaker Games
2. Cook-Out and outdoor games
3. Stand Tall Follies
4. Circus-Circus Adventure Dome
5. Luau/Closing Dance
6. Camp Slide Show
7. Closing Ceremony

In preparation for the Leadership Camp, TRC personal contact every high school in Clark County to discuss the program. About half of the schools responded to the request. The TRC was only in charge of contacting Clark County Schools. In addition, Paul and Pidsosny, arranged the camp program which included items ranging from reserving rooms on campus to ordering name badges to inviting speakers to attend.

Almost immediately after the camp, planning began for the 2001 Leadership Camp. An extra effort is being made to contact those schools that did not participate in the 2000 Camp. Visits were made in December to Chaparral and Cheyenne High Schools to present the Stand Tall, Don't Fall 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

- Kaseko, Vodrazka, Jr., and Nambisan, “*Comparative Evaluation of Field Performance of Pavement Marking Products on Alternative Test Deck Designs.*” Accepted for Presentation at the Transportation Research Board 2001 Annual Meeting. Paper Number 01-3338. Under consideration for Publication in the Transportation Research Record Series. August 2000.
- Pulugurtha and Nambisan, “*Risk Analysis Using GIS: Evaluation of Alternative Routes for Radioactive Materials Transportation.*” Accepted for Presentation at the Transportation Research Board 2001 Annual Meeting. Paper Number 01-3022. August 2000. Under consideration for Publication in the Transportation Research Record Series. August 2000
- Nambisan and Pulugurtha, “*Estimating Time Dependent O-D Trip Tables With Trips Originating in Multiple Time Slices.*” Accepted for Presentation at the Transportation Research Board 2001 Annual Meeting. Paper Number 01-2610. July 2000. Under consideration for Publication in the Transportation Research Record Series. August 2000
- Nambisan. Editor. *The 2020 Vision of Air Transportation: Emerging Issues and Innovative Solutions.* Proceedings of the 26th International Air Transportation Conference, American Society of Civil Engineers. San Francisco, CA. June 2000. 366 pp.
- Pulugurtha and Nambisan, *Development of a System to Access Transportation and GIS Data Using the Internet.* Paper Submitted for Publication in the Special Issue on Computing and Information Technologies in Transportation Engineering, Journal of Computer-Aided Civil & Infrastructure Engineering, 2000.
- Pulugurtha and Nambisan, *A Decision Support Tool for Airline Yield Management Using Genetic Algorithms.* Paper Submitted for Publication in the Special Issue on Computing and Information Technologies in Transportation Engineering, Journal of Computer-Aided Civil & Infrastructure Engineering, 2000.
- Pulugurtha and Nambisan, *Estimating Time Dependent O-D Trip Tables During Peak Periods.* Journal of Advanced Transportation, Vol. 34(3), p(369-389), 2000.
- Pulugurtha and Nambisan, *Using Genetic Algorithms to Evaluate Aircraft Ground Holding Policy Under Static Conditions.* Accepted for Publication in ASCE Journal of Transportation Engineering, 2000.
- Pulugurtha and Nambisan, *Using Genetic Algorithms to Evaluate Aircraft Ground Holding Policy in Real Time.* Accepted for Publication in ASCE Journal of Transportation Engineering, 2000.

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

- Nambisan and Yazdani. *An Innovative Tool for Managing Pavement Markers and Markings.* CD-ROM Proceedings, the Sixth International Conference on the Applications of Advanced Technologies in Transportation, Singapore. June 28-30, 2000.
- Pulugurtha, Nambisan, Pulugurtha. *Causal Factors And the Apparent Role of Turning Movement On Crashes in Clark County, Nevada.* CD-ROM Proceedings, Institute of Transportation Engineers 2000 District 6 Annual Meeting, San Diego, California. June 24-28, 2000.

Nambisan, Kajkowski,, and Menon, “A Preliminary Survey of Ground Service Equipment Running Times and Its Implications for Air Quality Estimates at Airports” Proceedings of the 26th International Air Transportation Conference, ASCE. San Francisco, CA. June 18-21, 2000. pp. 144-152.

Technical Reports

Nambisan, Shashi S. and Walter C. Vodrazka, Jr. *Child Safety Seat Use Survey: 2000*. 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 2000.

Kaseko, Mohamed S., Walter C. Vodrazka Jr., and Shashi S. Nambisan. *Evaluation of Pavement Marking Materials Performance and Specifications for Clark County Roads*. Draft Final Report. Prepared for the Regional Transportation Commission of Clark County, Las Vegas, NV. Transportation Research Center, Howard R. Hughes College of Engineering, University of Nevada, Las Vegas, December 2000.

Pulugurtha, Srinivas and Shashi S. Nambisan. *Development of Internet Applications for Transportation Management Systems*. Periodic Progress Reports. Prepared for the Clark County Department of Public Works, Las Vegas, NV. Transportation Research Center, Howard R. Hughes College of Engineering, University of Nevada, Las Vegas.

Kaseko, Mohamed S., Walter C. Vodrazka Jr., and Shashi S. Nambisan. *Evaluation of Pavement Marking Materials Performance and Specifications for Clark County Roads*. Quarterly Progress Reports. Prepared for the Regional Transportation Commission of Clark County, Las Vegas, NV. Transportation Research Center, Howard R. Hughes College of Engineering, University of Nevada, Las Vegas.

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. Various articles on the following topics:

1. Pedestrian Safety (2 times)
2. Walk Our Children to School Day
3. Stand Tall Don't Fall Leadership Camp
4. Child Safety Seat Checkpoints
5. Pedestrian Safety Editorial (Written by Breen)
6. Michael Squires' *Road Warrior* Column (5 times)
7. Clark County Internet Mapping Project
8. Pavement Marking Evaluation Project
9. Child Safety Seat Usage Study

Las Vegas Sun, Various articles on the following topics:

1. Pedestrian Safety
2. Stand Tall, Don't Fall Leadership Camp

3. Child Safety Seat Checkpoint
4. Bike and Pedestrian Editorial (Written by Snyder)

Henderson Home News, Featured stories on the following topics

1. Stand Tall, Don't Fall Leadership Camp
2. 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 following:

1. Safe Communities Partnership Activities
2. TRC involvement in the Partnership
3. Pavement Marking Evaluation Project
4. Stand Tall, Don't Fall Leadership Camp
5. Clark County Internet Mapping Project.

Channels 3, 5, 8, and 13 and UNLV's Academic Café program (Channels 4 and 10) aired these stories.

2. Presentations and Conference Activities

Conferences and Workshops Hosted

Nevada Joining Forces Conference, Co-host with the Nevada Office of Traffic Safety. This conference brought together law enforcement agencies from Nevada to discuss plans to enforce drinking laws and promote traffic safety. Las Vegas, NV. November 2000. 50 Participants.

2000 Fall Transportation Conference. In its ninth year, this conference is jointly sponsored by TRC and the local chapters of the ASCE, ITE, and ITS Nevada. Moyer Student Union, Las Vegas, NV. Over 150 individuals from Nevada, and several western states, and from other parts of the U.S.A. participated in this conference. Moyer Student Union, UNLV Campus, Las Vegas, NV. September 21-22, 2000.

National Video Tele-conference on Enforcing Underage Drinking Laws, Co-Host with the Pacific Institute for Research and Evaluation. Arranged interviews and demonstrations for the conference. Las Vegas, NV. September 5-7, 2000. Broadcast date: September 22, 2000. 25 Participants at the Session Coordinated at UNLV.

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 22-28, 2000.

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)

Pidsosny, Paul, and Vodrazka, Jr., *Stand Tall, Don't Fall Introduction*, Chaparral High School STATUS, December 2000.

Pidsosny, Paul, and Vodrazka, Jr., *Stand Tall, Don't Fall Introduction*, Cheyenne High School STATUS, December 2000.

- Breen and Vodrazka, Jr., *Passenger Safety and Crash Statistics*, Joining Forces Conferences, hosted by the Nevada Office of Traffic Safety and the Transportation Research Center, Las Vegas, NV, November, 2000.
- Breen, *Crash Dynamics*, Child Passenger Safety Conference, Clark County Safe Kids Coalition, Las Vegas, NV, October 2000.
- Breen, *Transportation Safety Issues in Clark County*, Institute of Transportation Engineers, Nevada Section Monthly Meeting, Las Vegas, NV, October, 2000.
- Nambisan, Pulugurtha, and Vodrazka, Jr., *Routing and Risk Analysis for Nuclear Waste Transportation*, 2000 Fall Transportation Conference, sponsored by American Society of Civil Engineers (Southern Nevada Branch), Institute of Transportation Engineers (Nevada Chapter), Intelligent Transportation Systems - Nevada, and the Transportation Research Center, Las Vegas, September 2000
- Nambisan. *An Innovative Tool for Managing Pavement markers and Markings & Other Research Efforts at the University of Nevada, Las Vegas*. Department of Civil Engineering, Indian Institute of technology, Madras (Chennai), India. July 10, 2000. (Invited Presentation).
- Breen, *Transportation Safety Issues in Clark County*, American Society of Safety Engineers, Monthly Lunch, June 2000.
- Nambisan and Yazdani. *An Innovative Tool for Managing Pavement Markers and Markings*. the Sixth International Conference on the Applications of Advanced Technologies in Transportation, Singapore. June 28-30, 2000.
- Nambisan, Session Chair. *Traffic Modelling*. 6th International Conference on Applications of Advanced Technologies in Transportation Engineering. June 28-30, 2000. Singapore. (Invited Participation).
- Pulugurtha, Nambisan, and Pulugurtha. *Causal Factors And the Apparent Role of Turning Movement On Crashes in Clark County, Nevada*. Institute of Transportation Engineers 2000 District 6 Annual Meeting, San Diego, California. June 24-28, 2000.
- Kaseko and Vodrazka, Jr. *A Comparative Evaluation of Test Deck Performances*, Poster Session. Institute of Transportation Engineers 2000 District 6 Annual Meeting, San Diego, California. June 24-28, 2000.
- Nambisan, Session Chair. *Planning Challenges for Airports of the Future*. 26th International Air Transportation Conference, ASCE. San Francisco, CA. June 18-21, 2000. (Invited Participation).
- Nambisan, Kajkowski, and Menon, "A Preliminary Survey of Ground Service Equipment Running Times and Its Implications for Air Quality Estimates at Airports" the 26th International Air Transportation Conference, ASCE. San Francisco, CA. June 18-21, 2000.
- Pulugurtha, Nambisan, Park, Jensen, and Miller. *Internet Based Transportation and GIS Database Management System*. Concurrent Session 3, at the Thirteenth Annual GIS for T Symposium, Minneapolis, MN. March 27-29, 2000.
- Breen and Pidsosny, various presentations to elementary and high school students concerning traffic and pedestrian safety and youth alcohol issues throughout year.
- Pidsosny, various presentations aimed at supporting the Stand Tall, Don't Fall student organizations throughout Clark County.

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

Development of Urban Transportation Congestion Management and Mitigation Measures. Regional Transportation Commission of Southern Nevada, Las Vegas, Nevada. (PI: Nambisan) (Contract amount \$ 35,238.00).

Underage DUI and Traffic Safety: A Research and Education Program. UNLV Applied Research Initiatives Program, Las Vegas, NV. July 2000 - June 2001. (PI: Nambisan; Co- PI: Erin Breen) (Contract amount \$ 48,655.00).

Analyses of Spent Nuclear Fuel and High Level Radioactive Waste Transportation by Rail. Nevada Agency for Nuclear Project, Carson, City, NV. July 1, 2000 to September 30, 2000. (PI: Nambisan) (Contract amount \$ 50,000.00).

Equipment Donation, Two HP servers, components, and software. Donated by Aldec, Inc., Henderson, NV, October 2000 (Donation amount \$ 1,175.00).

Underage DUI and Traffic Safety: A Research and Education Program - Phase II. Nevada State Juvenile Justice Commission, Carson City, NV. July 1, 2000 to September 30, 2001. (PI: Nambisan; Co- PI: Erin Breen) (Contract amount \$ 246,573.00).

Underage DUI and Traffic Safety: A Research and Education Program - Phase I. Nevada State Juvenile Justice Commission, Carson City, NV. June 1, 2000 to December 31, 2000. (PI: Nambisan; Co- PI: Erin Breen) (Contract amount \$ 140,427.00).

Analyses of Spent Nuclear Fuel and High Level Radioactive Waste Transportation by Highway. Nevada Agency for Nuclear Project, Carson, City, NV. April 1, 2000 to July 31, 2000. (PI: Nambisan) (Contract amount \$ 50,000.00).

Child Safety Seat Use Survey. Sponsored by the Office of Traffic Safety, Department of Motor Vehicles and Public Safety, Carson City, Nevada. February - September 2000. (PI: Nambisan) (Contract amount \$ 36,000.00).

Nevada Joining Forces Conference. Sponsored by the Office of Traffic Safety, Department of Motor Vehicles, Carson City, Nevada. August - December 2000. (PI: Nambisan; Co-PI Breen) (Contract amount \$ 17,820.00).

Internet Mapping/ Applications System Maintenance and Management. Sponsored by Clark County Department of Public Works, Las Vegas, Nevada. February 2000 to January 2001. (PI: Nambisan) (Contract amount \$ 13,000).

Stand Tall, Don't Fall: United Against Underage Drinking. Sponsored by the Nevada State Juvenile Justice Commission. Carson City, Nevada. November 1999 to May 2000. (PI: Nambisan; co-PI: Erin Breen) (Contract amount \$ 18,067.00).

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 to June 2001. (PI: Nambisan; co-PI: Srinivas Pulugurtha) (Contract amount \$ 34,974.00).

Spatial Index System for Project Web Management. Sponsored by Clark County Department of Public Works, Las Vegas, Nevada. February 2000 to January 2001. (PI: Nambisan; co-PI: Srinivas Pulugurtha) (Contract amount \$ 25,000.00).

- Internet Project Web Management System. Sponsored by Holman's of Nevada, Inc., Las Vegas, Nevada. February 2000 to September 2001. (PI: Nambisan; co-PI: Srinivas Pulugurtha) (Contract amount \$ 14,985.00).
- 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 \$ 30,000.00).
- Facilities Management System for UNLV. Funded by the Planning Initiatives Awards Program, Office of the President, the University of Nevada Las Vegas, Las Vegas, NV. July 1999 to June 2000, (PI: Nambisan. Co-PIs: Coburn, Amend, Snyder, Drake, Miller). The objective of this project is to develop a computerized decision support system to coordinate facilities management, parking, traffic circulation and classroom utilization at UNLV. Graduate Student: Jyothi Tallapragada; Undergraduate student: Don Durgin. TRC staff members Dr. Srinivas Pulugurtha and Bob Puterski are also presently working on this project (Contract amount \$ 29649.00).
- Safe Communities Coalition/Partnership. Sponsored by the Nevada Office of Traffic Safety. October 1998 to September 1999. (PI: Neuman). October 1999 through March 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 \$ 105,000.00).
- 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 - June 2000. (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 \$ 240,341.00).

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

- Comparative Evaluation of Analysis and Simulation Software for Traffic Operations. Submitted to the Nevada Department of Transportation. October 2000 through September 2001 (PI Kaseko; Co-PI: Nambisan, Pulugurtha) Evaluate several transportation analysis and simulation software with the purpose of identifying software program(s) that are suitable for use on NDOT-sponsored projects. (Proposed amount \$ 83,529.00). Contract pending.
- Development of a Roadway Incident Detection System and Database for the Las Vegas Freeway and Arterial System of Transportation (FAST). June 2000 through December 2001. (PI: Nambisan; Co-PI Kaseko).
- 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. (PI: Nambisan; Co-PI Kaseko). There are several objectives to this research which include, assisting in

- the development and populating of databases, developing software for incident detection, and developing GIS based graphics for FAST. (Proposed amount \$ 59,902.00). Contract pending.
- Pedestrian and Bicycle Program for Clark County. Submitted to the Nevada Office of Traffic Safety, Department of Motor Vehicles. January 2001 through September 2003. Contract Pending. (PI: Nambisan; Co-PI Breen) This is for the establishment of a Safety Specialist to develop and maintain a pedestrian and bicycle safety program for Clark County. The program would fall under the umbrella of the Safe Community Partnership and establish a sub-committee to the overall membership. (Proposed amount \$ 266,552.00 for a 3 year program, 2001 budget proposed is \$ 65, 314.00)
- Seamless Integration of Hotel and Airport Systems. Submitted to Electronic Data Systems (EDS) and McCarran International Airport. (Co-PIs: Nambisan and Nartker - as part of a UNLV Team) This project would be to integrate various aspects of the transportation systems for the airport and the hotels. (Concept Paper Submitted in November 2000)
- Developing a Facts and Figures Booklet for Transportation and Crash Statistics in Clark County, Nevada. Submitted to the Nevada Office of Traffic Safety, Department of Motor Vehicles. October 2000 through May 2001. (PI: Nambisan; Co-PI Pulugurtha). The goal of this project is to update and analyze existing crash data to include 1999 data and to develop a booklet to summarize facts and figures for Clark County. (Proposed amount \$ 16,301.00). Declined by Sponsor.
- Full Scale Thermal Testing of the Super Speed Train Guideway. Submitted to the California-Nevada Super Speed Train Commission through the Parsons Transportation Group. May 2000 through December 2001. (PI: Frederick; Co-PI Ladkany). Develop and implement testing plan to determine temperature gradient between the top and bottom flanges and between the left and right sides of the beams used in the Maglev Support Structure. (Proposed amount \$ 150,000.00)
- Suggested Route to School Maps. Submitted to the City of Santa Clarita, California. Proposal submitted in association with Lin Consulting , Inc. (PI: Nambisan) To develop GIS-based suggested route to school maps for the city of Santa Clarita, CA. Similar to projects performed for Clark County and the City of Las Vegas. (Proposed amount \$ 30,000.00). Declined by Sponsor.
- Comparative Study of Alternative Median Island Paving Materials in Nevada. Submitted to the Nevada Department of Transportation. January 2001 through Decmebr 2001 (PI: Karakouzian; Co-PI: Nambisan) Evaluate the performance of different median island paving materials used in the Las Vegas and Reno areas. (Proposed amount \$ 103,713.00). Declined by Sponsor.
- An Analysis of Stormwater Pollutant Loads from Road Surfaces. Submitted to the Nevada Department of Transportation. October 2000 through September 2002 (PI Piechota; Co-PI Batista, Nambisan) Develop a better understanding of the water quality impacts from road surface runoff. (Proposed amount \$ 189,902.00). Declined by Sponsor.
- Evaluation of Transportation System Performance Using RWIS Data. Submitted to the Nevada Department of Transportation. October 2000 through September 2001. (PI: Nambisan; Co-PI Pulugurtha) To eveluate the effect of commuter-warning system on peak-hour traffic volumes, traffic delays, and weather related crashes along the study corridor. (Proposed amount \$85, 080.00). Declined by Sponsor.

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.

Institute of Transportation Engineers (ITE)

Member, Scholarship Committee, Nevada Chapter.
Faculty Advisor, ITE, UNLV Student Chapter.

American Society of Engineering Education (ASEE)

Member

ITS – America, Nevada Chapter

Member

Member, Project Steering Committee for the Las Vegas Area Freeway Management System (Since July 1998). The project involves high level design of a multi-million dollar freeway management system for the Las Vegas area, using Intelligent Transportation Systems (ITS) components. Project being managed by NDOT.

Shashi Sathisan Nambisan

American Society of Civil Engineers Air Transport Division

Chair, Environmental and Planning Committee.

Chaired a committee meeting in San Francisco, CA. June 18, 2000.

Member, Conference Steering Committee, 26th International Air Transportation Conference (to be held in San Francisco, CA in June 2000). Air Transport Division. August 1999 to June 2000.

Chair, Student Paper Competition. 26th International Air Transportation Conference (to be held in San Francisco, CA in June 2000). Air Transport Division. August 1999 to June 2000.

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 Summer 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 Summer 2002. Since August 2000.

ASCE Southern Nevada Branch

Served on the Steering Committee for the 2000 Annual Fall Transportation Conference held in Las Vegas, NV (September 21-22, 2000).

American Society for Engineering Education (ASEE)

UNLV Campus Representative.

ITE Nevada Chapter

Member

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

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

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

Chair, Dr. Barbara Luke's Tenure Advisory Panel. May 2000 to September 2000.

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

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

Edward S. Neumann

Chair, ASCE Committee on Automated People Movers, Urban Transportation Division.

Control Group, ASCE Committee on Automated People Mover Standards.

Member of Scientific Committee for APM99 Sponsored by the Society of Danish Engineers and ASCE.

Srinivas Pulugurtha

Affiliate Member, Transportation Research Board (TRB).

Associate Member, ASCE.

Associate Member, Institute of Transportation Engineers (ITE).

ITS Nevada Chapter.

Walter C. Vodrazka,

Member, Committee on Construction and Maintenance of Highways. Highway Division. American Society of Civil Engineers (ASCE).

ABET Visitor Representing ASCE.

Faculty Advisor, UNLV ASCE Student Chapter.

Member, National Society of Professional Engineers.

Faculty Advisor, Nevada Beta Chapter of Tau Beta Pi National Engineering Honor Society.

Walter C. Vodrazka, Jr.

American Society of Civil Engineers

Local Student Model Bridge Building Competition Committee Member. Attended monthly meetings since August of 1999, in charge of tours, rooms, audio/visual equipment. Held in February, 2000 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, 2001 at UNLV.

Board Member, Southern Nevada Branch - Practitioner Advisor to the UNLV Student Chapter. Attend monthly meetings to promote a close relationship between the Professional and Student Chapters.

UNLV Student Chapter Staff Advisor. Provide guidance and help to the student chapter.

Attend Monthly luncheons (second Thursday of the month).

2000 Fall Transportation Conference Planning Committee, Sponsored by American Society of Civil Engineers (Southern Nevada Branch), Institute of Transportation Engineers (Nevada Chapter), Intelligent Transportation Systems - Nevada, and the Transportation Research Center, Las Vegas, September 2000.

Institute of Transportation Engineers

Member, Scholarship Committee.

UNLV Student Chapter Staff Advisor, Provide guidance and help to the student chapter.

Attend Monthly luncheons (Third Thursday of the month)

Tau Beta Pi, Nevada Beta Chapter, Engineering Honor Society

Staff Advisor.

Other Service Activities

University of Nevada, Las Vegas. College of Engineering and College of Sciences. Science and Technology Day. Presented a laboratory session on Transportation. Several TRC students, staff and faculty participated in the event. November 2000.

ASCE Boy Scout Engineering Merit Badge Workshop. Conducted presentations for two requirements for the merit badge. Over 150 scouts participated. Presenters included Durgin, Kaseko, Mani, and Vodrazka, Jr.

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 Mani, Michael Bradford, and Don Durgin. February 2000.

Mathematics, Science, and Engineering Academy (MSEA). Conducted presentation on various projects conducted by the TRC and demonstrated software to students from MSEA.

TRC and the UNLV ITE Student Chapter hosted the April 2000 ITE professional chapter luncheon at UNLV.

6. Graduate Students Advised & Graduated

Tallapragada, Jyothi. *Development of a GIS-Based Framework for Evaluating Parking and Space Utilization*. September 2000. (Advisor: Nambisan)

Cui, Zhen-Zhong. *GIS-Based Evaluation of Mid-Block Pedestrian Crossing Safety*. May 2000. (Advisor: Nambisan)

Rowe, Curtis. *Evaluation of Trip Generation Rates of Hotels and Casinos*. Spring 2000. (Advisor: M. S. Kaseko).

7. Honors and Recognitions

Erin Breen

“Best Pedestrian Safety Programs” Presented by the Regional Transportation commission of Southern Nevada, Las Vegas, NV December 2000.

Plaque of Appreciation for “Caring Enough to Make a Difference! Our Deepest Respect and Gratitude,” Presented by Stop DUI, Las Vegas, NV July 2000.

Phil Bury

ASCE Scholarship, Southern Nevada Branch and Nevada Section, Fall 2000 (Cash award \$500).

American Public Works Association Scholarship, Spring 2000 (Cash award \$2,000).

Society of American Military Engineers Scholarship, Spring 2000 (Cash award \$500).

Donald Durgin

ASCE Scholarship, Southern Nevada Branch and Nevada Section, Fall 2000 (Cash award \$1,000).

Institute of Transportation Engineer Scholarship, Nevada Section, Spring 2000 (Cash award of \$500).

ASCE Membership Drive Chair, First Place Zone IV Wright Level Membership Drive (Cash award to Student Chapter \$500).

ASCE Scholarship, Southern Nevada Branch and Nevada Section, Spring 2000 (Cash award \$500).
Stocker Engineering Scholarship, 2000. (\$1,100 per semester)

Cody Geisendorfer

2000 Student Scholarship, the Nevada chapter of the Institute of Transportation Engineers. (Cash award of \$500)

Mani Mani

Future Business Leaders of America, Nevada Region, Second Place, Chapter Website Competition representing Southern Nevada Vocational Technical Center. Las Vegas, NV, May 2000
Future Business Leaders of America, Nevada Region, Fifth Place, Microsoft Word Competition representing Southern Nevada Vocational Technical Center. Las Vegas, NV, May 2000

Shashi Sathisan Nambisan

Recognized by President Harter during her "Research at UNLV" presentation to the Board of Regents at the November meeting.

Plaque of Appreciation for "Help and Support of ASCE Activities throughout the 1999-2000 Academic Year." From the ASCE Student Chapter, UNLV. April 22, 2000.

Outstanding Faculty Member. Univ. of Nevada, Las Vegas. Recognized at a UNLV Basketball Game at the Thomas & Mack Arena, UNLV. March 4, 2000.

Outstanding Faculty Member at UNLV for 1999-2000, Univ. of Nevada System Board of Regents. February 10, 2000. (One of 8 faculty members honored from UNLV).

Walker Von-Brimer Foundation (Carlsbad, California) Award for creative research. January 2000.

Edward Neumann

Van Waggoner Award Winner for ITE District 6, Awarded to the outstanding paper published in the *ITE Journal* by a District 6 Author, paper "Las Vegas - A Showcase for Automated People Mover Technology". *ITE Journal*. March 1999: 69(3), pp. 36-41.

Diane Pidsosny

Plaque of Appreciation for "Caring Enough to Make a Difference! Our Deepest Respect and Gratitude," Presented by Stop DUI, Las Vegas, NV July 2000.

Walter C. Vodrazka, Jr.

Plaque of Appreciation for "*His Hard Work, Dedication, and Countless Hours Toward Helping the Student Chapter Set and Attain Goals that Seemed Unreachable Throughout the 1999-2000 Academic Year.*" From ASCE Student Chapter, UNLV. April 22, 2000.

Plaque in Recognition of "*Your Distinguished and Outstanding Service While Serving as Practitioner Advisor.*" From ASCE Southern Nevada Branch, Las Vegas, NV. August 2000.

8. Workshops and Conferences Attended

Michael Bradford

2000 Fall Transportation Conference, Las Vegas, NV, September 2000.
Stand Tall, Don't Fall Leadership Camp, Las Vegas, NV, July 2000.

Erin Breen

Nevada Joining Forces, Las Vegas, NV, November 2000.
State DUI Conference, Mesquite, Nevada, October 2000.
Stand Tall, Don't Fall Leadership Camp, Las Vegas, NV, July 2000

Phil Bury

2000 Fall Transportation Conference, Las Vegas, NV, September 2000.
ASCE, Pacific Southwest Regional Conference, Tucson, Arizona, April, 2000.

Donald Durgin

2000 Fall Transportation Conference, Las Vegas, NV, September 2000.
Stand Tall, Don't Fall Leadership Camp, Las Vegas, NV, July 2000.
ASCE, Pacific Southwest Regional Conference, Tucson, Arizona, April, 2000.

Mohamed S. Kaseko

2000 Fall Transportation Conference, Las Vegas, NV, September 2000.

Mani Mani

2000 Fall Transportation Conference, Las Vegas, NV, September 2000.
Stand Tall, Don't Fall Leadership Camp, Las Vegas, NV, July 2000.

Shashi Sathisan Nambisan

2000 Fall Transportation Conference, Las Vegas, NV, September 2000.
Sixth International Conference on the Applications of Advanced Technologies in Transportation Engineering, Singapore, June 2000.
International Air Transportation Conference (26th), American Society of Civil Engineers, San Francisco, CA, June 2000.

Stacy Paul

Nevada Joining Forces, Las Vegas, NV, November 2000.
Stand Tall, Don't Fall Leadership Camp, Las Vegas, NV, July 2000.

Diane Pidsosny

Nevada Joining Forces, Las Vegas, NV, November 2000.

Enforcing Underage Drinking Laws: Working Together; Celebrating Successes Conference, Reno, NV, October 2000.

Enforcing Underage Drinking Laws, Seizing Opportunities and Overcoming Challenges Conference, Dallas, TX, October 2000.

Work Performance Standards Training Session, Conducted by State of Nevada, Las Vegas, NV, August 2000.

Employee Appraisal for Supervisors Training Session, Conducted by State of Nevada, Las Vegas, NV, August 2000.

Stand Tall, Don't Fall Leadership Camp, Las Vegas, NV, July 2000.

Combating Underage Drinking Conference, Washington D.C., June 2000.

Environmental Prevention Strategies Workshop. Conducted by Pacific Institute for Research and Evaluation, Las Vegas, NV, May 2000.

Srinivas S. Pulugurtha

2000 Fall Transportation Conference, Las Vegas, NV, September 2000.

District 6 Annual Business Meeting, San Diego, CA, June, 2000.

ESRI User Conference, ESRI, San Diego, CA, June 2000.

GIS-T Conference, AASHTO, Minneapolis, MN, March 2000.

Transportation Research Board 79th Annual Meeting, Washington, D.C., January 2000.

Joythi Tallapragada

2000 Fall Transportation Conference, Las Vegas, NV, September 2000.

District 6 Annual Business Meeting, San Diego, CA, June 2000.

ESRI User Conference, ESRI, San Diego, CA, June 2000.

Walter C. Vodrazka

American Society of Civil Engineers International Conference, Seattle, WA, October 2000.

American Society for Engineering Education Annual Meeting, St. Louis, MO., June 2000.

ASCE, Pacific Southwest Regional Conference, Tucson, AZ, April 2000..

ASCE Zone IV Leadership Conference, Vancouver, BC, February 2000.

Walter C. Vodrazka, Jr.

Texas State DUI Conference, Dallas, TX, November, 2000.

ASCE International Meeting, Seattle, WA, October 2000.

Nevada State DUI Conference, Mesquite, NV, October 2000.

2000 Fall Transportation Conference, Las Vegas, NV, September 2000.

Stand Tall, Don't Fall Leadership Camp, Las Vegas, NV, July 2000.

District 6 Annual Business Meeting, San Diego, CA, June 2000.

ASCE, Pacific Southwest Regional Conference, Tucson, AZ, April 2000.

ASCE Zone IV Leadership Conference, Vancouver, BC, February 2000.

APPENDIX A

**SUMMARY OF EXPENSES IN CALENDAR YEAR 2000
BY PROJECT ACCOUNT NUMBER AND OBJECT CODE**

APPENDIX B
List of Employees and Volunteers at the TRC
During the Calendar Year 2000
Faculty, Staff and Student