

LOCAL ROAD RESEARCH BOARD
2009 Spring Meeting
March 5, 2009
Stearns County Public Works Building
455 28th Avenue South
Waite Park

Chairperson Deb Bloom, called the meeting to order. Introductions followed.

Members Present:

Bruce Hasbargen, Lake of the Woods County
Sue Miller – Freeborn County
Mitch Anderson – Stearns County
Deb Bloom, Chair, City of Roseville
Rick West, Ottertail County Engineer
Ken Saffert, Mankato City Engineer
Keith Shannon, Office of Materials, Mn/DOT
Julie Skallman, Office of State Aid, Mn/DOT
Cory Johnson, Research Services Section, Mn/DOT (Acting Secretary)
Bob Johns, Center for Transportation Studies, U of M

Others Present:

Ann McLellan, Research Services Section, Mn/DOT
Linda Preisen, Center for Transportation Studies, U of M
Maureen Jensen, Office of Materials, Mn/DOT
Sheila Hatchel, Library, Mn/DOT (portion of the meeting)
Jake Akervik, Research Services Section, Mn/DOT (portion of the meeting)
Jim Grothaus, Center for Transportation Studies, U of M
Dan Gullickson, Office of Environmental Services, Mn/DOT
Kathy Schaefer, Maintenance, Mn/DOT (portion of the meeting)
Ken Simons, Retired
Linda Taylor, Maintenance, Mn/DOT (portion of the meeting)
Mindy Carlson, CTS, U of M (portion of the meeting)

Recorder: Laurel Janisch, Administrative Assistant

Chairman's Report

Welcome New LRRB Members – Bruce Hasbargen, Lake of the Woods County was welcomed as a new member.

Agenda Review

Deb Bloom reviewed the agenda and was approved by consensus.

December Meeting Minutes

Rick West moved, seconded by Mitch Anderson, to approve the December meeting minutes Motion carried.

LRRB and RIC rosters

- Chair Deb Bloom presented Ken Saffert with a LRRB plaque for his service.
- A plaque has also been prepared for Sue Lodahl, who will serve as Assistant Maintenance Engineer for Mn/DOT.
- Steve Koehler, City of New Ulm, will be appointed as of April 1 for a 4 ½ year term.
- City Engineers terms will still be staggered.
- Chair Bloom signed a thank you letter for Mark Maloney.
- This will be Mike Sheehan's last year on the RIC.

2008 RSS Annual Report

Cory Johnson highlighted the formation in the Research Services 2008 Annual Report, which consists of technical reports, LRRB Research Board At-A-Glance brochure, and a DOT Research Services At-A-Glance brochure. The Annual report is available on the Mn/DOT website:

<http://www.dot.state.mn.us/research/index.html>

There was a discussion the LRRB timeline indicating several projects were behind schedule. The report included LRRB projects.

Suggested Report Changes:

- Annual Report web address should be distributed to city and county engineers.
- Web address should be sent for the LRRB Research program
- Provide both hardcopy and e-mailed to cities and counties.
- LRRB timeline should not be include in future issues
- Include the LRRB funding commitment
- Include a legend with percentage complete added
- Add LRRB logo on the projects that funded through LRRB
- Add page numbers to the report
- Add a list of investigations near the Table of Contents

Annual Report Preference

Julie - prefers hard copy

Maureen – preferred hard copy

Bloom – prefer hard copy

Bruce Hasbargen – prefers hard copy

Linda Preisen – prefers hard copy

Action Item: RSS will send a hard copy of the Annual Report to each of the cities and counties.

Action Item: RSS will prepare a list of active LRRB project for the next meeting.

LRRB Budget Status Report

Ann McLellan highlighted the major changes in the FY09 LTAP program. CTS and FHWA met and tried to bridge the differences between calendar year and fiscal year and decided all programs will be on a fiscal year schedule. CTS would take a smaller amount and this ended up being a huge saving to the LRRB. The new contract will be in place in July, and the new funded projects noted on the spreadsheet. FY 09 funds can be rolled over. Refer to the handout for a summary of the LRRB fund for FY 2009-2013. Below briefly summarizes the current status:

Fiscal Year	Balance	Notes
FY09	-\$30	Deficit
FY10	\$135,656	Balance after deducting the research projects approved today
FY08	\$7,103	INV999 account
FY09	\$36,403	Remaining in the contingency fund.
	\$179,162	Spend able Assets
	30,000	Gupta Diwakar's Project (Not approved for funding
	\$149,162	Balance

LTAP, OPERA, TERRA, Contingency and Library will remain the same. Historically, MnROAD and Research Services will request more funds, and if not approved, the budget can be adjusted to reflect these changes. .

Mn/ROAD amounts are broken into two lines, rather than one, as they are for two different projects.

Gupta Diwakar's project entitled "Performance Based Transportation Construction Contracts" for \$30,000 has not been approved for funding at this time. The list of projects reflects only approved projects,

Julie Skallman moved, seconded by Sue Miller, to hold the \$30,000 cost share for the group performance-based transportation construction contract until the LRRB June meeting. Motion was unanimously approved

INV 999 Status Update

LRRB Administrative account covered the costs for U of M CTS publishing of reports, LRRB website maintenance, meeting expenses, travel, registration fees, etc. FY08 balance is \$7,103 can be rolled over and available for future expenses. FY09 funds will be used to cover the cost of printing of report (\$5,000). Remaining balance is \$44,703.

New accounts have been setup for Research Services Section INV675 and \$130,000 transferred to this account. The outreach task has been moved under INV645 account.

Upcoming LRRB Meetings

Dates	Meeting	Location	Times
June 2-3, 2009	LRRB Summer Meeting	Treasure Island Resort Red Wing	9:00 – 3:00
Sept. 24, 2009	LRRB Fall Meeting	Mankato Intergovernmental Center	8:00 – 4:30
Nov. 16, 2009	LRRB Program Review	Video Conference Rooms	1:00 – 5:00
Dec. 9-10, 2009	LRRB Winter Meeting	U of M and Bridge Office	8:00 – 4:30
March 4, 2010	LRRB Spring Meeting	St. Cloud	8:00 – 4:30
TBD Summer 2010	LRRB Summer Meeting	Voyageur’s National Park Lake of the Woods Co.	9:00–3:00
Sept. 23, 2010	LRRB Fall Meeting	MnROAD	8:00-4:30
Nov.17, 2010	LRRB Program Review	Video conference Rooms	1:00 – 5:00
Dec. 8-9, 2010	LRRB Winter Meeting	U of M and Maplewood Lab	8:00 – 4:30

The LRRB Summer meeting will be held at the Treasure Island Resort and Casino on June 2 and 3rd. The location was selected based on competitive bidding process. Julie Skallman suggested that in the future we solicit three locations and try to avoid politically sensitive locations. September 24 meeting will be held in Mankato. Ken will no longer be a board member, but work with Steve. Ann will ask for bids for the June 2010 meeting between the 7th and 11th.

Action Item: Bruce Hasbargen will forward Ann possible meeting facility locations for the June 2010 meeting.

Action Item: Ann wants to remind all members that meeting expenses should be sent to her for reimbursement.

Action Item: City and county representative are strongly encouraged to use personnel vehicles when traveling to LRRB Spring Meeting because of public perception concerns.

LRRB RIC Committee Report

Cory Johnson and Rick West attended the RIC meeting and reported that the RIC would like two road map products developed. One product titled Best Value and the other for a product titled Large Traffic Generators.

The Large Traffic Generators product has 2 elements that need to be considered. One, a best practices guide for local agencies to use in dealing with large traffic generating sites. Two, would be a calculator for the roadway consumption and costs attributed to large traffic generating sites. The LRRB discussed and is also interested in both elements but possibly more interested in the best practices guide.

Action: The LRRB instructed RSS to prepare a proposal and present it at the next meeting during the joint LRRB and RIC session.

The Best Value Procurement product is focused on innovative contracting and trying to build a training element. The LRRB discussed this topic and has a large interest in providing some support to this required training component.

Action: The LRRB instructed RSS to prepare a proposal involving the LTAP and present it at the next meeting during the joint LRRB and RIC session

Past Conference Reports

TRB nuggets

Ann said that TRB expenses for January 2009 are included in the figures. Julie Skallman discussed TRB nuggets. She will continue to e-mail if that is okay. Nancy also sends the information electronically.

Pavement Conference

Maureen Jensen updated members about the pavement conference. She reported that that attendance was down this year with 170 registered and 160 attended, whereas last year 230 attended. Only 26 attending were from cities and counties. Maureen stated that this was the first year TERRA took a more predominant role in sponsoring the event. The conference format was expanded to include not only technical, but also included investing in pavements. The keynote speaker was an economist talking about looking at things from a risk management perspective. She is hopeful the participation will increase at next year's conference.

Bob Johns said that the CTS Research Conference will be held in May 18-19th at the Radisson South in Bloomington. There is a great luncheon speaker, Tom Vanderbilt. Traffic – How will it Teach Us What We Don't Know About Ourselves. Rick West said that he will be a presenter.

Action Item: Julie will send a reminder notice in mid-April for the LTAP Conference. Contact Julie if you are interested in attending any of the upcoming conferences.

Upcoming Conference Approvals

Chair Bloom explained that a number of conferences are planned for 2009.

Dates	2009 Conferences	Attendees	Allocation
March 15-18, 2009	AAPT Technology Conference	Roger Olson John Garrity	2 Mn/DOT Staff
March 10, 2009	ITS Minnesota Annual Meeting		
April 14-15, 2009 Oct. 7-8, 2009	Fall & Spring Maintenance Expo	Mitch and Rick sending representatives	Open to all LRRB & RIC Members (only 1-3 submit expenses)
May 19-20, 2009	CTS Research Conference		Open to all LRRB & RIC Members (only 1-3 submit expenses)
July 27-30, 2009	National LTAP conference Pittsburgh, Pennsylvania,		6 RIC local Members 3 LRRB members 1 Mn/DOT Research Staff Offer to LTAP Steering Committee if above don't attend
Aug. 29-Sept. 2, 2009	International Conference on Cold Regions in Duluth		
Aug. 23-27, 2009	National Rural ITS Conference	Sue Miller and Rick West	2 LRRB members
Oct. 13, 2009	ITS MN Fall Forum		Open to all LRRB & RIC Members only 1-3 usually submit expenses.
Oct. 28-29, 2009	Toward Zero Deaths Conference		Open to all LRRB & RIC members
Jan. 2010	TRB –Washington DC		6 LRRB local members 2 RIC local members 3 LRRB Mn/DOT members 1 LRRB CTS member 6 Mn/DOT Staff (5 materials, 1 research)
Feb. 2010	Mn Pavement Research Conference St. Paul		Open to all LRRB & RIC Members only 1-3 usually submit expenses.

FY 10 Annual Program Funding Requests

INV 676 MnROAD

Presenter: Maureen Jensen

Costs: \$570,000

Maureen would like continued funding support of \$500,000 from LRRB. In addition, she is requesting \$70,000 for Technology transfer and support, which is \$10,000 more than the current amount. Maureen stated they are very pleased with past funding from LRRB. She said that the book she prepared summarizes the projects that they have undertaken with LRRB funding.

Maureen briefly summarized the tech transfer and support that was provided. They had hired a new concrete engineer, Ryan Rohne. Tom Wood has returned and will be providing technical support for asphalt and recreational trails.

MnRoad reconstruction is progressing with sensors being installed and maintained, a lot of testing underway, and investing in GPS technology for n low volume roads and resuming operation. Thirty-two cells have been constructed or reconstructed. Major effort is being taken to improve data quality and usability. The database has been redesigned.

A new roadway loop has been established in stockpile area to Implements of Husbandry to research the impacts of farm equipment on low volume roads. Lev Khazavonich of U of M is lead investigator. They are measuring response, using lighter roads first, by contrasting farm vehicles with load of typical study.

Warm mix asphalt was considered with Mn/ROAD reconstruction. There are lots of potential environment benefits for warm mix asphalt. In 2007-8, there were warm mix asphalt test sites in Olmstead, Goodhue Counties, and Crow Wing County.

Full Depth Reclamation is a hot topic. MnRoad has been testing and evaluating those sites. Common problem this year is with tenting.

Maureen reported some additional applications for Recreational trails. Roseville City news discussed the test section built on the trails. Work is underway to define a trail management system to help identify when trails need to be maintained and to identify safety issues.

Other studies include: Fly Ash Study, Acid Modification Study. FHWA has started a national study in lab to do field comparisons. There will be a National Conference on this study here in April.

She discussed the seven pooled fund projects and the 15 Minnesota projects and the SHRP II project. Maureen discussed the funding breakdown for MnROAD Phase 2. The MnROAD Phase 2 costs \$10.9 million.

INV 869 TERRA

Presenter: Julie Skallman

Cost: \$12,500

Julie Skallman noted that the Board has supported TERRA at the \$12,500 funding level. She asks that LRRB continue funding at that level \$12,500. TERRA sends information electronically to keep costs in track. Because we have members from industry, they are very interested in getting research reports and technology quickly. Therefore, Industry appreciates the technology reports. NYDOT has joined TERRA, and Wisconsin will probably also join. Denmark and Sweden are also considering becoming members. Mn/DOT also contributes \$12,500. Maureen said that the U.S. Forest Service is also interested in joining TERRA. Their interest is low volume roads. In addition, Khani is attempting to get Iowa involved.

INV 745 Library

Presenter: Sheila Hatchell

Cost: \$70,000

Sheila Hatchell, Mn/DOT's library director said she has been in that position since 2007. The library receives \$60,000 from the LRRB. If additional funding is available, the library would request an additional \$10,000 for new initiatives.

Sheila explained that 2008 was a year of outreach to local officials. The APWA directory was updated and data base of e-mail addresses used to contact local agencies. Each month all the people on the mailing list get a copy of new library materials. Mike Marti presented information about the Mn/DOT Library Services at the 2009 City and County Engineers meetings. They provide research services to those who need information and consider Mn/DOT and local officials important clients.

The library can provide lists of literature on the requested topics, loan materials from the library, and receive loan materials from other partner libraries. The library also provides current and previous ASTM standards. New materials are being purchased for the library and it also receives requests from city and county officials for materials they would like to borrow. She also has information available on searching PDF documents. LRRB Research reports are cataloged with information regarding authors and subjects and it is put on the World Wide Web. Paper research reports are archived in the library and they are also archived in the legislative library. The library is in the process of scanning older reports and wants to put a link on the Internet. The library would like to do a complete project of scanning documents to catalog records.

She said that this is behind the scenes work and that a number can't be assigned to these activities. The roundabout DVD was mailed out to many people this year. The library is working to resolve author problems and is attempting to catalog newly received materials to make materials easy to locate by anyone with an Internet connection. The maintenance of periodicals collection is highly labor intensive. The Library web site is continually updated to include the best transportation web resources available. Subscriptions, licensing, authentications for electronic resources are getting more and more complicated.

The library prepared an internal business plan. Library goals for 2009 include holding focus groups and inviting city/county officials to participate, replacing outdated materials with current editions, creating a library advisory board, creating a technology plan and evaluating library space needs. She is requesting the continued funding of \$60,000. Julie said that it has been a long time since library funding was increased.

INV 668 LTAP

Presenter: Jim Grothaus, Kathy Schaefer, Linda Taylor, and Mindy Carlson

Cost: \$370,000

Jim is requesting \$370,000 for the LTAP, which is split into five-part request:

CTAP: \$158,500, (\$85,000 CTS and \$74,500 Mn/DOT)

Career Expo: \$5,500

Maintenance Expo: \$26,000

CTS Annual Base Funding: \$185,000

Funding from LRRB supports 3.4 positions. CTS prepared the FHWA performance technical report yearly. The newsletter is sent quarterly with a distribution of around 6300.

Jim represents the region on the LTAP National committee. CTS will be delivering new tasks:

- Pavement Rehabilitation Class (three filled classes delivered)
- Pavement Conference, they provided videotape and audiotape for the conference.
- Stormwater and Erosion Control Workshop

CTS support the spring and Fall Maintenance Expos with approx. 1500 - 2000 people attend the Fall Maintenance Expo and 150 vendors.

Kathy Schaefer presented highlighted the CTAP program and discussed possible changes for Best Management Practices. This year we used a different format for delivering Snow and Ice Material Workshop by bringing the workshop around the state. Mindy explained the LTAP Family brochure and the Road Scholar Program. She said that the maintenance workers really appreciate the Road Scholar program.

Commissioner Sorel presented the Road Scholar certificates at this years Spring Maintenance Expo. The program has evolved from first year were they had one graduate to this year with 23 graduates. LTAP would like to add Diesel Mechanic Training this year. Motor Grader Training is being offered again this year with one-day classroom training followed by hands-on-training in groups of 3-5.

INV 998 OPERA

Presenter: Mindy Carlson

Costs: \$90,000

Mindy Carlson requested \$90,000 for the OPERA program (\$20,000 administration and \$70,000 for research projects). She explained the OPERA Program is working on streamline the process. OPERA received nine proposals this year and were able to approve every dollar. She can't emphasize enough the appreciation of those who participate in the program. This program provides low cost, high value programs. Keith inquired if they are requesting a change in funding and Jim replied that they are requesting the same amount.

INV 999 Administrative Support

Presenter: Ann McLellan

Costs: \$107,975

Ann stated that CY 2006 through FY 09 funding levels was at \$107,975. Ann discussed funding split for INV 999 (Administrative Support) and INV 675 (RSS). For INV 999, she showed a PowerPoint of the figures and handed out a table. She removed outreach consultants from the budget, the website expense remains the same, meeting expenses remain the same, and registration fee remains at \$3,000. We moved RSS salaries under INV 675. We are moving outreach and RSS out of INV 645.

For FY10, the budget for INV999 is \$107,975 compared to FY09 which was originally approved at \$249,975. At the June meeting \$10,000 was added, then \$17,000 removed to cover the Outreach activities, and \$130,000 moved to INV645. The actual budget was \$112,975. Our funding request for FY10 is \$5,000 less.

Additional services provided: Roadmap Process coordination, Quarterly meeting coordination, meetings with Lab and CTS, LTAP project coordination, RIC program and meeting cooperation, Travel coordination for LRRB contracts, AL for outreach task, Innovation update work, and printing using Mn/DOT's reprographics unit.

INV 675 RSS

Presenter: Ann McLellan

Costs: \$160,000

Ann is requesting \$160,000 for FY10. The original allocation for RSS was at \$130,000 and we are requesting an additional \$30,000 to cover the cost of the Technical Summary Resorts.

The original \$130,000 provides the following services to LRRB

- 19 Technical Summary reports were created for LRRB at \$1,800 each.
- Administrative liaison support for 50 active projects with an average life of three years, cost of \$90,000 or \$30,000/yr
- Consultant hired to create the LRRB program book for \$1800 (now being done in-house)
- Travel coordination for conferences with new travel rules taking more staff time.
- Annual Report costs \$13,222, approx. half are LRRB projects and we pay for it with Mn/DOT funds.
- Proposal coordination and development
- Contract, amendment, and invoice processing

In the past, LRRB has funded two positions. Salaries have increased and at today's rates would run \$166,000.

Tech Research Summaries are being requested and provide means of getting the project results out to agencies. Two page, technical summaries are created for each report. TRS reports are done on an as-needed basis. CTC produces technical summaries.

Street Tree Master Plan

Presenter: Dan Gullickson

Cost: \$30,000

Dan requested \$30,000 for the Street Tree Master Plan to prepare materials and a Power Point presentation (Up to \$15,000) and an additional \$15,000 for Research Studies.

Dan works for Mn/DOT as a forester with Urban Forester background. He was asked to speak on Street Tree Master Plan. Ken Simons was instrumental in securing funding for a Master Tree Plan. They are working to get additional dollars to promote this tool and working to minimize conflicts between trees and infrastructure, which will hopefully be accomplished through brochures and PowerPoint demonstration. They are requesting these funds from the LRRB. Cities and counties need to be assessed to determine whether they will maintain them. Thoughtful tree planning will announce areas of interest in the community and affect the quality of the streetscape. Costs will be minimized, as large trees wouldn't need to be removed and more than

one species should be planted to avoid disease of the entire population. Kent discussed the issue of tree diversity in neighborhoods. If design principles are followed, you don't lose all the trees. From a maintenance standpoint, the same species grow at the same rate, making it easier to care for them. The U of MN would develop the materials, and distributed through the League of Minnesota Cities and Superintendents of Parks, etc. Trade shows or conventions would also be good means for distribution. The Power Point presentation could be added to the website. Ken Saffert asked if the master plan specifies certain types of trees for county roads. Dan Gullickson said that it piggybacks with a program called plant selector. Sue said that this is a critical product and believes most cities will cut tree planting out of their budget in these economic times.

Website Usability Study Report Update

Presenter: Jake Akervik

Cost: None

Jake Akervik, Communications Coordinator for Research Services said to put our minds at ease, he isn't requesting any additional funds. He will discuss usability. Usability is a quality attribute that assesses how easy user interfaces are to use. The word "usability" also refers to methods for improving ease-of-use during the design process. Usability is defined by five quality components: Learn ability, Efficiency, Memo ability, Errors, and Satisfaction. The word "usability" also refers to methods for improving ease-of-use during the design process.

Jake discussed the LRRB Website Usability Testing Update. He noted that the last LRRB Website Usability Study was completed in June of 2004. The Current Usability Study is being conducted by a University of Minnesota class. Testing is conducted in a professional Usability lab. The results will be presented Tuesday, April 28. Jake explained that the LRRB website is reviewed by classes at the University of Minnesota. They have professional level equipment. Results will be presented April 28, between 5:30-8:00. The class, Social Media on Public Sector Websites uses digital technology, Face book, U-Tube, Twitter, etc., to advance communication on the web. With Web 2.0 it's an umbrella term to describe rapidly evolving tools and practices. He discussed examples of Social Media and Web 2.0 technologies. The meeting he attended discussed government security and access issues. We need to get information to the public, not just using our websites, but through commonly visited venues. He has good ideas for how to use this information for LRRB. Sue asked if there is enough bandwidth to handle 2.0 streaming. He said it is a concern. The presenter at the conference said it is probably best to try varying methods at this time and see how they progress. Sandy McCully is working on the LRRB website. Ideally, it should be completed monthly, but it depends upon time, as it takes quite a bit of time. They don't currently have an automated way of updating the LRRB website, but rather it is a continuous cycle to keep updating the website. Call Jake if you need any information or have a question.

4. **Knowledge Building Brainstorm Session**

Linda Preisen said that Knowledge Building Brainstorming Session exercises were initiated in 2005. University researchers studied the ideas with the highest priorities with regard to the four strategic areas of construction, design, operations & maintenance, and environmental compatibility. Ten proposals have been funded during the past three years with funding provided by LRRB, Mn/DOT and ITS. Linda noted that it has been four years since we did a full update of the knowledge process. Linda reviewed the potential criteria for knowledge-building priorities and reminded members to think big—issues problematic for the next 5-10 years that won't be resolved in 10 years. The top ranked projects would have workshops with U of MN researchers and CTS would prepare a page write-up and then post with a RFP.

Julie Skallman and Chair Bloom would be a part of the workshop, as well as any interested parties. The results of this would be discussed at the LRRB Summer meeting. Cory asked how this information is communicated to PI's. She would envision the top ranked knowledge builders. They would invite participants and researchers. Below are the result of the brainstorming topic by area and some brief discussion points:

Design Topics

- Maintenance free pavement
- Livability of communities.
- Market-driven pavement decision making
- Automated design
- Funding and financial issues due to more efficient vehicles and more mass transit.
- Education and Outreach
- VMP pricing and implications to local government
- Green House Gas reduction goals
- Roadway Safety and what can and can't be built to standards
- Major traffic generator (IE. Ethanol Plants) and impact on low volume roads and funding.
- Long-term climate changes
- Adaptation beyond stormwater

Discussion points: Julie pulled design items from strategic plan. Chair Bloom asked if the intent of this process is new ideas or to reaffirm old ideas, as well. Ann McLellan questioned what will happen with the upcoming gravel shortage. Deb discussed persuasive citizen advocates, but still difficult to sell to citizens. The brand of elected officials is heavily molded by advocates. There is a changing political climate and public interest groups definitely influence decision process. Bob is tracking reauthorization. Some focus needs to be changed to look at entire right-of-way in reference to safety. Mitch noted that right-of-way costs exceed

construction. Julie suggested long-term climate changes and adaptations beyond stormwater, vehicle size and safety and questioned whether PRT will affect Minnesota somewhere along the way. Bruce suggested design options for limited dollars and Ken discussed conflicts between smaller cars and larger trucks on same road, how to manage higher speeds on roads, modern rail traffic and how it fits into the picture.

Construction Topics

- Certified road products,
- Prefab products
- Reduce plans and specs,
- Eliminating low bid award
- Turning clay soil into structural aggregate
- Innovative construction methods,
- Risk based permits, with preconstruction,
- Subsurface drainage construction techniques
- Levels of government subsidies,
- Long-term warranties,
- BMT policy
- Public and private partnerships.

Operations of Maintenance Topics

- Solar powered snow melt,
- Glowing striping without beads,
- Salt tolerant non-growing groundcover.
- New lighting fixtures
- High tech pavement markings and low tech installation,
- Public forces vs. contractor maintenance;
- Systems operation,
- Transit advantages,
- ITS,
- Jurisdictional boundaries;
- Smarter bridge monitoring and inspections
- Environmental compatibility
- Cost/benefit of policies that allow waterways
- Future de-icing and chemicals,
- Streamlining permitting process,
- Salt substitutes to reduce pollution;

Operations and Maintenance Topics cont.

- Congestion and fuel consumption issues;
- Dealing with multiple advocacy groups,
- Understanding role of roads in community;

- Total value of reuse of recycled materials and consideration of value to society rather than just value to road;
- Job switching/house switching-creating less traffic.
- Environmentally safe ways to manage vegetation,
- Funding legislative mandates (IE. Environmental goals;
- Adaptation to changing demographics.
- Solar panel street lights,
- Greenhouse gas reduction and how to respond to those goals.

Keith stated that safety competes with some of these issues because reconstruction efforts can keep up with demand. Sue said that she believes fatalities will begin to increase as population ages. CTS will further categorize these areas. If they need help prioritizing she will let members know. All participants will be invited to participate as well as others. Workshops will be schedule in May and June.

5. Research Program Review

a) Mn/DOT Research Program FY 10

The LRRB Spring meeting makes funding decision on the on-going program funding commitments, every third year on RIC funding, and approves the next year's travel budget. Information on projects completed during the past year is provided.

Cory reviewed results from Mn/DOT's ten proposals. He noted that the TRIG group used a similar process and selected 16 projects for funding.

Mn/DOT decided to match the LRRB funding on Oversize Culverts and 50% funding on Cost Effective Pavement Preservation Solutions for a Real World. Gupta D. Walker's "Performance Based Transportation Construction Contracts" project was not funded by TRIG. LRRB will retain \$30,000 in budget and this project will be looked at again. Julie said Michigan may fund this project.

Action Item: Cory will send e-mail notifying them that problem statements can be submitted in April.

IT'S Institute Program

Linda explained the ITS Institute funded program for this year. She said that this year's focus is on intelligent transportation systems. Nine proposals were funded. The tech plan project is the Humphrey Institute's arm of our program.

6. Revisit Partially Funded Project Proposals

Cory noted that “Performance testing of new scour Countermeasures Practices” (P2010036) at total cost of \$78,093 (funding split 2010: \$76,940 and 2011:\$3,847) will be put on hold until the March meeting. The Bridge Office has not commented on this project yet. Nine proposal were funded, 2 programs were funded and 3 lab funding projects.

Several project proposals (Street Tree Master Plan, Best Value Request, Best Management Practices) have been forwarded from the RIC for consideration.

11. Funding Decisions and Summary

Motion to Fund FY10 on-going program funding commitments:

Program Account	Initiative	FY2009	FY2010
INV 668	LTAP	\$375,000	\$375,000
INV 998	OPERA	\$90,000	\$90,000
INV 676	MnRoad	\$560,000	\$570,000
INV 869	TERRA	\$12,500	\$12,500
INV 745	Library	\$60,000	\$70,000
INV 675	RSS	\$130,000	\$160,000
INV 999	Admin. Support	\$112,975	\$107,975
Total		\$1,340,475	\$1,385,475

Sue Miller moved, seconded by Rick West, to approve on-going funding commitments for FY10.

Cory moved, seconded by Ken to amend motion to increase INV 745 from \$60,000 to \$70,000 for Library. Motion Amendment unanimously approved.

Ann stated there was \$139,162 remaining in FY10 budget to be used for other proposals.

Initiative	FY2010
Street Tree Master Plan Case Study & PowerPoint	\$20,000
Best Value Request \$30,000 using RIC funds	\$30,000
BMP for large Traffic Sites Literature search & refine scope	\$10,000
Total Dollars Approved	\$60,000

Street Tree Master Plan Request

The street tree program is requesting up to \$15,000 to prepare PowerPoint presentations and an additional \$15,000 for research studies. U of MN could prepare materials and create PowerPoint presentation with Gary Johnson. That was \$15,000, another outreach activity. Julie said that we could give \$20,000 to develop a couple of case studies and prepare PowerPoint website. If we funded them and they prepared materials, LTAP could consider whether ready for short course.

Motion by Julie Skallman, seconded by Bob Johns to designate \$20,000 for the Street Tree Master Plan. Technical Advisory Panel to work on this. Motion unanimously approved.

Best Value Request

Large traffic sites - \$30,000 RIC could run this task. The real need is a training course. RIC made motion to refine the project scope and o prepare cleaner work scope and bring to RIC. Could we put money on these projects for earmarks.

Julie moved, seconded by Rick West, to earmark \$30,000 RIC funding for Best Value proposal, with needs to include training. Motion unanimously approved.

BMP for Large traffic Site – Bob said that \$30,000 wouldn't get you far on this project and that more research is needed. Julie suggested that this project be held until FY11, at which time an RFP should be issued. She proposed allocating \$10,000 is get the project started. It was questioned who within the library would write up this up. It was suggested Bonestroo – Dale Grove may be helpful in completing this project.

Sue moved, seconded by Bruce Hasbargen, to allocate \$10,000 for the initial literature review and to provide TRS and more refined project scoping for BMP for Large Traffic Sites proposal. Motion unanimously approved.

Administrative Expenses.

Action Item: LRRB requested that RSS review the budget and break it up into logical funding categories and present these at June meeting.

LRRB Summer Meeting

The summer meeting is scheduled for June 2 and 3 at Treasure Island Casino. Sue is working with Dodge County to explore options for get together in the evening. Possible topics discussed include boating, fishing, biking, or golf outing. Rooms will be taken care of. Mileage expenses should be submitted to Ann Mclellan. The mileage reimbursement rate is \$.55 per mile this year.

Bruce moved, seconded by Mitch, to adjourn meeting. Motion was unanimously approved.