

2009 Section Activities Report Colorado-Wyoming Section Institute of Transportation Engineers April 2010





INSTITUTE OF TRANSPORTION ENGINEERS

Colorado/Wyoming Section Annual Report

For the period January 1, 2009 to December 31, 2009

Officers:

Current Officers and Committee Chairs:

President	Ben Waldman
Vice President	Greg MacKinnon
Secretary/Treasurer	Chris Sheffer
Past President	Craig Faessler
Technical Chair	Scott Thomas
Membership Chair	Melissa Rosas
Legislative Chair	Dave Krauth
Student Coordinator	Scot Lewis
Continuing Education	Karl Packer
Newsletter Editor	Kari McDowell, Bart Przybyl
Awards	Dave Hattan
Website	Duane Cleere
Activities	Eric Boivin
Golf	Jeff Ream
Section Scribe	Kari McDowell
Activities Report Coordinator	Sarah Karjala
Vendor Show Coordinator	Will Johnson

Membership:

Number	Membership Grade	Section Annual Dues Rate
<u>1</u>	Honorary	\$ <u>0</u>
<u>52</u>	Fellow	\$ <u>12</u>
<u> </u>	Fellow Life	\$ <u>0</u>
<u> </u>	Fellow Retired	\$ <u>12</u>
<u> </u>	Member 10	\$ <u> </u>
<u>316</u>	National Member	\$ <u>12</u>
<u> </u>	Member Life	\$ <u>0</u>
<u> </u>	Member Retired	\$ <u>12</u>
<u> </u>	Associate 10	\$ <u> </u>
<u> </u>	Associate	\$ <u> </u>
<u> </u>	Associate Life	\$ <u> </u>
<u> </u>	Associate Retired	\$ <u> </u>
<u>7</u>	Institute Affiliate	\$ <u>12</u>
<u> </u>	Institute Affiliate Retired	\$ <u> </u>
<u>47</u>	Student Member	\$ <u>0</u>
<u>13</u>	Esteemed Colleague	\$ <u>0</u>

**Section Affiliates** [List Each Type]:

55 Local Area Affiliate \$ 12

Financial:

Does your Section have a Federal Employer Identification Number?

Yes No

If yes, what is the number? 93-0995361

Balance of Funds on hand at the Beginning of the Reporting Period: **\$31,065.46**

Income for the Reporting Period:

Membership Dues	\$ 4,200.08	
Gross Income from Meetings	\$ 31,590.72	
Investment Income	\$ 298.28	
Advertising Income	\$ 4,531.17	
Other Principal Sources of Income:		
Activities:		
Golf Tournament	\$ 10,785.00	
Ski Train	\$ 3,235.00	
Continuing Education	\$ 1,963.65	
Student Section Income	\$ 565.00	
Total Income:		\$57,168.90

Expenditures for the Reporting Period:

Newsletter Printing/Postage	\$ 128.95	
Travel	\$ 1,267.88	
Meetings	\$ 25,474.02	
Charitable Donation	\$ 1,000.00	
Donation to ITE District 6 Endowment Fund	\$ 5,000.00	
Awards/Scholarships	\$ 2,612.92	
Other Expenditures:		
Activities		
Golf Tournament	\$10,402.93	
Ski Train	\$ 1,260.00	
Happy Hours	\$ 75.00	
Administrative Expenses	\$ 1,273.72	
Continuing Education	\$ 1,602.58	
Membership Committee	\$ 224.40	
Website Committee	\$ 95.40	
Total Expenditures:		(\$ 50,417.80)
Net Income (Expense)		\$ 6,751.10

Balance of Funds on hand at the End of the Reporting Period: **\$ 37,816.56**



Was there a change in the Section Bylaws during this reporting period? (If yes, please attach a copy of the new bylaws.)

Yes No

Technical Activities:

List Projects underway by title and, if available, provide expected date of completion:

In 2009, the Colorado/Wyoming ITE Section initiated a partnership with the Colorado Department of Transportation (CDOT) to review research publications and assist with the submission of research ideas. Unfortunately, due to budget cuts at CDOT, research funding has been limited and no activity has transpired under this partnership. The Technical Committee will pursue this further in 2010.

List Projects by title which were completed during this reporting period and, if available, attach a copy of the report:

Colorado/Wyoming ITE has a monthly *Technical Interest Column* in the newsletter. In the past year this column has included the following topics:

- *Modeling: When to Simulate* (January 2009)
- *Modeling: Is it Calibrated?* (February 2009)
- *Demand Responsive Ramp Metering* (April 2009)
- *MUTCD Updates* (September 2009), and
- *A Good Design Engineer: A Contractor's Perspective* (October 2009)

A copy of the April 2009 Technical Interest Column on *Demand Responsive Ramp Metering* is included in Attachment 1 of this report. Scott Thomas is the Chair of the Technical Committee.

Legislative Activities:

The Colorado/Wyoming ITE Legislative Committee is responsible for monitoring transportation-related policy throughout Colorado and Wyoming and reporting on matters relevant to the Section. The Committee posts a semi-regular Legislative Update in the Section Newsletter. There were four legislative articles included in the newsletters in 2009. These articles included:

- Legislative Update (February 2009)
- Colorado's Transportation Funding Crisis (March 2009)
- Colorado's Transportation Funding (April 2009)
- Legislative Update (June 2009)

The Legislative Committee also may serve as a clearinghouse for technical information, helping to connect transportation decision-makers with the expertise of the Section membership on any given subject. There were three successive Chairs of the Legislative Committee in 2009, including Gene Putman, Ken Conyers, and David Krauth.

**Meetings held during this reporting period:***Regular Luncheon/Seminars:*

Date: 01/23/09 Purpose: Vendor Show 19 Vendors
Location: Arvada Center, Arvada, CO 248 Attendees

Date: 02/27/09 Purpose: Capital Project Delivery for Colorado Springs
Location: Hampton Inn & Suites, Colorado Springs, CO 32 Attendees

Date: 05/08/09 Purpose: I-70 Mountain Corridor Active Management
Location: Embassy Suites Tech Ctr, Greenwood Village, CO 54 Attendees

Date: 09/18/09 Purpose: FasTracks Status
Location: Embassy Suites Tech Ctr, Greenwood Village, CO 80 Attendees

Date: 10/30/09 Purpose: Flashing Yellow Arrow Panel Discussion
Location: Budweiser Event Ctr, Loveland, CO 51 Attendees

Date: 12/04/09 Purpose: Continuous Flow Intersections
Location: Oxford Hotel, Denver, CO 81 Attendees

Continuing Education Workshops:

Date: 1/27/09 Type: Web Seminar
Topic: PTOE Refresher Module 1: Traffic Engineering Studies Attendance: 10

Date: 2/3/09 Type: Web Seminar
Topic: PTOE Refresher Module 2: Traffic Operational Analysis Attendance: 11

Date: 2/10/09 Type: Web Seminar
Topic: PTOE Refresher Module 3: Operational Effects of Geometric Design Attendance: 11

Date: 2/17/09 Type: Web Seminar
Topic: PTOE Refresher Module 4: Traffic Safety Attendance: 11

Date: 2/24/09 Type: Web Seminar
Topic: PTOE Refresher Module 5: Traffic Control Devices Attendance: 11

Date: 5/5/09 Type: Web Seminar
Topic: Signal Timing Fundamentals Attendance: 13

Date: 5/7/09 Type: Web Seminar
Topic: Signal Timing for Congested Conditions Attendance: 13

Date: 5/19/09 Type: Web Seminar
Topic: Signal Timing for the Development of Traffic Signal Timing Plans Attendance: 13



Date: 5/21/09 Type: Web Seminar
Topic: Advanced Signal Timing Concepts Attendance: 13

Date: 8/25/09 Type: Web Seminar
Topic: Conducting Effective Meetings Attendance: 5

Joint/Special Meetings:

Date: 4/03/09 Location: Pepsi Center, Denver, CO
Purpose: 7th Annual Transportation Symposium - Joint Symposium with Women's
Transportation Seminar (WTS) and the Rocky Mountain Chapter of the Intelligent
Transportation Society (ITSRM) Attendance: 112

Date: 6/26/09 Location: West Woods Golf Club, Arvada, CO
Purpose: Announcement of Colorado/Wyoming Section Officer Election Results and
Annual Golf Outing Attendance: 82

Date: 7/12/09-7/15/09 Location: Downtown Sheraton Hotel, Denver, CO
ITE Western District Annual Meeting Attendance: 369

Student Section Activities:

The University of Wyoming's Student ITE Chapter continues to be very active. Rhonda Young is the faculty advisor and this year the chapter has a new co-advisor, Steven Boyles. Student discounts are given to all students attending Section activities, regardless of their college affiliation. In July, thanks to the financial aid of the Section, six student members attended the ITE District 6 Annual Meeting in Denver, Colorado where the chapter received the student chapter award for District 6 for the 2008-2009 academic year. This marked the second year in a row that the University of Wyoming Student Chapter received this award. The student chapter also competed in and won the inaugural District 6 Student Traffic Bowl at that meeting. The students are hoping to retain their title at the upcoming District 6 meeting in San Francisco this summer. The Colorado/Wyoming Section awarded \$2,000 in scholarships to college students in the Section in 2009. A sum of \$5,000 was donated to the ITE District 6 Student Endowment Fund. Scot Lewis, as Student Coordinator, recommends all scholarships, provides career guidance and is the student chapter liaison.



Awards presented during this reporting period:

Award Name: *Transportation Professional of the Year Award*
Recipient's Name: Scott Thomas, Principal, Apex Design
Purpose of Award: The Transportation Professional of the Year Award recognizes notable professionalism and achievement in terms of technical contributions, project implementation success, and/or service to the Colorado/Wyoming Section during the previous calendar year.
Form of the Award: Plaque and recognition at the May luncheon meeting.

Award Name: *Lifetime Achievement Award*
Recipient's Name: Larry Corcoran, retired Traffic Engineer
Purpose of Award: The Lifetime Achievement Award recognizes continued, significant service to the transportation profession and the Colorado/Wyoming Section.
Form of the Award: Plaque and recognition at the December luncheon meeting.



SECTION ATIVITIES SUMMARY



INSTITUTE OF TRANSPORTION ENGINEERS

Colorado/Wyoming Section Activities Summary

For the period January 1, 2009 to December 31, 2009



Introduction:

Despite a tough economy, the Colorado/Wyoming ITE Section had a strong year. The Section has seen a great deal of energy in its membership, evident in strong participation, new initiatives, and new partnerships. The highlight of 2009 for the Colorado/Wyoming ITE Section was hosting the ITE District 6 Annual Meeting in Denver, Colorado. The meeting was a huge success, mainly due to the commitment of the Local Arrangements Committee and the overwhelming participation of Colorado/Wyoming Section professionals. There were 130 Section members in attendance at the conference, making up 35% of the total conference attendance. Of the 130 section members in attendance, 52 presented a paper, monitored a session, or volunteered in some other way.

The Section undertook several new initiatives in 2009. First, the Section started posting video recordings of its meetings on the Colorado/Wyoming ITE website; this allows members from rural communities to stay involved when they're not able to travel. Also new to 2009, is a Colorado/Wyoming Section Facebook page, where members can interact and stay current on upcoming ITE activities. Finally, the Section's Executive Committee took on several new tasks in 2009, including a review the Section's Bylaws, refinement of Section membership records, and the creation of an Executive Officers Handbook.

The Section also explored new partnerships in 2009; several of its members are now teaming with the Engineers Without Borders Denver Professional Chapter on a roadway design project in Jamaica. In addition, following the recommendation of a Section member, the Section explored collaborating with the Wyoming Engineering Society and considered participating in the Society's future annual conferences. Finally, the Section has been working with students and faculty at the University of Colorado Denver Downtown Campus in order to establish a new student ITE chapter.

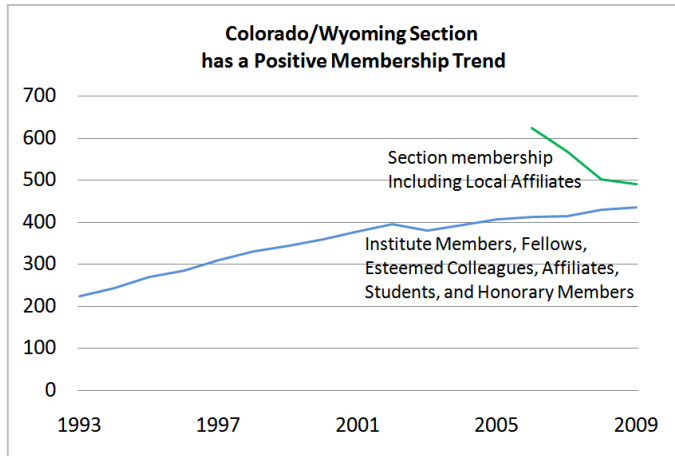
The combination of strong participation, new initiatives, and new partnerships has made 2009 an exciting and dynamic year. The members' energy and enthusiasm to move forward is what makes the Colorado/Wyoming Section a fun and meaningful organization for transportation professionals. The following report provides a summary of the Section's membership, financial status, and activities from 2009.



Officers/Membership:

The Colorado/Wyoming Section has been effective in attracting a group of diversified professionals to the Executive Committee, which consists of 17 members from the public and private sectors. Executive Committee (EC) meetings are advertised in the Section newsletter and are often attended by Section members who generate lively discussions and new ideas. This liveliness has sparked creative ideas for meeting topics, training, and career guidance.

On the surface, Section membership appears to have slightly decreased, shifting from 503 members in 2008 to 491 members in 2009. However, as illustrated in the graph below, there is a positive trend in Institute members in the Section area. The Section's Membership Chair, Melissa Rosas, took the opportunity to update the Local Affiliate membership list and refine the record keeping procedures. The decrease in Local Affiliate membership over the last several years is mainly due to the improved record keeping practices, and is also due to the Section encouraging qualified members to join at the national level.



Source: Institute of Transportation Engineers, Section Membership Committee

The Section seeks to continue to grow its membership and, in 2009, targeted two groups: public sector employees and younger members. The Section attempted to attract new public sector employees by providing discounted luncheon fees at two meetings in 2009. The Membership Committee also worked to expand the network of ITE Champions to public sector agencies. ITE Champions are public sector employees that assist in promoting the Section and its activities by posting signs and messages or personally promoting upcoming ITE events to co-workers.

The Section attempted to attract younger members by creating a Colorado/Wyoming ITE Section Facebook page, which is updated with information on all Section activities.

Finances:

As our Section members continue to be committed to ITE, the financial foundation of the Colorado/Wyoming Section remains very solid. Our finances are actively tracked and managed by the Secretary/Treasurer. To keep members informed, monthly and year-to-date budget summaries are published in each newsletter. Our fundraising abilities over the years have generated significant income for the Section which allows the Section to support several charities, reward scholarships, and fund many technical and educational opportunities for our members.

In 2009, the Section donated \$5,000 to the District 6 Student Endowment Fund and \$2,000 was given in scholarships to students in the Section. New to 2009, the Section has increased the amount of funds allocated to scholarships from \$2,000 to \$4,000.



The section gave to two charities in 2009. A sum of \$1,000 was donated to the Toyz in the Hood event held in December 2009; this event was part of a non-profit program where low-income west Denver students, who committed to necessary tutoring and received good grades, received a bike during the Holiday Season. The Section also held a Food Drive at its Holiday Luncheon in December 2009.

Section Meetings:

The Section meets approximately every six weeks at luncheon meetings, except from June through August. The meetings typically include time for networking and a technical presentation. The speaker topics at the 2009 Section Meetings included:

- A summary of Capital Delivery Projects in Colorado Springs
- Active Management of the I-70 Mountain Corridor
- The Status of FasTracks, the Denver Region's Transit Expansion Plan
- Flashing Yellow Arrow Left-Turn Signals, and
- Continuous Flow Intersections.

A joint meeting, the Spring Transportation Symposium, is held in April of each year with the Women's Transportation Seminar (WTS) and the Rocky Mountain Chapter of the Intelligent Transportation Society (ITSRM). The theme of the 2009 Symposium was Economic Transportation Solutions. The morning session included a presentation from Move Colorado, an organization with helps educate, support, and find solutions to transportation funding issues. The keynote speaker was Colorado State Senator, Dan Gibbs, who discussed the Colorado FASTER legislation and its implications on funding. **The 2009 Spring Symposium raised \$231 in scholarship funding.**

Each January the Section invites local traffic signal and signing vendors to a luncheon meeting. This event continues to grow in popularity with vendors setting up booths that allow an open house feel with plenty of interaction. This is a great opportunity for the Section to connect with vendors and learn about the latest traffic hardware technology. In 2009, there were 248 attendees at the meeting (up from 215 attendees in 2008) and 19 vendors present.

The largest meeting in the Section area in 2009 was the Annual ITE District 6 meeting, held July 12th-15th in Denver, Colorado. **There were 369 in attendance at the District 6 meeting, with 130 attendees from the Colorado/Wyoming ITE Section.** The Local Arrangements Committee, comprised of 12 dedicated Section members, organized the technical presentations, social events, and sponsors for the meeting. The theme for the meeting was Transportation in the Sustainable Energy Future. The keynote speaker was Michael O'Keefe from the National Renewable Energy Laboratory who spoke on hybrid electric vehicle technology. Beyond the technical program, the highlights of the conference were the Family Night at Elitch Gardens Amusement Park, the annual Traffic Bowl, the Brewery Pub Crawl, and the 70's theme Award Banquet.



Section Members at the 70's Themed Award Banquet during the 2009 ITE District 6 Meeting



Newsletter/Website:

The Colorado Wyoming Section published eight issues of our *Conveyances* newsletter over the reporting period. The newsletter is published every six weeks, 10 days prior to each Section luncheon. Since there are no luncheons June through August, no newsletters are published during the summer months. The newsletters are published in an electronic format and are made available to the membership through the Section website. A copy of the October 2009 newsletter is included in Attachment 2 of the report.

The newsletter content includes the president's message, scribe report, treasurer's report, committee reports, announcements that interest Section members, a monthly newsletter contest (entitled "Puzzle Maniac") that nets the winner a \$25 gift certificate, and employment announcements. The newsletter also includes a feature article called *Life is a Highway*. With a familiar and sometimes humorous style, the article's author shares his views on current local and national issues. A member profile Section interviews selected members about significant career moments and accomplishments and, on a more personal note, hobbies and interests.

The Section website, <http://www.cowyite.org/>, has been updated in recent years, and is now more accessible than ever. The website, which has an average of 40 visits per day, also won a District 6 award in 2005. The website allows members to register for luncheons, training sessions, golf tournaments and any other special event as well as pay electronically through PayPal. **In 2009, the Section began posting videos of ITE Section luncheon meetings, in an effort to reach out to remote communities within the Section's boundaries.** The Section has plans to re-design its website in 2010. In 2009, a budget was created for the redesign and companies were sought out to do the work.

Legislative Activities:

Legislative activities are actively monitored by the Section's Legislative chair. This year the chair was held, successively, by three individuals: Gene Putman, Ken Conyers, and David Krauth. Four Legislative Articles were featured in the *Conveyances* newsletter in 2009. The articles featured both nationwide and Colorado specific transportation funding issues and legislation.

In regard to national legislation, the March 2009 article provided information on the American Recovery and Reinvestment Act and the allocation of funds to the Colorado Department of Transportation (CDOT). The article also highlighted the change in budget for CDOT over recent years, which dropped from \$1.055 billion in 2008 to \$868.8 million in 2010. Local legislative topics featured information on Colorado's FASTER bill (Funding Advancement for Surface Transportation and Economic Recovery), which raised vehicle registration fees in Colorado in order to pay for road and bridge repairs. Another legislative article focused on the pros and cons of a controversial Budget Reform Bill in Colorado (Senate Bill 228).

The legislative committee also urges transportation professionals in the Section to get involved in the legislative process. The June 2009 legislative article provides information on what transportation engineering professionals can do to influence legislature on transportation funding. The article lists local organizations in each part of Colorado which meet to analyze and discuss local, proposed legislation.



Technical Activities:

In the past year, the Section has continued to promote technical activities involving research, presentations, regular and joint meetings, and continuing education programs.

An effective means of sharing innovative technical approaches continues to be the technical articles published in the Section newsletter. In the past year, this column has included the following topics and titles of short papers: *Modeling: When to Simulate*, *Modeling: Is it Calibrated?*, *Demand Responsive Ramp Metering*, *MUTCD Updates*, and *A Good Design Engineer: A Contractor's Perspective*. Scott Thomas is the Chair of the Technical Committee.

Continuing Education Activities:

Given the economic and outreach benefits of web seminars, even more emphasis was placed on this means of education. Ten continuing education seminars were conducted in 2009. Topics included: the PTOE Refresher Series (5 web seminars), Signal Timing Instruction (4 web seminars), and How to Conduct an Effective Meeting (1 web seminar). The Continuing Education Committee is headed up by Karl Packer, who has been very active in increasing the quantity and quality of our educational programs.

Student Section Activities and Scholarships:

The University of Wyoming's Student ITE Chapter continues to be very active. Rhonda Young is the faculty advisor and this year the chapter has a new co-advisor, Steven Boyles. Student discounts are given to all students attending Section activities, regardless of their college affiliation. In July, thanks to the financial aid of the Section, six student members attended the ITE District 6 Annual Meeting in Denver, Colorado where the chapter received the student chapter award for District 6 for the 2008-2009 academic year. This marked the second year in a row that the University of Wyoming Student Chapter received this award.



University of Wyoming Student ITE Chapter with 2009 Traffic Bowl Trophy

The student chapter also competed in and won the inaugural District 6 Student Traffic Bowl at that meeting. The students are hoping to retain their title at the upcoming District 6 meeting in San Francisco this summer.

The Colorado/Wyoming Section awarded \$2,000 in scholarships to college students in the Section in 2009. A sum of \$5,000 was donated to the ITE District 6 Student Endowment Fund. New to 2009, the Section has increased the amount of funds allocated to scholarships from \$2,000 to \$4,000. Scot Lewis is the coordinator of scholarships, career guidance and student chapter activities.



Social Activities:

Over 80 golfers participated in the Section's golf tournament at West Woods Golf Club in June 2009 and the event raised \$382 for scholarships. Following the tournament, the results of the Section Officer Elections were announced. The golf tournaments continue to provide an opportunity for ITE members to interact and socialize while enjoying some friendly competition.



Colorado/Wyoming Section 2009 Golf Tournament

The Section also held in its annual Ski Train outing in 2009. The Rio Grande Ski Train, connecting Denver, Colorado to Winter Park, Colorado, is the only ski train in the USA. In 2009, there were 41 attendees on the ski trip, including several of the ITE Western District board members. The group enjoyed a full day of activities including skiing, snowboarding, and snow-shoeing. After an enjoyable day on the slopes, instead of fighting traffic, the group was able to enjoy soup, sandwiches, and good company on the train back to Denver.



Colorado/Wyoming Section 2009 Ski Train Outing

Finally, regularly scheduled Happy Hours and informal poker nights provide local professionals the opportunity to socialize, network, and enjoy stimulating conversation in some of the regions finest establishments. More than one business opportunity has been discovered over a beer or glass of wine.

Awards:

The Colorado-Wyoming Section presents two awards annually – the Lifetime Achievement and the Transportation Professional of the Year. The award is presented at a Section meeting, and the recipient's spouse and family are encouraged to attend. Each recipient receives a suitably engraved plaque as well as the best wishes and heartfelt thanks of the Section.

The Lifetime Achievement Award is presented each year in December and honors an individual, who for an extended period of time, has contributed in an outstanding manner to the advancement of the transportation engineering profession. This year's recipient – Larry Corcoran – was recognized for his very active participation in Colorado/Wyoming Section activities since 1979. Larry recently retired as the Traffic Engineer for Douglas County, Colorado. Until 1998, Larry worked in Region 6 (Denver area) of the Colorado Department of Transportation and was in the forefront of implementing new technology on state highways, including ramp metering on Denver's freeways, CDOT's ITS office, and the Colorado Traffic Management Center (CTMC).

The Transportation Professional of the Year Award is presented in May and recognizes notable professionalism and achievement by a Section member during the previous calendar year. The 2009 recipient was Scott Thomas, a principal with the firm of Apex Design, PC. He was recognized a leader in the ITS industry in Denver, having recently completed detailed ITS framework and implementation plans for the US 36 corridor. Scott is an instructor for graduate



and undergraduate transportation engineering classes at the University of Colorado at Denver. Scott has served on the Section's executive committee as Technical Committee Chair since 2007.

Bylaws Update / Executive Officers Handbook:

In the fall of 2009, the Executive Committee established a Bylaws Subcommittee, which is conducting a review of the Section Bylaws. After several meetings, together with advice from District 6, the subcommittee determined that both the Section Bylaws (last updated in 1996) and Section Charter (established in 1973 and never updated) require updating both to reflect the Section's current processes and to be consistent with District guidance. The subcommittee is proposing that both the Section Bylaws and the Section Charter be revised and updated to be consistent with the model Section charter and bylaws made available by District 6.

Also new in 2009, the Colorado/Wyoming Executive Committee created an Executive Officers Handbook. This book lists the duties of each Section officer and summarizes input from recent past Section Officers regarding details and procedures to conduct the Section activities. The handbook will continue to be updated by Section officer's as they see fit.



ATTACHMENTS

Attachment 1 – April 2009 Technical Interest Column

Attachment 2 – October 2009 Issue of the Colorado / Wyoming *Conveyances* Newsletter

Colorado Ramp Meters Remain State-of-the-Art

by Scott Thomas, P.E., PTOE
Apex Design

The premise behind the ramp meters is that traffic signals platoon vehicles on the arterials and then the vehicles are released in clusters onto a congested freeway that may not have adequate gaps to accommodate the cluster of vehicles. Ramp meters are traffic control lights that regulate the amount of on-ramp traffic allowed to enter the freeway by releasing one or two vehicles per green indication.

The Colorado Department of Transportation's (CDOT's) ramp metering system was established in 1981 and even by today's standards is one of the more sophisticated algorithms around. Currently, there are 74 ramp meters in CDOT Regions 1, 4, and 6, and four more being advertised for construction. The largest concentration of meters is in the Denver Metropolitan Area. The meters in the metro area generally operate during weekday peaks, while the meters on I-70 in the mountains operate during recreational seasons on the weekends.

CDOT Algorithm

The CDOT ramp meter system algorithm is traffic demand responsive because cycle rates vary based on real-time freeway and on-ramp conditions. One of six cycle rates is selected every twenty seconds based on mainline volume or occupancy. As the freeway becomes more congested, fewer vehicles are released from the on-ramp. This helps ensure there are adequate gaps in the freeway for merging ramp traffic. In addition to local traffic conditions, the ramp metering system also monitors adjacent on-ramps along the freeway and implements coordination logic based on the needs of other ramps. For example, if an adjacent ramp becomes severely congested, then the system instructs other nearby ramps to restrict on-ramp traffic to help ease the congestion downstream.

Another, perhaps the most important, component of CDOT's ramp metering algorithm is a queue override function. The queue override function measures backup on the on-ramp to prevent queues from spilling back to the arterial. Once a queue occupancy threshold is crossed, the meter



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Steve Smith, CDOT Region 1, performs maintenance on the east-bound I-70 & Loveland Pass ramp meter.

speeds up the release rate until the ramp queue is cleared. These system components work together to balance supply and demand for the local and freeway traffic.

Benefits

Ramp meters are known to increase mainline throughput while reducing travel time, queuing, and frequency of crashes. A study conducted several years ago during a new ramp metering installation on southbound I-25 between 104th Avenue and 84th Avenue showed travel time was reduced by nearly two minutes and the average speed increased 31%, or 8.6 mph during the AM peak travel period. Similarly, on a C-470 section, which is a shorter segment, travel time was reduced by

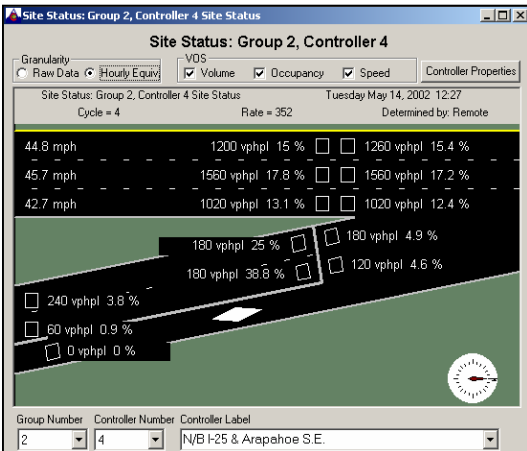
“Ramp meters are known to increase mainline throughput while reducing travel time, queuing, and frequency of crashes.”

Continued from page 11.

nearly 30 seconds and travel speed was increased an average of 10% or 7 mph. The return on investment, measured by the benefit-to-cost ratio, is recouped quickly since the meters are relatively low cost at roughly \$75k-\$100k per installation (assuming a retrofitted installation without roadway widening).

Other Uses of the Meters

The ramp meters collect volume, occupancy, and speed (VOS) across the Denver Metro region and beyond. The data is collected and stored for several years and has several uses. The data is used for setting ramp metering timing parameters and determining operating times. The VOS data is also transmitted to the Colorado Transportation Management Center and local media to populate their speed maps. Finally, the data is utilized to view historical trends and aids in traffic planning and design studies.



Screen capture of ramp meter VOS data that is reported back to the central system.



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Conveyances

INSTITUTE OF TRANSPORTATION ENGINEERS
The Official Newsletter of the ITE Colorado/Wyoming Section

Members of the Outstanding ITE Section ...



Summer has faded to fall with an exclamation point this year with an early snow in the hills. I had a chance to drive to Leadville for a meeting right after the snow-fall. The fall colors mixed with the white snow capped peaks was beautiful! This change in the season was preceded by a change in leadership for our Section.

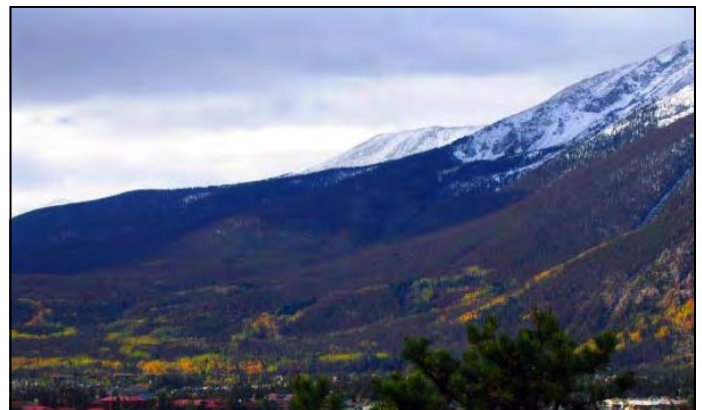
Zaki Mustafa, Western District International Director, joined us at our first meeting of the new fiscal year to swear in the new officers. I would like to thank Zaki for taking time from his busy schedule to visit our Section. I would also like to thank Bill Van Meter for giving us an informative update on Fast Tracks. It was interesting to hear how the changing economy has impacted this momentous project. If you could not make it to the meeting, we have posted video of the presentation on our website.

Our next section meeting will be held on October 30th in Loveland at the Budweiser Event Center. The meeting will feature a roundtable discussion on the flashing yellow arrow treatment for permissive left turns at signalized intersections. Our panel of Anna Bunce, City of Aurora; Joe Paulson, City of Boulder; and Nathan Beauheim, City of Cheyenne will lead the discussion. All three of these cities have implemented flashing yellow arrows at various intersections so it will be interesting to hear them discuss their experiences. For registration information, please see the official announcement in the following pages of this newsletter.

Our next executive committee meeting Thursday, November 5 from 2:00 PM to 4:00 PM at the Wynkoop Brewing Company downtown Denver (18th Street and Wynkoop Street) followed by a happy hour after 4:00 PM. You are welcome to join us at the Executive Committee meeting or just show up for some drinks and socializing after 4:00 PM.

I look forward to seeing you at the October luncheon and perhaps at one of our other activities!

Ben Waldman
President
Colorado-Wyoming Section ITE



Snowcapped peaks and fall colors near Leadville, Colorado.

Upcoming Events ...

October Luncheon · Page 10	Oct. 30, 2009
Section Happy Hour · Page 1	Nov. 5, 2009

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September Meeting Highlights

by Kari McDowell, Section Scribe

The Colorado/Wyoming ITE Section held their 2009 Public Agency Appreciation Luncheon on Friday, September 18th at the Embassy Suites Hotel in the Denver Tech Center. Section President, Ben Waldman, presided over the Section's annual business meeting luncheon.

The meeting began with Past President, Craig Faessler, welcoming the attendees of the public agency appreciation lunch and Zaki Mustafa, Western District International Director. Zaki thanked the Section for hosting the District's Annual Meeting. The District's www.WesternITE.org website has numerous photographs documenting the event. The WesternITE newsletter is now being published online. As the editor, Zaki is looking for relevant updates on current transportation issues by the members.

After the District update, Zaki swore in this year's officers. Ben Waldman was sworn in as the Section President; Greg MacKinnon as Vice President; and Chris Sheffer as Secretary/Treasurer.

Ben Waldman presented Craig Faessler with a plaque to recognize his contributions as last year's Section president (see photo right). Ben also thanked the members of the Local Arrangement Committee for work in organizing the District's Annual Meeting in Denver.



Larry Corcoran, Robert Kenny, Jack Tone, and were recognized by Ben Waldman as Lifetime Members of the Section.

Chris Sheffer reviewed this year's budget and it was approved by the Section. The scholarship fund is being increased from \$2,000 per year to \$4,000 per year.

Dave Krauth and Sarah Karjala have joined the Section's Executive Committee, as Legislative Chair and Activities Report Coordinator, respectively.

John Seyer thanked the sponsors and volunteers for this year's golf tournament. He also asked for volunteers to serve on next year's committee, noting that "The worst day on the golf committee is better than the best day on many other committees." Thanks, John.

Dave Hattan reminded everyone that the Call for Lifetime Achievement Award Nominations was due by October 2nd. The recipient will be recognized in December.

Vice President, Greg MacKinnon, introduced the program

speaker, Mr. Bill Van Meter, the Assistant Planning Director for RTD. Mr. Van Meter presented on the status of the FasTracks transit projects and how the program would be moving forward in the future. The District is facing the challenge of having increasing ridership numbers and decreasing revenues. Their Public-Private Partnership solution is catching attention from other transit agencies from all over the world.

Our next Section luncheon will be held on Friday, October 30th at the Budweiser Event Center in Loveland. The meeting will feature a roundtable discussion on the flashing yellow arrow treatment for permissive left turns at signalized intersections. Registration is available at www.cowyite.org.

The Colorado/Wyoming Section contact is Ben Waldman of LSC Transportation Consultants, Inc., (303) 333-1105; ben@lscdenver.com. Also, please visit our Section's website at www.cowyite.org.



The new Colorado/Wyoming Section officers, Ben Waldman (President), Greg MacKinnon (Vice-President) and Chris Sheffer (Secretary/Treasurer).



Ben Waldman with the newest Lifetime Members of the Section, Larry Corcoran, Robert Kenny, and Jack Tone.

MEETING VIDEOS!

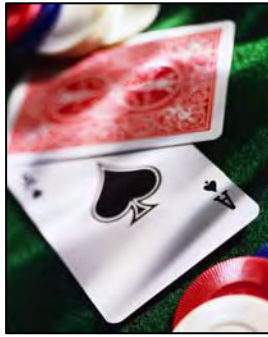
The Colorado/Wyoming Section is proud to introduce a new feature for the website. Videos of the Section's business and presentations are now available to those who cannot make it to the actual meeting. This allows everyone to follow Section business and to enjoy the presentations made at the meetings. We are the first Section in the Western District to implement this technology. To access the videos, go to the [Meeting Videos](#) link on our website.



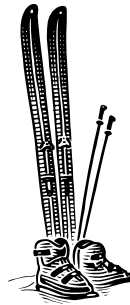
Activities Committee

by Eric Boivin, Chair

Do you know when to hold 'em and when to fold 'em? The Colorado/Wyoming Section of ITE is considering a poker tournament to benefit the Section's Scholarship Fund. Please contact Eric Boivin, Activities Committee Chair, at (303) 216-2439 or ericboivin@alltrafficdata.net if you're interested.

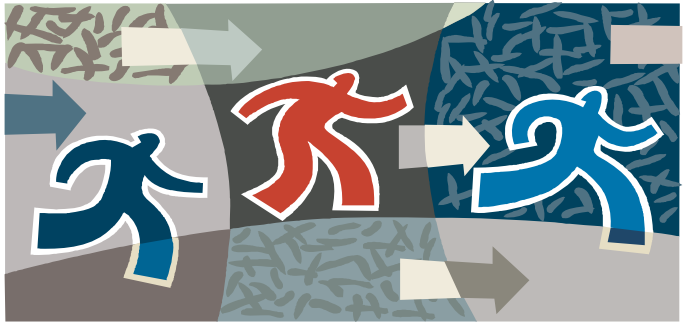


Save the Date ... Saturday, January 23rd. Join the Colorado/Wyoming Section on our annual outing to Winter Park. The Ski Bus has been reserved and we will be arriving in style! The Section has reserved two limo busses that will accommodate up to 60 people. The Ski Bus will take the place of the Ski Train that is not in operation this year. Registration and sponsorship opportunity information will be forthcoming.



Membership Committee

by Melissa Rosas, Chair



Over the summer months, several of our members have been on the move.

Let's welcome the following new members to our group:

- Daniel Folsom, Traffic Planning & Design, Inc.

The following have made some recent employment changes:

- Eric Bracke has taken a position as the City of Greeley's Traffic Engineer.
- Larry Cocoran has retired from Douglas County. He and his wife are going to enjoy wine and golf in Florida's horse country.
- Joe Henderson has started Sustainable Traffic Solutions, Inc.
- Kathleen Krager is a Senior Traffic Engineer with the City of Colorado Springs' Subdivision Engineering Review Team.

If you recently joined ITE, changed jobs, or have been recognized for a particular achievement (such as receiving award or passing your P.E.), let me know so we can mention it in an upcoming Conveyances newsletter. Please email your news to me at rosasm@pbworld.com.

If you do have a change in employment and are a National Member, it is important to change your information with the national database by going to www.ite.org. However, if you are a Section Affiliate, make sure to give your change in employment with the local Membership Chair at rosasm@pbworld.com.

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Member Profile—Trung Vo

by Melissa Rosas, Membership Chair, and Bob Kochevar



Trung Vo is a Signal Engineer for Traffic Engineering Services with the City and County of Denver. He has a Bachelor's of Science in Architectural Engineering with an emphasis in Construction Management from the University of Colorado at Boulder. Trung has been a member of ITE for four years, ever since becoming a City and County of Denver employee.

Trung was born in Vietnam. In 1979, when Trung was three years old, his father, a South Vietnamese Army soldier, fled with his family due to prosecution and persecution from the Viet Cong. Trung's father and grandfather stole a communist troop transport boat, and fled to sea with Trung's grandmother, mother, and younger sister (six months old at the time) along with some extended family and friends. Approximately two dozen people were on that boat for seven days. On the seventh day, they docked in Thailand and sought assistance at a refugee camp. They eventually came to the United States after a family sponsored them. Trung's grandfather, Thomas Lam, passed away last year. Trung often thinks about his family's struggle to be here and honors his family by striving to make the most of his opportunity.

Trung is married to Heather, who is a Director of Projects for Xanterra. He is also a wonderful father to Logan, who will turn two in December. They reside in southeast Denver.

How did you enter the field of transportation?

After college, I worked for Level 3 Communications; after six years I realized that I wanted to do technical engineering. I applied to the City and County of Denver and started out in the Development Engineering Services group. I was in the DES group working on Stapleton projects for 18 months before joining the traffic group.

How do you see the future of transportation in 50 years?

I think infrastructure and vehicles will be more intelligent. I think we will see more of the intelligent transportation systems and computer systems implemented not only along the roadway, but also in vehicles, because let's face it, drivers will not get better; there are too many distractions and it seems that people think there are better things to do in a vehicle other than driving.

How do you handle stress and pressure?

What's stress? Seriously. I don't get stressed too often, but when I do, I like to unwind playing video games. I am especially keen on Wii bowling.

What are you reading now?

I am still reading *The Jungle* by Upton Sinclair (it's going on three years now). I am also reading *Watchmen*, which is a graphic novel, just a fancy way of saying comic book. I am about half way through it and I just started it about a month ago, so it doesn't always take me so long to finish a book.

What is the most recent movie that you have seen and how many stars do you give it?

Don't laugh, I just watched *Twilight*, but I swear my wife put me up to it. I give it 2 out of 5 stars. "I hope that the next one is better." (Just clear proof that he indeed looks forward to future movies from this series.)

Who is are some of your favorite actors and one of their great performances?

Natalie Portman in *Garden State*, Emily Deschanel in

Bones, Russell Crowe in *Master and Commander* and Leonardo DiCaprio in *The Departed*.

Do you have any ideas that you have that can improve the local ITE section?

I would like to see more public sector members get involved. There could be more outreach, but we can be more active as well. I'd like to also see some Denver projects highlighted at luncheons; the Denver CBD Re-timing project will be a good one to present once it has progressed.

In an effort to get to know our members better, one of our future regular Conveyances articles will be a personal profile in which we feature one of our ITE members. If you are interested in interviewing someone or being interviewed, please contact Melissa Rosas at 303-390-5901 or at melissa.rosas@apexdesignnpc.com. Thank you.

"I would like to see more public sector members get involved. There could be more outreach, but we can be more active as well."

Treasurer's Report

by Chris Sheffer, Section Secretary/Treasurer



The current budget summary is listed below.

If you have any questions or comments concerning this budget summary, please contact Chris Sheffer at c.sheffer@fehrandpeers.com.

Budget as of Sept 21, 2009		
Income	Budget	Actual
Executive Committee		
Administrative	\$0.00	
Business Card Ads	\$2,925.00	
Dues-ITE Payment	\$4,000.00	
Dues-Misc.	\$500.00	
Employment Ads	\$300.00	
Interest	\$250.00	\$6.14
Lunch Meetings	\$9,350.00	\$2,025.00
Spring Symposium	\$300.00	
Vendor Show	\$13,000.00	
Activities		
Ski Bus	\$2,500.00	
Continuing Education		
	\$4,500.00	\$15.00
Golf		
	\$11,500.00	
Scholarship		
	\$0.00	
Student Chapter		
	\$500.00	
Subtotal	\$49,625.00	\$2,046.14
Expense		
Budget	Actual	
Executive Committee		
Administrative	\$1,000.00	\$251.54
Presidents D6 registration	\$350.00	
Bank Charges	\$700.00	
EC Meetings	\$1,000.00	
Lunch Meetings	\$11,375.00	\$1,839.00
Newsletter Contest	\$200.00	
Spring Symposium		
Vendor Show	\$8,000.00	
Activities		
Charity	\$1,000.00	
Happy Hour	\$350.00	
Ski bus	\$2,500.00	
Awards		
	\$275.00	
Continuing Education		
	\$4,500.00	
Membership Committee		
	\$500.00	
Golf		
	\$11,000.00	
Scholarship		
	\$800.00	
Student Chapter		
	\$1,500.00	
Website Committee		
	\$100.00	
Website Upgrade		
	\$2,500.00	
Contingency		
	\$1,975.00	
Subtotal	\$49,625.00	\$2,090.54
Total	\$0.00	-\$44.40

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Technical Committee Interest Column

by Scott Delaroy, Tetra Tech and Scott G. Thomas, Apex Design

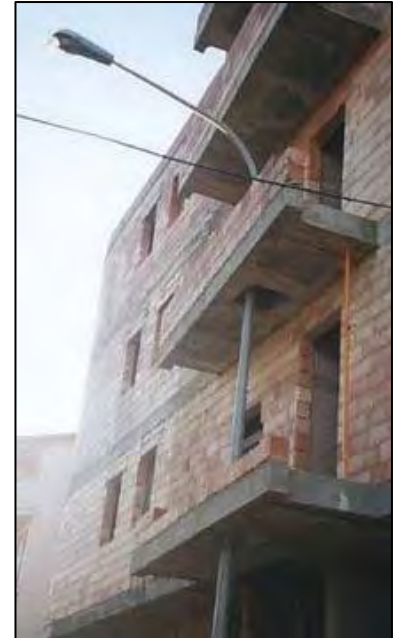
A Good Design Engineer: A Contractor's Perspective

Recently, I had lunch with a friend of mine, Scott Delaroy. Scotty and I have worked together since the beginning of the Denver Metro area's T-REX project. I enjoyed our relationship and the design/build atmosphere because I was able to get instant feedback about my engineering design; good or bad. To that end, Scotty and I got to chatting about what makes a good design engineer and he kindly shared the following tips.

- **Design with maintenance in mind.** In other words, your design is going to be constructed and then someone is going to inherit it to maintain. Make sure that once your design is constructed things are out of harm's way, accessible, and built to last in the surrounding environment.
- **Take the time to ensure the plans are accurate and complete.** This may seem like a no-brainer, but sometimes engineers get caught up in deadlines and sacrifice quality. Incomplete plans and specifications breed confusion and dysfunction.
- **Use bid items whenever possible.** Do not combine separate pay items into a single bid item. This is not a way to save money. In fact it has the opposite effect by causing change orders and claims during construction.
- **Be consistent.** Obviously, design preferences and nomenclature is somewhat unique to each jurisdiction. But strive to keep plans and specifications consistent from project to project within each agency. Inconsistency to confusion for engineers, contractors, and inspectors.
- **Design, but don't dictate.** Contractors rely on engineering plans for clear and concise details of existing and proposed design elements and requirements. However, the method of construction and

sequencing is best left to the contractor in most instances. They are the ones with field experience.

- **Conduct a site survey.** Any engineer worth their salt will visit the project and take a close look at the environment. If not, you may end up designing something that works great in two dimensions, but not so practical in the real world (see photo).
- **Talk to the people on the "front line".** Engineers have an incredible opportunity that is often wasted. Take the time to talk to the contractors, traffic signal technicians, and maintenance personnel that have to build, operate, and maintain your design. Seek feedback on your design and be a humble and eager listener. You will most likely become a better engineer as a result.




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Life is a Highway!

by Bill Hange, City of Loveland

ITE appointed a Roundabout Task Force nearly two years ago. The Task Force has produced technical articles for a special issue of ITE and has been producing information to help answer questions regarding roundabout design, operations and other issues. As a member of this Task Force, I would like to get our Section members' input regarding modern roundabout issues you have experienced. For more information from the Task Force please view the webpage at:

<http://www.ite.org/councils/Safety/roundabout.asp>

Currently, a hot topic in the roundabout community is the use of traffic signals, full signals/Hawk Signals/etc. for pedestrian crossings at roundabouts. In particular, multi-lane roundabouts are being discussed and studied in regards to access and Americans with Disabilities Act (ADA) issues. One of the test locations being evaluated is at a roundabout in Golden, Colorado.



The discussion and research for the signalized roundabouts was triggered by questions surrounding the federal ADA requirements. The ADA access requirements were created to help segments of our communities' population that may be blind, use wheel chairs, or have other challenges to overcome to be mobile. The engineering concerns center around the installation of traffic signals or beacons at roundabouts and their impact on the system's functionality.

If you have thoughts/input on these issues feel free to call at (970) 962-2528 or email me at hangeb@ci.loveland.co.us.

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- Traffic Engineering Design
- Traffic Operations & Simulation
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- Transportation Systems Planning

On a side note, the newest two-lane, rural roundabout in the Loveland area just opened up this past month. The photo below (looking north) shows an aerial view of the intersection of Boyd Lake Avenue (LCR#9) and LCR #30. This intersection, near the Loveland-Ft. Collins Airport, had been a high-speed, two-way stop-controlled intersection. Construction of this intersection project was a cooperative effort funded by the city of Loveland and Larimer County. The County was the lead agency for design and construction, as this intersection was part of a larger county roadway project to the north.



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SECTION ANNOUNCEMENTS



Please send any announcements that you wish to be posted in the newsletter to Bart Przybyl, Newsletter Co-Editor, bartp@lscdenver.com.

ITE SHIRTS FOR SALE

The Western District Student Endowment Fund was established to provide a self-sustaining funding source for the Student Initiatives Program, the goal of which is to attract the best and the brightest to the transportation profession in the west. In the past, these initiatives were modestly funded utilizing existing annual operating and annual meeting budgets which has limited the scope of the programs resulting in the use of operating reserves. The District 6 Board projects that the Endowment Fund needs to reach \$500,000 to generate enough annual revenue to support the District's student initiatives. To date, we have made great strides towards meeting our financial goal with more than \$150,000 raised for the Endowment Fund.

Visit the new District 6 Student Endowment Fund website at www.westernite.org/endowment to find out more about the fund or make an online contribution. While you're there, find out more about the Student Initiatives Program, explore our photo gallery, or browse through our list of contributors. In addition to the new website, the District has also established two Endowment Fund awards that will be presented at each Annual Meeting to recognize the Sections/Chapters that contribute the most to the fund throughout the year.

SECTION BYLAWS REVIEW COMMITTEE

The Executive Committee is conducting a review of the Section Bylaws, the rules that govern our activities. The Section periodically reviews the bylaws to ensure consistency with District Bylaws and the International Constitution and to determine if changes are required in the bylaws to account for changes in processes and technology used by the Section. We are looking for volunteers to participate on the review committee. If you would like to participate, please contact Greg MacKinnon, Section Vice-President, at (303) 480-5633 or gmackinnon@drcog.org by November 6th.

UPDATE CONTACT INFORMATION

The Colorado/Wyoming ITE Section has been providing electronic newsletters for a number of years. The section sends out an email notice once the newsletter has been posted online. Please contact Melissa Rosas at (303) 390-5901 or at melissa.rosas@apexdesignnpc.com if you need to update your contact information with the Section. Thank you.



CALL FOR ABSTRACTS

The San Francisco Local Arrangements Committee (LAC) is accepting abstracts for presentations at the 2010 ITE Western District Annual Meeting in San Francisco, CA, June 27-30, 2010. The submittal deadline is January 4, 2010. For Additional information please visit <http://www.sfbayite.org/2010/>.



ENGINEERS WITHOUT BORDERS
USA

ENGINEERS WITHOUT BORDERS

Come join the Denver Chapter of Engineers Without Borders for an elegant evening filled with fine wine, delicious appetizers, and the fun and excitement of a silent auction. The 4th Annual Wine Tasting Fundraiser will be held on November 5th from 6pm to 10pm at the Translations Gallery located in Downtown Denver. Tickets for the event are \$40 and include a variety of wines and appetizers. All proceeds will be used to fund the Chapter's current humanitarian projects being conducted in Togo, Madagascar and Ecuador.

For more information, or to reserve tickets, please contact Jen Cook at jencewb@gmail.com or visit the Chapter website at www.ewbdenver.org. The Chapter is also currently soliciting items for the Silent Auction, please contact Jen Cook with donations.

The Chapter is also currently working on a road design project in Jamaica. This is a great opportunity for transportation professionals in ITE to utilize their design skills to help others in a developing country. For more information please contact Sarah Karjala at s.karjala@fehrandpeers.com or attend an EWB meeting. Denver chapter meetings are held the 2nd Tuesday of every month, 7-9 pm, at the University of Denver Engineering Building (Knudson Hall).

Puzzle Maniac

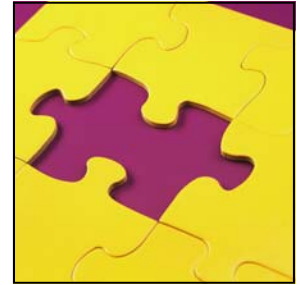
by Bart Przybyl, Newsletter Co-Editor

Unfortunately, there was no winner last month as no one provided a correct answer. Hopefully this month's puzzle will be easier so we can give away some prizes!

This issue's puzzle is a word letter substitution puzzle where one letter stands for another. If you can figure out the substitution scheme, you can decipher the phrase shown below.

To win, be the first person to e-mail the correct answer to bartp@lscdenver.com before October 26, 2009.

The winner will be awarded a free ITE lunch OR a \$25 gift certificate to the establishment of their choice.



IVRHTR OHPR TSJR KE HKKRCZ

KAR EMKEQRJ 30KA DKR VSCMAREC

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**Clue: V equals L
J equals R**

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OCTOBER LUNCHEON

What:

ITE Colorado-Wyoming Section Luncheon Meeting

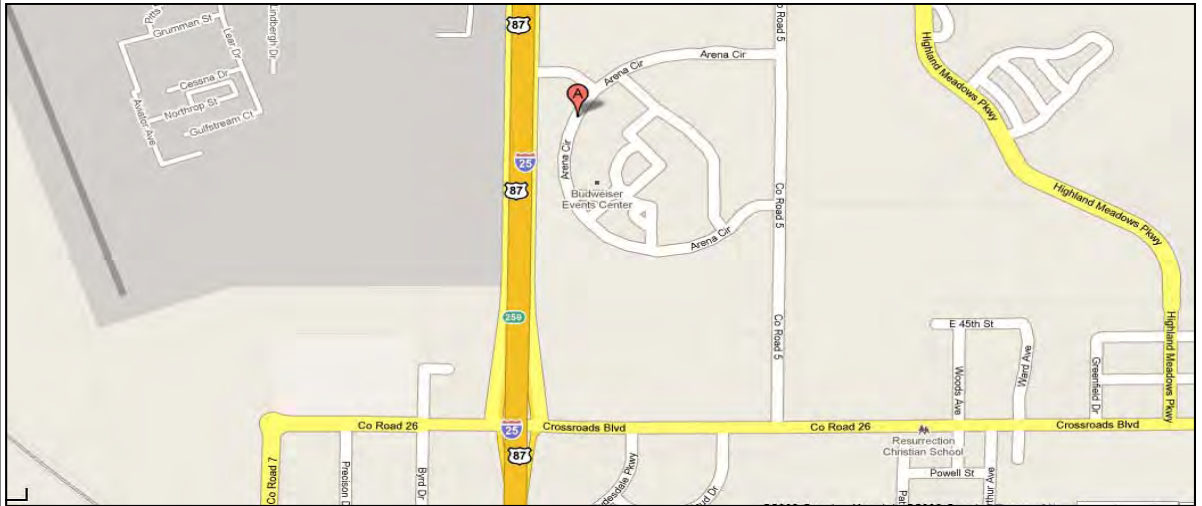
When:

Friday, October 30, 2009

Where:

Budweiser Events Center at the Ranch
[5290 Arena Circle, Loveland, CO 80538](http://www.budweiser.com)

Located at exit 259 (Crossroads Boulevard) on I-25



Time:

11:00 a.m. - Registration
 12:00 p.m. - Lunch

Program:

Flashing Yellow Arrow Panel Discussion

Speaker:

Nathan Beauheim – City of Cheyenne, Anna Bunce – City of Aurora, Joe Paulson – City of Boulder

Cost:

\$30.00 for Members and
 \$35.00 for non-Members

Menu:

The luncheon choices are:

London Broil—Slow roasted to perfection and finished with Hunters sauce and served with white cheddar mashed potatoes

Atlantic Salmon—Basted with a delightful honey-soy-ginger marinade and served with Basmati Rice Pilaf

Penne Pasta—Served with basil, olive oil, asparagus, mushrooms and julienne red peppers

Entrées include a vegetable, a house salad, bakery rolls, and dessert.

Upcoming Luncheon Dates:



Events Calendar

Please send events to be posted in this calendar to Bart Przybyl, Newsletter Co-Editor, bartp@lscdenver.com.



November 5, 2009
CO/WY ITE Section
Executive Committee Meeting and
Happy Hour



December 4, 2009
CO/WY ITE Section Luncheon
Denver Metro
December 11, 2009
CO/WY ITE Section
Executive Committee Meeting



January 22, 2010
CO/WY ITE Vendor Show
Arvada Center

January 23, 2010
Ski Bus
Winter Park, CO

January 29, 2010
CO/WY ITE Section
Executive Committee Meeting



March 5, 2010
CO/WY ITE Section Luncheon
Colorado Springs

March 12, 2010
CO/WY ITE Section
Executive Committee Meeting



April 2, 2010
Sixth Annual Spring
Transportation Symposium
Denver Metro

April 9, 2010
CO/WY ITE Section
Executive Committee Meeting



May 14, 2010
CO/WY ITE Section Luncheon
Denver Metro



June 11, 2010
CO/WY ITE Section
Executive Committee Meeting

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A COMMUNITY OF CHOICE

CITY OF CHEYENNE

TRAFFIC ENGINEER

The City of Cheyenne, Wyoming, is seeking a Traffic Engineer. This position reports to the Assistant City Engineer and is responsible for directing and managing the activities of the Traffic Engineering section of the City Engineer's Office. This position responds to traffic concerns; supervises and performs the technical review of plans, reports, and specifications; designs engineering projects; develops and implements traffic related ordinances, regulations, and policies; and provides complex engineering and administrative support to City staff for all traffic related issues effecting the City.

This position is responsible for supervising, selecting, training, and coaching traffic staff; planning, organizing, evaluating, and directing or supervising the functions and activities of traffic engineering, including traffic studies, transportation planning, and traffic signals, parking regulations, traffic signs, traffic striping, and traffic markings; directing the preparation of plans and specifications for traffic signals and related projects, including the selection of consultants and contract negotiation; coordinating project review efforts as part of the development review process with the Planning Division, and other groups and agencies as necessary; investigating and responding to traffic-related citizen service requests and respond to citizen complaints; preparing oral presentations and written reports and documentation related to the traffic and transportation activities in the City to the Mayor's Office and City Council; responding to interrogations and testifying in court in cases involving the City's traffic system; interfacing with the Wyoming Department of Transportation, Federal Highway Administration, and other agencies on traffic-related matters; and serving as technical advisor to the City Engineer, Mayor, and City Council on traffic engineering-related matters.

Selected candidate will have a Bachelors degree in Traffic, Transportation, Civil Engineering, or a closely related field and preferably will be a licensed professional engineer in the State of Wyoming or with the ability to obtain same within 6 months of date of hire. A valid drivers license and pre-employment drug/alcohol screening is required. The position pays \$4,200 to \$5,000 per month, depending on level of experience, and includes an excellent benefits package. For more information and a complete job description, visit <http://www.cheyennecity.org> or call (307) 637-6340.

The City of Cheyenne is the northern anchor of the rapidly growing Rocky Mountain Front Range. Just 90-minutes from Denver, Cheyenne is the State Capital of Wyoming. Cheyenne's mission is to be a 'Community of Choice' where people from all walks of life can live and thrive. Located at the intersection of Interstates 80 and 25, Cheyenne is experiencing significant growth, with a population approaching 60,000.

Senior Roadway Project Manager Denver, Colorado

Michael Baker Jr. Inc., a division of Michael Baker Corporation, seeks a Senior Roadway Project Manager (PM III) for our Denver, Colorado (Lakewood) Office.

Michael Baker Corporation (<http://www.mbakercorp.com>) provides engineering and operations and maintenance services for its clients' most complex challenges worldwide. The firm's primary business areas are aviation, environmental, facilities, geospatial information technologies, pipelines and utilities, transportation, water/wastewater, and oil and gas. With more than 4,000 employees in over 50 offices across the United States and internationally, Baker is focused on delivering innovative and sustainable solutions for infrastructure and the environment. Michael Baker Corporation is ranked among the top 50 national design firms (ENR 2007).

The Senior Roadway Project Manager plans, directs and coordinates activities of designated project to ensure that goals or objectives of project are accomplished within prescribed time frame and funding parameters. The Senior Roadway Project Manager will be responsible for developing and coordinating roadway/civil engineering project teams, including sub-consultants. The position provides opportunities for professional growth in an expanding organization. Some travel is required.

Requirements and Preferences for Senior Roadway Project Manager are:

Requirements:

- **B.S. Civil Engineering**
- **Minimum of 15 years experience in design and management of transportation projects (must include Department of Transportation and Municipal projects)**
- **Strong oral and written communication skills**
- **Colorado P.E., or ability to obtain within six months**
- **Computer Skills: Microstation, InRoads, Microsoft Office Suite**

Preferences:

- **Experience managing transportation projects for Colorado DOT and local front range municipalities.**

We strive to instill a set of Core Values that include *Integrity, Quality, People and Teamwork, Safety, Communication and Commitment.*

Baker offers an excellent benefits package that includes: Medical, Dental, Vision, Disability Insurance, Life Insurance, Flexible Spending Accounts, Additional Paid Time Off, Flex-Time, 401-K Retirement Plan, Tuition Reimbursement, Employee Credit Union, and Savings Bond Purchase Program.

To apply for this position, please log on to www.mbakercorp.com/careers and reference **IRC34985**

Baker is an EEO/AAP (M/F/V/H) e-Verify Employer

(NOTE: If you experience difficulty applying on line, please contact the Systems Administrator at BAKERHRMS@mbakercorp.com)

MULLER

Transportation Engineer

Muller Engineering Company, a locally-owned multi-disciplinary engineering firm, is seeking to hire a project-level transportation engineer to join its growing transportation services group. The transportation group has a diverse range of projects including transportation design, corridor studies, master planning and traffic operations. Desired skills include traffic signal operations analysis, traffic design, report writing and experience using Synchro, HCS and MS-Office software packages. Familiarity with simulation modeling and CAD is also desirable. Position requires excellent communications skills, BSCE and 2-5 years experience in traffic/transportation engineering. Muller Engineering offers a competitive salary, a rewarding working environment and an excellent benefits package.

Please submit resume and cover letter to:

Muller Engineering Company
Attn: Mr. Robert G. Carlson
rcarlson@mullereng.com

Director of Transportation **Location -Denver, CO**

Aegis | WORLDWIDE

Job Description

A multi-disciplinary civil/environmental engineering firm, Headquartered in Indianapolis, IN, with branch offices in Ohio and Colorado, is currently looking for a Sr. Transportation Engineer to manage their newly established Denver Regional Transportation Engineering office. They are prequalified as a DBE with CDOT.

Responsibilities

The Regional Manager/ Director of Transportation would have business development and marketing responsibilities, including establishing and fostering client relationships with CDOT, counties and municipalities, Airport, Transit, etc. Responsibilities also include oversight of Project Management and design.

Qualifications

BSCE, PE License and min of 15+ years experience.

Contact: Alex LaPointe

Phone: (317) 566-7052

Email: alapointe@teamaegis.com



TRANSPORTATION ENGINEER

Job Description

Apex Design is a transportation engineering firm specializing in Traffic Engineering and Intelligent Transportation Systems (ITS). We work with government agencies to help them improve traffic flow and safety within their community. Opportunities exist for talented individuals interested in working on challenging traffic and ITS planning, design, and operations projects. We offer applicants the ability to grow both professionally and personally within the engineering profession.

To apply, submit a cover letter and resume to careers@apexdesignpc.com with attention to Jason Osaki, President. Visit our website at www.apexdesignpc.com for more information about our company and the types of projects we deliver for our clients.

Qualifications

- Degree in Civil/Transportation Engineering or a related field
- Minimum of two years experience completing engineering projects
- Design proficiency in MicroStation and/or AutoCAD
- Ability to perform traffic engineering studies and operational analyses
- Excellent problem solving, communication, and writing skills

Duties

- Assist in preparation of traffic and ITS design plans, specifications and estimate packages utilizing CAD software with direction from senior engineers
- Assist in preparation of traffic engineering studies utilizing traffic engineering software packages to perform operational analyses with direction from senior engineers
- Work with team to prepare reports and proposals
- Maintain client contact and participate in project presentations
- Assist in technical analyses and written documentation
- Perform project tracking for schedule and budget of assigned task



Traffic Engineering/ITS Manager

Emerging and growing firm looking for a dynamic engineering manager with strong technical skills and good business knowledge. Our firm has secured sufficient backlog of work and we are not necessarily looking for this position to market actively. Marketing skills would be a plus. There is tremendous opportunity to grow with and within the firm. Excellent support staff of several engineers and technicians. Our firm specializes in traffic operations, traffic engineering, ITS and data collection.

Ideal Requirements

- 7+ years Experience in the Traffic/ITS
- PE License (ability to get it within 6 months)
- Supervisory/Management Experience

If you are interested in learning more about this opportunity, please contact Annette Trujillo at 303.688.0676 x 109 or via e-mail at atrujillo@navjoyinc.com

About Our Company

Founded in 2003, Navjoy Consulting Services, Inc. has developed into a multi-disciplinary firm that serves both public and private sectors. We have a very successful practice in Colorado in traffic engineering, ITS and traffic data collection. We focus on understanding the client needs, superior customer service, personal interaction with the client, and technical excellence. Navjoy has a proven track record of delivering high quality projects on-time and within or under budget. "Getting the right people on the bus" is one of most critical decisions for our firm. Navjoy has an extensive recruitment process in place that is detailed, open and honest to enable the right decision. We firmly believe that Navjoy will continue to provide the ideal environment for talented and exceptional individuals to continue succeeding. We are proud of our ability to provide:

- Opportunities for professional and personal growth
- Open & supportive team environment
- Diverse and exciting work
- Employee diversity
- Highly competitive salary and benefits package

Hunt, Patton & Brazeal
5619 DTC Parkway, Suite 125
Greenwood Village, CO 80111
lhildreth@huntpatton.com

Transportation Engineer

Location: Denver, Colorado

Discipline: Professional Engineer/Project Manager

A Denver based consulting firm, has an opening for a Lead Professional Engineer/Project Manager in their Highway Design Department

Responsibilities include roadway and highway design, project management, client services. The candidate must have a Bachelors Degree in Civil Engineering and a licensed Professional Engineer in Colorado or have the ability to achieve registration. Ten plus years experience in municipal roadway and DOT highway design, and project management experience is required.

Traffic Engineer

Location: Denver, Colorado

A Denver based consulting firm, has an opening for a Professional Engineer in their Traffic Engineering Group.

Responsibilities include preparing proposals, marketing, tracking project budgets, and maintaining project schedule and meeting deadlines.

Candidates must have a Bachelor's Degree in Civil Engineering, be a licensed Professional Engineer or the ability to achieve registration in Colorado, good project management skills, and a minimum of 10 years related traffic engineering experience. PTOE certification is desirable.

Experience with the basic traffic engineering tools of Synchro, SimTraffic, and Highway Capacity Software is required. Experience with other traffic and simulation software is highly desirable. Traffic signal design, traffic signal timing, and development of corridor traffic signal timing plans are a plus

Please send your resume in confidence to lhildreth@huntpatton.com.

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