

JUL 29 2009

STATE OF MINNESOTA
BOARD OF ARCHITECTURE, ENGINEERING,
LAND SURVEYING, LANDSCAPE ARCHITECTURE, GEOSCIENCE
AND INTERIOR DESIGN

In the matter of Andrew Dahmen
Professional Engineer
License Number 23135

STIPULATION AND ORDER

Board File No. 2009-0048

TO: Mr. Andrew Dahmen
2200 South 2400 East
Heber, Utah 84032

The Minnesota Board of Architecture, Engineering, Land Surveying, Landscape Architecture, Geoscience and Interior Design ("Board") is authorized pursuant to Minnesota Statutes section 214.10 (2008) and Minnesota Statutes section 326.111 (2008) to review complaints against architects, professional engineers, land surveyors, landscape architects, geoscientists, and certified interior designers, and to take disciplinary action whenever appropriate.

The Board received information concerning Andrew Dahmen ("Respondent"). The Board's Complaint Committee ("Committee") reviewed the information. The parties have agreed that the matter may now be resolved by this Stipulation and Order.

STIPULATION

IT IS HEREBY AGREED by and between Respondent and the Committee as follows:

1. Jurisdiction. The Respondent has held a license to practice professional engineering from the Board since February 9, 1994. Respondent is subject to the

jurisdiction of the Board with respect to the matters referred to in this Stipulation.

2. Facts. This Stipulation is based upon the following facts:

a. Respondent was first licensed to practice professional engineering in the State of Minnesota on February 9, 1994.

b. Respondent's license to practice professional engineering in the State of Minnesota is current, with an expiration date of June 30, 2010.

c. Respondent affirmed in the on-line renewal application on June 19, 2008 at 9:39 AM, twenty four (24) Professional Development Hours (PDH) earned from 07/01/2006 thru 06/30/2008. Respondent affirmed a total of twenty four (24) PDH's for the 2008-2010 renewal period.

d. In a letter dated August 29, 2008, the Board notified Respondent that he had been selected as part of the Board's biennial audit and was required to provide supporting documentation for at least twenty four (24) PDH's that he affirmed for the 2008-2010 renewal period by September 30, 2008. Respondent did not respond to the continuing education audit letter by September 30, 2008. A true and correct copy of the August 29, 2008 letter is attached at Exhibit A.

e. In a letter dated October 29, 2008, the Board notified Respondent a second time that he had been selected as part of the Board's biennial audit and was required to provide supporting documentation for at least twenty four (24) PDH's that he affirmed for the 2008-2010 renewal period by December 1, 2008. Respondent did not respond to the Board's second continuing education audit letter by December 1, 2008. A true and correct copy of the October 29, 2008 letter

is attached at Exhibit B.

f. In a letter dated March 20, 2009, Respondent states: "I did a poor job of maintaining a hard copy of my records for my files. I do have the agenda for 2006 for which I attended but not for 2007. I have included that back-up with this letter." A true and correct copy of the March 20, 2009 letter is attached as Exhibit C.

g. In a letter dated April 1, 2009 to the Respondent, the Board's Investigator, Lynette DuFresne, stated: "I received your response letter on March 30, 2009. Unfortunately, you have not submitted the appropriate supporting documentation. The agenda is not clear on the conference course content." A true and correct copy of the April 1, 2009 letter is attached as Exhibit D.

h. In the same letter dated April 1, 2009 to the Respondent, the Board's Investigator, Lynette DuFresne, stated: "Acceptable supporting documentation must include some kind of paperwork showing your participation in a particular course or activity (certificates, registration receipts, copies of presentations, notes, etc.). The agenda you submitted does not show the course content for each session." A true and correct copy of the April 1, 2009 letter is attached as Exhibit D.

i. In a letter dated April 18, 2009, to the Board, Respondent states: "For the year 2006 I have included a copy of the e-mail confirmation from the billing company. This e-mail was my confirmation that I paid for the conference

and included my agenda specific to me. Per your request I have included a detailed description of the courses offered during the conference. I have circled and numbered the sessions that I attended. I am also submitting a copy of the 2007 topic descriptions. Unfortunately I do not have a copy of my e-mail confirmation proving that I paid and went to the conference.” A true and correct copy of the April 18, 2009 letter is attached as Exhibit E.

j. In this same letter dated April 18, 2009, to the Board, Respondent states: “At this point this is all I will be able to provide for back-up for my education credit hours.” A true and correct copy of the April 18, 2009 letter is attached as Exhibit E.

3. Violations. Respondent admits that the facts specified in paragraphs 2(d) through 2(j) above constitute violations of Minnesota Statutes section 326.111, subdivision 4 (a) (1) and (8), Minnesota Statutes section 326.107, subdivision 7 (2008) and Minnesota Rules 1805.0200, subpart 4.C. (2007) and are sufficient grounds for the action specified below.

4. Enforcement Action. Respondent and the Committee agree that the Board should issue an Order in accordance with the following terms:

a. Reprimand. Respondent is reprimanded for the foregoing conduct;
and

b. Suspension of License. Respondent’s professional engineering license shall be suspended until Respondent complies with the following conditions:

(1) Respondent shall submit documentation acceptable to the Board of a minimum of twenty four (24) professional development hours for the 2008-2010 renewal for continuing education as required by Minnesota Statutes section 326.107, subdivision 7 (2008). To meet the statutory requirement for documentation of these professional development hours, Respondent may submit acceptable documentation for a combination of: (a) professional development hours earned from 07/01/2006 to 06/30/2008 and (b) professional development hours earned on or after July 1, 2008. Completion of any courses or activities for the professional development hours earned on or after July 1, 2008 that are being submitted for the purpose of fulfilling the twenty four (24) professional development hours required by this Stipulation and Order shall not count toward any continuing education requirements in the 2010-2012 renewal period or beyond;

AND

(2) Respondent shall pay to the Board a civil penalty of Five Hundred Dollars (\$500.00). Respondent shall submit a civil penalty of Five Hundred Dollars (\$500.00) by cashier's check or money order to the Board within sixty (60) days of the Board's approval of this Stipulation and Order.

c. Upon receipt of the Board's Order approving this Stipulation, Respondent shall deliver his license to the Board office within

three (3) business days. If and when the Board determines that Respondent has complied with the conditions listed in parts 4.b. 1) and 2) above, the Board will issue an order vacating the suspension of Respondent's professional engineering license and restore his license to an unconditional status, and will return Respondent's license to him, provided that Respondent has met all other requirements for "current" license status in Minnesota Statutes sections 326.02 to 326.15 (2008) and pays all applicable fees.

d. Prohibitions. During the period of suspension of Respondent's professional engineering license, Respondent shall not:

(i) Perform, or offer to perform, any activities in the State of Minnesota requiring licensure under Minnesota Statutes sections 326.02 - 326.15 (2008); nor

(ii) Use the title of "Professional Engineer/PE" in connection with his name, or solicit or contract to furnish work requiring licensure within the terms of Minnesota Statutes sections 326.02 - 326.15 (2008), or otherwise hold himself out as a professional engineer in the State of Minnesota.

5. Additional Discipline for Violations of Order. If Respondent violates this Stipulation and Order, Minnesota Statutes Chapter 326 (2008), or Minnesota Rules Chapter 1800 (2007) or Minnesota Rules Chapter 1805 (2007), the Board may impose additional discipline pursuant to the following procedure:

a. The Committee shall schedule a hearing before the Board. At least

thirty days prior to the hearing, the Committee shall mail Respondent a notice of the violation alleged by the Committee and of the time and place of the hearing. Within fourteen days after the notice is mailed, Respondent shall submit a response to the allegations. If Respondent does not submit a timely response to the Board, the allegations may be deemed admitted.

b. At the hearing before the Board, the Complaint Committee and Respondent may submit affidavits made on personal knowledge and argument based on the record in support of their positions. The evidentiary record before the Board shall be limited to such affidavits and this Stipulation and Order. Respondent waives a hearing before an administrative law judge and waives discovery, cross-examination of adverse witnesses, and other procedures governing administrative hearings or civil trials.

c. At the hearing, the Board will determine whether to impose additional disciplinary action, including additional conditions or limitations on Respondent's practice or suspension or revocation of Respondent's license.

6. Waiver of Respondent's Rights. For the purpose of this Stipulation, Respondent waives all procedures and proceedings before the Board to which Respondent may be entitled under the Minnesota and United States constitutions, statutes, or the rules of the Board, including the right to dispute the allegations against Respondent, to dispute the appropriateness of discipline in a contested case proceeding pursuant to Minnesota Statutes Chapter 14 (2008), and to dispute the civil penalty imposed by this Agreement. Respondent agrees that upon the application of the

Committee without notice to or an appearance by Respondent, the Board may issue an Order containing the enforcement action specified in paragraph 4 herein. Respondent waives the right to any judicial review of the Order by appeal, writ of certiorari, or otherwise.

7. Collection. In accordance with Minnesota Statutes section 16D.17 (2008), in the event this order becomes final and Respondent does not comply with the condition in paragraph 4(b)(2) above, Respondent agrees that the Board may file and enforce the unpaid portion of the civil penalty as a judgment without further notice or additional proceedings.

8. Board Rejection of Stipulation and Order. In the event the Board in its discretion does not approve this Stipulation and Order or a lesser remedy than specified herein, this Stipulation and Order shall be null and void and shall not be used for any purpose by either party hereto. If this Stipulation is not approved and a contested case proceeding is initiated pursuant to Minnesota Statutes Chapter 14 (2008), Respondent agrees not to object to the Board's initiation of the proceedings and hearing the case on the basis that the Board has become disqualified due to its review and consideration of this Stipulation and the record.

9. Unrelated Violations. This settlement shall not in any way or manner limit or affect the authority of the Board to proceed against Respondent by initiating a contested case hearing or by other appropriate means on the basis of any act, conduct, or admission of Respondent justifying disciplinary action which occurred before or after the date of this Stipulation and Order and which is not directly related to the specific

facts and circumstances set forth herein.

10. Record. The Stipulation, related investigative reports and other documents shall constitute the entire record of the proceedings herein upon which the Order is based. The investigative reports, other documents, or summaries thereof may be filed with the Board with this Stipulation.

11. Data Classification. Under the Minnesota Government Data Practices Act, this Stipulation and Order is classified as public data upon its issuance by the Board, Minnesota Statutes section 13.41, subdivision 5 (2008). All documents in the record shall maintain the data classification to which they are entitled under the Minnesota Government Data Practices Act, Minnesota Statutes Chapter 13 (2008). They shall not, to the extent they are not already public documents, become public merely because they are referenced herein. A summary of this Order will appear in the Board's newsletter. A summary will also be sent to the national discipline data bank pertaining to the practice of professional engineering.

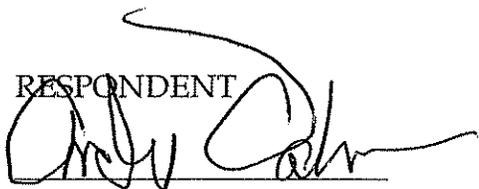
12. Entire Agreement. Respondent has read, understood, and agreed to this Stipulation and is freely and voluntarily signing it. The Stipulation contains the entire agreement between the parties hereto relating to the allegations referenced herein. Respondent is not relying on any other agreement or representations of any kind, verbal or otherwise.

13. Counsel. Respondent is aware that he may choose to be represented by legal counsel in this matter. Respondent knowingly waived legal representation.

14. Service. If approved by the Board, a copy of this Stipulation and Order

shall be served personally or by first class mail on Respondent. The Order shall be effective and deemed issued when it is signed by the Chair of the Board.

RESPONDENT


Andrew Dahmen

Dated: 7/25, 2009

COMPLAINT COMMITTEE

By: Billie Lawton
Billie Lawton, Public Member,
Committee Chair

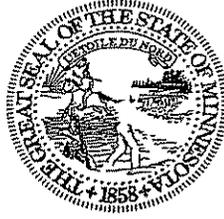
Dated: 8-19, 2009

ORDER

Upon consideration of the foregoing Stipulation and based upon all the files, records and proceedings herein, all terms of the Stipulation are approved and hereby issued as an Order of this Board on this the 18th day of September, 2009.

MINNESOTA BOARD OF
ARCHITECTURE, ENGINEERING,
LAND SURVEYING, LANDSCAPE
ARCHITECTURE, GEOSCIENCE AND
INTERIOR DESIGN

By: Kristine A. Kubes
Kristine A. Kubes, J. D.
Board Chair



THE MINNESOTA BOARD OF ARCHITECTURE, ENGINEERING, LAND SURVEYING,
LANDSCAPE ARCHITECTURE, GEOSCIENCE & INTERIOR DESIGN

August 29, 2008

Mr. Andrew Dahmen
2200 So 2400 East
Heber, UT 84032

Dear Mr. Dahmen:

The Minnesota Board of Architecture, Engineering, Land Surveying, Landscape Architecture, Geoscience and Interior Design is in the process of auditing records for compliance with the continuing education requirement for the 2008-2010 license renewal period.

You have been selected as part of our biennial audit to document your Professional Development Hours (PDH). According to our records, you submitted a total of 24 PDH earned between July 1, 2006 and June 30, 2008. This total includes up to 12 PDH carryover from the previous renewal period.

Minnesota Statute 326.107 Subd. 7 states that "The licensee or certificate holder shall maintain a file in which records of courses and activities are kept, including dates, subjects, duration of programs, sponsoring organization, professional development hours earned, registration receipts where appropriate, and other pertinent documentation, for a period of two years after submission to the board."

Please submit supporting documentation for at least 24 of your reported Professional Development Hours. The documentation should include the date(s) attended, subject of the activity, the number of PDH the activity was worth and any other pertinent documentation (handouts, registration receipts, etc.). Your documentation should be submitted to the Board office no later than September 30, 2008.

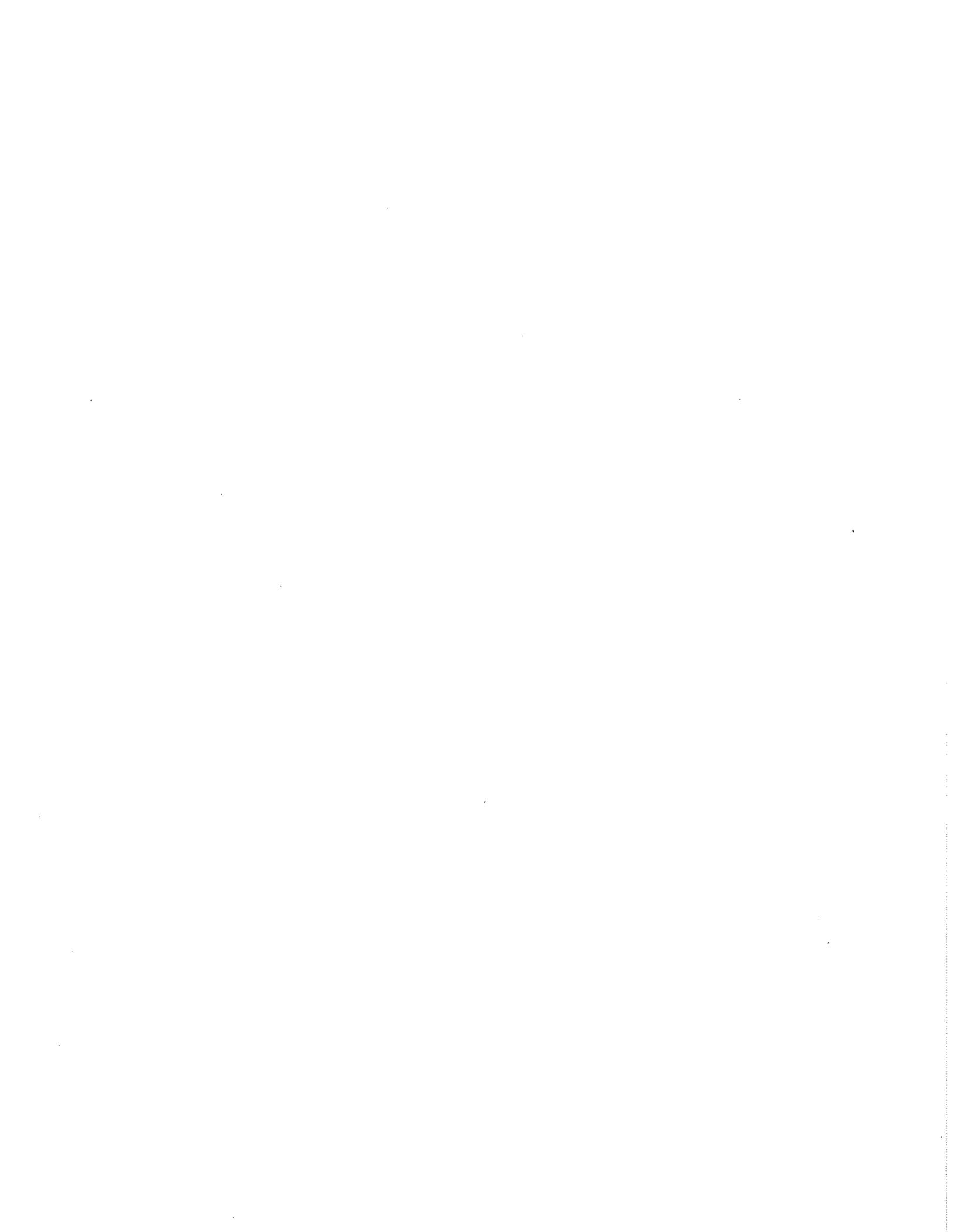
Upon receipt of this correspondence, if you have any questions, please contact the undersigned at 651-757-1511.

Sincerely,

Andrea Barker
Continuing Education Program Administrator

85 East 7th Place, Suite 160, St. Paul, MN 55101
p. 651.296.2388 ■ f. 651.297.5310 ■ TTY 800.627.3529
www.aelslagid.state.mn.us

EXHIBIT A





THE MINNESOTA BOARD OF ARCHITECTURE, ENGINEERING, LAND SURVEYING,
LANDSCAPE ARCHITECTURE, GEOSCIENCE & INTERIOR DESIGN

October 29, 2008

Mr. Andrew Dahmen
2200 So 2400 East
Heber, UT 84032

Re: SECOND NOTICE - CONTINUING EDUCATION AUDIT

Dear Mr. Dahmen:

The Minnesota Board of Architecture, Engineering, Land Surveying, Landscape Architecture, Geoscience and Interior Design is in the process of auditing records for compliance with the continuing education requirement for the 2008-2010 license renewal period.

You have been selected as part of our biennial audit to document your Professional Development Hours (PDH). According to our records, you submitted a total of 24 PDH earned between July 1, 2006 and June 30, 2008. This total includes up to 12 PDH carryover from the previous renewal period.

Minnesota Statutes section 326.107, subdivision 7 (2006) states that "The licensee or certificate holder shall maintain a file in which records of courses and activities are kept, including dates, subjects, duration of programs, sponsoring organization, professional development hours earned, registration receipts where appropriate, and other pertinent documentation, for a period of two years after submission to the board."

Please submit supporting documentation for at least 24 of your reported Professional Development Hours. The documentation should include the date(s) attended, subject of the activity, the number of PDH the activity was worth and any other pertinent documentation (handouts, registration receipts, etc.). Your documentation should be submitted to the Board office no later than December 1, 2008.

Upon receipt of this correspondence, if you have any questions, please contact the undersigned at 651-757-1511.

Sincerely,

A handwritten signature in cursive script that reads "Andrea Barker".

Andrea Barker
Continuing Education Program Administrator

85 East 7th Place, Suite 160, St. Paul, MN 55101
p. 651.296.2388 ■ f. 651.297.5310 ■ TTY 800.627.3529
www.aelslagid.state.mn.us

EXHIBIT B

March 20, 2009

Lynette DuFresne
MN Board of AELSLAGID
85 7th Place East, Suite #160
Saint Paul, MN 55101-2113

MAR 30 2009

RE: Andrew Dahmen, File # 2009-0048

Dear Ms. DuFresne,

I apologize for not addressing this issue sooner. It should not have taken a certified letter to get me motivated.

I have received both of the board's letters requesting back-up of my continuing education credit hours for my last enrollment period. I reside in Utah and previously worked for a construction company in the Salt Lake City area. I am also licensed in Utah. In the past years to meet my continuing education credit requirements I have attended an annual 3 day workshop sponsored by the Utah Department of Transportation, UDOT. For my education credits in Utah, UDOT would submit rosters and sign in sheets directly to the board of professional licensing. I did a poor job of maintaining a hard copy of my records for my files. I do have the agenda for 2006 for which I attended but not for 2007. I have included that back-up with this letter. This was a great way to get credit hours but due to budget restraints UDOT has discontinued this program. I have requested copies of the class rolls from UDOT and the Utah board of Professional Engineers but have not been successful in getting a copy. Right now I only have the back-up for 12 credit hours.

I do have somewhat of an extenuating circumstance. In July of 2005 I was involved in an accident and broke my neck leaving me permanently paralyzed. I have not worked since then. Currently I reside in Utah and very unlikely will ever work in Minnesota again, but I would like to keep my options open as much as possible. Is there an inactive status provision and if so what would it take to become recertified?

Again I apologize for waiting so long to get back to you.

Sincerely,

Andy Dahmen

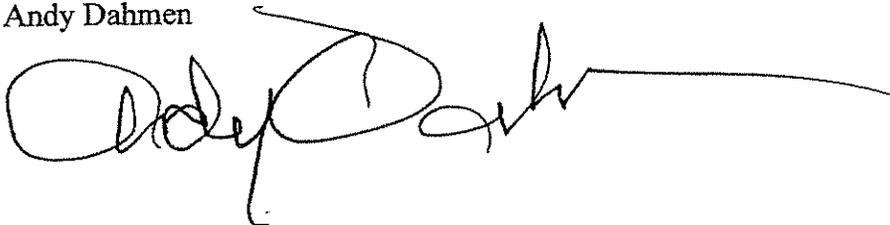
A handwritten signature in black ink, appearing to read 'Andy Dahmen', with a long horizontal line extending to the right.

EXHIBIT C

MAR 30 2009

Dahmen, Andy

Sent: Sat 11/11/2006 10:51 AM

From: www-data on behalf of Event Registration System
To: Dahmen, Andy
Cc:
Subject: Engineering Conference 2006 Itinerary
Attachments:

Engineering Conference 2006 Itinerary for Andy Dahmen

==[November 13, 2006(Monday)]=====

8:00 am - 11:20 am
Session: Registration

8:20 am - 9:10 am
Session: Vendor Breakout 1

9:20 am - 10:10 am
Session: Vendor Breakout 2

10:00 am - 11:30 am
Session: Exhibit Area Opens

10:20 am - 11:10 am
Session: Vendor Breakout 3

12:30 pm - 1:45 pm (General Session - Day One)
Session: General Session One

2:00 pm - 2:50 pm (Breakout Period 1)
Session: Session 07 - UDOT Wildlife Crossing and Fish Passage Strategies

3:00 pm - 3:30 pm
Session: Break Monday P.M.
- Food will be served

3:30 pm - 5:00 pm (Breakout Period 2)
Session: Session 16 - Maintenance Issues for Designers

5:30 pm - 7:30 pm
Session: Social Hour and Buffet

==[November 14, 2006(Tuesday)]=====

7:00 am - 8:00 am
Session: Continental Breakfast Tuesday

8:00 am - 9:30 am (Breakout Period 3)
Session: Session 34 - ADA Compliance - Truncated Domes and Funding Sources

9:30 am - 10:00 am
Session: Break Tuesday A.M.
- Food will be served

10:00 am - 10:50 am (Breakout Period 4)
Session: Session 62 - Bridge Aesthetics

11:00 am - 11:50 am (Breakout Period 5)
Session: Session 06 - Adaptive Management and Modeling to Mitigate for Impacts to Biological Resources

12:00 pm - 1:00 pm

Session: Lunch, Tuesday

1:00 pm - 1:55 pm (General Session - Day Two)
Session: General Session Two

1:55 pm - 2:30 pm
Session: Visit Exhibit Area

3:00 pm - 3:50 pm (Breakout Period 6)
Session: Session 80 - The Extraordinary Leader - Moving Individuals & Teams from Good to Great

4:00 pm - 4:50 pm (Breakout Period 7)
Session: Session 25 - International Avalanche Conference

5:30 pm - 7:30 pm
Session: Banquet - 1, Attendee only with no guests

==[November 15, 2006(Wednesday)]=====

7:00 am - 8:00 am
Session: Continental Breakfast Wednesday

8:00 am - 9:30 am (Breakout Period 8)
Session: Session 54 - Provo Canyon, Legacy Parkway Updates

9:30 am - 10:00 am
Session: Break Wednesday A.M.
- Food will be served

10:00 am - 10:50 am (Breakout Period 9)
Session: Session 33 - Managing Traffic Demand: A European Perspective

11:00 am - 11:50 am (Breakout Period 10)
Session: Session 59 - Survey Methods and Accuracies

12:00 pm - 1:00 pm
Session: Lunch, Wednesday

1:00 pm - 3:00 pm
Session: Adjourn and Teardown

—
Event Registration System
Utah Department of Transportation



THE MINNESOTA BOARD OF ARCHITECTURE, ENGINEERING, LAND SURVEYING,
LANDSCAPE ARCHITECTURE, GEOSCIENCE & INTERIOR DESIGN

April 1, 2009

CONFIDENTIAL
By Certified U.S. Mail
Return Receipt Requested
Number 7007 0710 0001 3781 8969

Mr. Andrew Dahmen
2200 South 2400 East
Heber, Utah 84032

RE: Andrew Dahmen, File No. 2009-0048

Dear Mr. Dahmen:

Please be informed that the Board of Architecture, Engineering, Land Surveying, Landscape Architecture, Geoscience, and Interior Design's Complaint Committee ("Committee") continues its investigation regarding the above mentioned file.

I received your response letter on March 30, 2009. Unfortunately, you have not submitted the appropriate supporting documentation. The agenda is not clear on the conference course content.

Here is the situation.

- a. You affirmed that you had earned 24 Professional Development Hours (PDH) on June 19, 2008 at 9:39 AM. See Exhibit A.
- b. All you need to do is to provide the supporting documentation as your proof for completing these 24 PDH's that you affirmed on June 19, 2008 at 9:39 AM.

Acceptable supporting documentation must include some kind of paperwork showing your participation in a particular course or activity (certificates, registration receipts, copies of presentations, notes, etc.). The agenda you submitted does not show the course content for each session.

EXHIBIT D

85 East 7th Place, Suite 160, St. Paul, MN 55101
p. 651.296.2388 ■ f. 651.297.5310 ■ TTY 800.627.3529
www.aelslagjd.state.mn.us

You need to answer the following question:

Did you complete the 24 PDH's during the 07/01/2006 to 06/30/2008 period as you affirmed in the on-line renewal on June 19, 2008 at 9:39 AM?

If yes, please submit your supporting documentation as your proof.

If no, please explain.

Please provide a detailed written response to this question **no later than Monday April 20, 2009**. Include the file number 2009-0048 on your written response and all other correspondence.

I will wait for your response to the above question. Whatever you submit to me for your supporting documentation to prove your 24 PDH's will need to go to the Board for approval. They will let me know if you have met the 24 PDH's that you affirmed on June 19, 2008.

Information provided to the Board or to the Office of the Attorney General as part of an active investigation is confidential pursuant to the Minnesota Government Data Practices Act, Minnesota Statutes section 13.41 (2008). Such information is for the use of the Board and the Attorney General in evaluating the complaint. In accordance with statutes, rules, and professional standards governing legal action, information provided to the Board and the Attorney General may, in some circumstances, be disclosed to certain other persons or entities, including but not limited to the Office of Administrative Hearings and appellate courts. Thus, this information may thereby become public data. Please read the enclosed Tennessen Warning.

Your cooperation is requested. If you have any questions, please contact me by dialing (651) 757-1510. Please do not respond by email. My emails are considered public and complaint information is strictly confidential.

Sincerely,



Lynette DuFresne
Investigator

Enclosure: Attached Exhibit
Tennessen Warning

APR 27 2009

April 18, 2009

Lynette DuFresne
MN Board of AELSLAGID
85 7th Place East, Suite #160
Saint Paul, MN 55101-2113

RE: Andrew Dahmen, File # 2009-0048

Dear Ms. DuFresne,

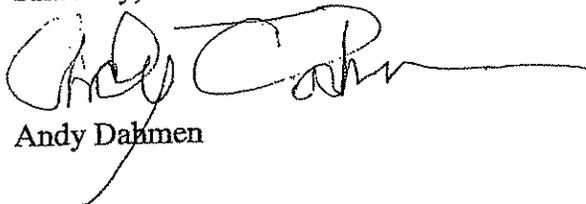
Thank you for giving me the opportunity to talk with you the other day. I was able to get additional information but it took me some time to acquire, hence the reason that I have not responded sooner.

For the time period since my last re-enrolment period I attended an annual engineering conference sponsored by the Utah Department of Transportation, UDOT, to meet my continuing education credits. For the year 2006 I have included a copy of the e-mail confirmation from the billing company. This e-mail was my confirmation that I paid for the conference and included my agenda specific to me. Per your request I have included a detailed description of the courses offered during the conference. I have circled and numbered the sessions that I attended. I am also submitting a copy of the 2007 topic descriptions. Unfortunately I do not have a copy of my e-mailed confirmation proving that I paid and went to the conference. UDOT also took roll but because the program has been discontinued due to budget constraints I have not been able to get copies of those roll sheets.

At this point this is all that I will be able to provide for back-up for my education credit hours. I am requesting that you put me on an inactive status. I know you mentioned on the phone that I can not go backwards. In reality I have been on inactive status since I acquired my license in Minnesota. I currently live in Utah and have not practiced in Minnesota.

Thank you for your time and let me know what the board decides.

Sincerely,



Andy Dahmen

EXHIBIT E

Dahmen, Andy

From: www-data on behalf of Event Registration System
To: Dahmen, Andy
Cc:
Subject: Engineering Conference 2006 Itinerary
Attachments:

Sent: Sat 11/11/2006 10:51 AM

Engineering Conference 2006 Itinerary for Andy Dahmen

==[November 13, 2006(Monday)]=====

8:00 am - 11:20 am
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 Session: Exhibit Area Opens

10:20 am - 11:10 am
 Session: Vendor Breakout 3

12:30 pm - 1:45 pm (General Session - Day One)
 Session: General Session One

2:00 pm - 2:50 pm (Breakout Period 1) ✓
 Session: Session 07 - UDOT Wildlife Crossing and Fish Passage Strategies

3:00 pm - 3:30 pm
 Session: Break Monday P.M.
 - Food will be served

3:30 pm - 5:00 pm (Breakout Period 2) ✓
 Session: Session 16 - Maintenance Issues for Designers

5:30 pm - 7:30 pm
 Session: Social Hour and Buffet

==[November 14, 2006(Tuesday)]=====

7:00 am - 8:00 am
 Session: Continental Breakfast Tuesday

8:00 am - 9:30 am (Breakout Period 3) ✓
 Session: Session 34 - ADA Compliance - Truncated Domes and Funding Sources

9:30 am - 10:00 am
 Session: Break Tuesday A.M.
 - Food will be served

10:00 am - 10:50 am (Breakout Period 4) ✓
 Session: Session 62 - Bridge Aesthetics

11:00 am - 11:50 am (Breakout Period 5) ✓
 Session: Session 06 - Adaptive Management and Modeling to Mitigate for Impacts to Biological Resources

12:00 pm - 1:00 pm

2006 Engineering Conference Breakout Sessions

1. Partnering with Businesses during Road Construction: Can It be Done? Yes, It Can.

Track: Public Involvement

Primary Presenters: Evelyn Tuddenham, Utah Department of Transportation Region Two, Public Involvement Coordinator, Randi Shover, H.W. Lochner, Public Involvement Manager, Catherine Curtis, H.W. Lochner, PRA Guide Author

Back-up Presenters: Angela Linford, Utah Department of Transportation Region Two, Public Involvement Coordinator (if not at international conference), Kim Clark, H.W. Lochner, Public Involvement Manager, Catherine Curtis, H.W. Lochner, PRA Guide Author

Synopsis: Learn about the Utah Department of Transportation's new *Partners for the Road Ahead* guide and other tools to empower business stakeholders to effectively prepare for and successfully maintain their businesses through roadway construction projects. The guide is one of the first of its kind in the United States. This session will provide attendees with simple, easy-to-apply tools and ideas to empower their business constituents to deal effectively with a variety of transportation construction projects.

Time Required: 50 minutes

2. What do Utahns think about UDOT?

Track: Public Involvement

Presenters: David L. Smith, Director of Client Services PPBH

Synopsis: This session will provide project managers and engineers with a real-world view of what the public thinks about UDOT. Information will be pulled from numerous phone surveys, focus groups and "man on the street" interviews conducted in the last several years for UDOT projects.

Time Required: 50 minutes

3. The secret to a successful PI project:

Track: Public Involvement

Presenters: Dan Jones & David L. Smith, PPBH

Synopsis: PI without research is like shooting an arrow into the air, and then looking for a target to catch it with. In this session, co-hosted by PPBH and Dan Jones & Associates, you'll learn how research tools such as phone surveys, web surveys, focus groups, canvassing, mailers and other surveys can improve a project at the beginning, middle, and at the end of the project. Participants will learn how pre-construction surveys create a baseline for planning, drive the PI strategy, gauge public attitudes for a project, identify concerns and issues, and discover ways to gain public support for a project. Mid-construction surveys assess the impact of a project and identify what areas of the PI plan are working well and not working well. Post-construction surveys measure the results of public involvement, the construction project and UDOT's public perception.

The session would present how various research tools impacted the strategies and outcomes of various projects, such as Express Lanes, the Mountain View Corridor, CommuterLink, and other UDOT projects.

Time Required: 50 minutes

4. Public Information Managers

Track: Public Involvement

Presenters: Myron Lee, Geoff Dupaix, Adrew Neff, Angela Linford, and Evelyn Tuddenham

Synopsis: This session will include a discussion of innovative public involvement strategies including the following:

1. Public Information Managers * why use them, when, how, benefits of on a project
2. Public Involvement Incentives * how they work, successes, real costs
3. Community Coordination Teams * how they benefit business-district projects

Time Required: 50 minutes

5. Cool Tools for Public Involvement

Track: Public Involvement

Presenters: Allen Ibaugh, Data Transfer Solutions

Synopsis: Come see some innovative technology and multimedia tools that have been developed to support Department's of Transportation in the development of their Work Programs, Community Impact Assessments, and Growth Management Initiatives. These tools combine Web, GIS, Multimedia, and 3-D components to support community awareness development and the public involvement process.

Time Required: 50 minutes

6. Adaptive Management and Modeling to Mitigate for Impacts to Biological Resources

Track: Environmental

Presenters: Mike Perkins (HDR), Rick Black (HDR), Heather O'Brien (SWCA), and TBD (agency member of Legacy Nature Preserve's "Collaborative Design Team")

Synopsis: Appropriate assessment and mitigation for impacts to wetlands and wildlife are of increasing concern to resource and regulatory agencies, natural resource academicians, environmental groups, and other members of the general public. Environmental legislation driving policy to develop adequate mitigation includes the National Environmental Policy Act, the Clean Water Act, and the Endangered Species Act. In recent years, researchers have developed and refined environmental models in attempt to adequately assess impacts and develop mitigation.

Adaptive management is a useful approach in combination with modeling to collaborate with agencies and other stakeholders in developing adequate mitigation and ecosystem management strategies. Adaptive management is based on the premises that natural systems are complex and inherently dynamic. Adaptive Management is a flexible, iterative approach that directs conservation management practices over time by the results of research monitoring activities. An adaptive approach has been implemented on the Legacy Nature Preserve in coordination with the Preserve's interagency "Collaborative Design Team" to develop mitigation requirements and management strategies that mitigate impacts to wetlands and wildlife from the Parkway project.

Time Required: 50 minutes

7. UDOT Wildlife Crossing and Fish Passage Strategies

Track: Environmental

Presenters: Tom Twedt, Biowest, Ken Sim, Biowest, Denis Stuhff, UDOT & Shane Marshall, UDOT

Synopsis: The long-term challenge of allowing wildlife and fish a reasonably natural and adequate passage through highway facilities continues to gain importance as UDOT strives to accomplish its mission while protecting the natural environment and working closely with the various resource management and permitting agencies. Several new efforts of the Department in this regard will be presented.

UDOT Research has funded a study to evaluate fish passage requirements throughout the State and develop solutions to problem areas and facilities. This research project will provide UDOT with a strategy for prioritizing culverts for aquatic organism or fish passage. The study will help UDOT identify locations where special culverts are needed for aquatic life passage and provide design procedures. Several Federal and State agencies have interest in this study and are participating as technical advisors.

Similarly, the UDOT Environmental Program initiated a project to develop an overall UDOT Wildlife Crossing Strategy, as a collaborative effort with the Utah Division of Wildlife Resources (DWR) under a contract with BIO-WEST, Inc. After UDOT Management obtained a commitment of support from DWR, a team of DWR specialists was identified and the team worked together to review the problem, evaluate data availability and adequacy, and jointly develop solutions. The result is a framework for addressing wildlife crossing issues early in the planning, funding, and project development phases of the UDOT process while incorporating DWR input. Additional needs and approaches to implementation were identified and developed for inclusion into the process.

Time Required: 50 minutes

8. UDOT and SAFETEA-LU

Track: Environmental

Presenters: Shane Marshall, UDOT and Greg Punske, FHWA

Synopsis: This section will cover how UDOT and FHWA Utah Division are implementing the new provisions of SAFETEA-LU. The section will focus on defining and explaining just what Section 6002 (Efficient Environmental Review) means to UDOT. Other sections of SAFETEA-LU that will be covered are Section 6004 (CE Delegation) and Section 6009 (De Minimis and Clarification of "prudent and feasible").

Time Required: 50 minutes

9. Update on the US Army Corps of Engineers Regulatory Program

Track: Environmental

Presenters: Michael Jewell, Regulatory Compliance Practice Leader, Jones & Stokes and Shawn Zinszer, Chief, Intermountain Regulatory Section, US Army Corps of Engineers

Synopsis: The session will provide information on current issues related to Section 404 of the Clean Water Act, including jurisdiction, permitting, mitigation and enforcement. Presentation topics will include a recent Supreme Court decision, proposed regulations, and new guidance and policies. The presentation will be followed by a Q&A.

Time Required: 50 minutes

10. Historic Resources and Section 106 Panel Discussion

Track: Environmental

Presenters: Kyle Keahay, Parsons Transportation Group, Sherri Ellis, SWCA, Matthew Seddon, Utah SHPO, Pam Higgins, UDOT, and Elizabeth Skinner, UDOT

Synopsis: This session will provide a brief overview of the Section 106 process followed by a panel discussion of topics ranging from what SHPO is looking for in cultural resource survey's to developing MOA's. The panelists come from a wide range of backgrounds and include consultants, SHPO staff, and UDOT staff.

Time Required: 50 minutes

11. EMS – Environmental Management Systems

Track: Environmental

Presenters: Jerry Chaney

Synopsis: Environmental mitigation commitments are often summarized in approved environmental documents. This breakout session will describe a new Environmental Management System (EMS) which will improve how mitigation commitments are communicated to design staff, incorporated into project plans and implemented in the construction and maintenance phases.

Time Required: 50 minutes

12. NEPA 101 for Project Managers and Non-Environmental Staff

Track: Environmental

Presenters: Elizabeth Skinner, UDOT

Synopsis: NEPA 101 provides an overview of the National Environmental Policy Act (NEPA) and FHWA's policies and procedures for applying NEPA to the project development and decision-making processes related to transportation facilities. Other environmental laws that may drive the transportation project will be briefly covered, as will the new provisions in SAFETEA-LU.

Time Required: 50 minutes

13. Inspecting & Accepting New Highway Culverts

Track: Structures

Presenters: Denis Stuhff, UDOT

Synopsis: Things to watch for and why they are important.

Time Required: 50 minutes

14. Subsurface Utility Engineering

Track: Design

Presenters: Phillip Meis, JUB Engineering, Casey Brown

Synopsis: One of the key objectives with the subsurface utility engineering (SUE) process is to develop designs that mitigate utility conflicts and relocates. However, placement and labeling of facilities onto design cross sections historically has been a laborious, manual activity. Recent data processing technology now allows existing utility infrastructure to be chained in 3D and brought into InRoads Civil Design for automated depiction on cross sections and profiles. This procedure will be presented along with a demonstration of how MicroStation active tags are used to query and geo-reference utility data in relational database format, including digital photographs. Anyone involved with design development and utility coordination will be interested.

Time Required: 50 minutes

15. 3P – Primer, Financial Models, Teaming Arrangements

Track: Design

Presenters: Mr. Grant Holland from Wilbur Smith Associates

Synopsis: Session One: 3P Primer

This session will discuss the various forms of 3P delivery methods that can be used. Discussions will include the 3P procurement process, public sector issues, and private sector issues.

Session Two: 3P Financial Models

This session will compare traditional infrastructure financings using tax-exempt municipal debt with concession financing models. The session will discuss the differences in the risk-return calculations between bondholders and equity holders and then apply those differences to a hypothetical toll road project.

Session Three: 3P Teaming Arrangements

This session will look at typical teaming arrangements for 3Ps involving both Brownfield and Greenfield projects. Emphasis will be placed on how the different project types dictate different team structures and the relative importance of different team members.

Time Required: 90 minutes

16. Maintenance Issues for Designers

Track: Design

Presenters: Maintenance

Synopsis: There are many ways to design roads and roadway features. This session will present issues to consider when selecting design alternatives.

Time Required: 50 minutes

17. DMS Training (ProjectWise)

Track: Design

Presenters: Bob Peterson

Synopsis: This session will present the Bentley version of a (electronic) Document Management System—ProjectWise.

Time Required: 50 minutes

18. Visualization Training

Track: Design

Presenters: Paul Wheeler

Synopsis: This session will show the benefits of using visualization. How visualization can aid the design process as well as assist with public understanding and input on projects.

Time Required: 50 minutes

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Session: Lunch, Tuesday

1:00 pm - 1:55 pm (General Session - Day Two)
Session: General Session Two

1:55 pm - 2:30 pm
Session: Visit Exhibit Area

3:00 pm - 3:50 pm (Breakout Period 6)
Session: Session 80 - The Extraordinary Leader - Moving Individuals & Teams from Good to Great ✓

4:00 pm - 4:50 pm (Breakout Period 7) ✓
Session: Session 25 - International Avalanche Conference

5:30 pm - 7:30 pm
Session: Banquet - 1, Attendee only with no guests

==[November 15, 2006(Wednesday)]=====

7:00 am - 8:00 am
Session: Continental Breakfast Wednesday

8:00 am - 9:30 am (Breakout Period 8)
Session: Session 54 - Provo Canyon, Legacy Parkway Updates ✓

9:30 am - 10:00 am
Session: Break Wednesday A.M.
- Food will be served

10:00 am - 10:50 am (Breakout Period 9)
Session: Session 33 - Managing Traffic Demand: A European Perspective

11:00 am - 11:50 am (Breakout Period 10) ✓
Session: Session 59 - Survey Methods and Accuracies

12:00 pm - 1:00 pm
Session: Lunch, Wednesday

1:00 pm - 3:00 pm
Session: Adjourn and Teardown

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Event Registration System
Utah Department of Transportation

19. Roadway Design MOI

Track: Design

Presenters: Steve Anderson, Patti Charles

Synopsis: A new Design Manual of Instruction was published recently at UDOT. This session will give a brief overview of the MOI.

Time Required: 50 minutes

20. Bentley Design Tools and New Software (ProjectWise, Microstation, Inroads)

Track: Design

Presenters:

Synopsis: This session will present the latest updates to Bentley Tools.

Time Required: 50 minutes

21. Electronic Signature in Plan Sets

Track: Design

Presenters: Bob Peterson

Synopsis: Electronic signatures are to become the endorsing method for UDOT projects. This session will teach the process to signing documents electronically.

Time Required: 50 minutes

22. Concept Reports – Process and Importance

Track: Design

Presenters: Steve Anderson and Tony Lau

Synopsis: UDOT has revised the concept report process specifically for CE projects. The new process is aligned with the environmental process for these projects and includes a spreadsheet for estimating purposes. This presentation will cover these changes.

Time Required: 50 minutes

23. Local Government MOI

Track: Design

Presenters: Katherine Cutler

Synopsis: A new Local Government Manual of Instruction was published recently at UDOT. This session will give a brief overview of the MOI.

Time Required: 50 minutes

24. GIS/GPS Network Deployment

Track: Design

Presenters:

Synopsis: Real-Time Kinematic (RTK) is an emerging technology that will substantially increase the amount of data that can be collected in a survey by reducing the need to setup a base station. This session will present this technology.

Time Required: 50 Minutes

25. International Avalanche Conference

Track: Maintenance

Presenters: Liam Fitzgerald

Synopsis: This session will describe UDOT's current Highway Avalanche Safety Program and the direction the program will head in the future.

Time Required: 50 Minutes

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26. Assessing the Safety Impacts of Access Management Techniques

Track: Traffic & Safety

Presenters: Grant Schultz, BYU, Jeff S. Lewis, EIT

Synopsis: Traffic volumes and congestion across the state of Utah have continued to increase in recent years, particularly on arterial streets. This increased traffic volume has increased the emphasis on implementing access management techniques to alleviate some of the safety concerns associated with access on arterial streets. To determine the safety benefits provided by access management techniques in the state of Utah, an evaluation of the safety performance of arterials in which access management techniques have been implemented within the state was performed. Several locations where access management techniques have been implemented were selected for the safety analysis. Although crash rates were not reduced as a result of the access management techniques in every case, other safety improvements were observed. The purpose of this session is to present the results of this analysis and to discuss the safety impacts of access management techniques.

Time Required: 50 minutes

27. ITS Architecture for the Dixie Metropolitan Area

Track: ITS

Presenters: Dian Williams and Dave Lochtefeld

Synopsis: The Dixie Metropolitan Planning Association and UDOT have completed a Regional ITS Architecture and Deployment Plan. This session will describe the ITS services being planned for the Dixie area, the agencies' individual roles and responsibilities, and the list of planned projects.

Time Required: 50 minutes

28. 511 Traveler Information Enhancements

Track: ITS

Presenters: Richard Manser and Bryan Chamberlain

Synopsis: UDOT completed a business analysis of potential enhancements to 511 such as the addition of travel time, weather forecasts, personal 511 profiles, and tourism information. The analysis addressed the requirements, impact to users, costs to UDOT and participation of other partners. The results of this report and future direction of 511 will be discussed.

Time Required: 50 minutes

29. ITS Traffic Adaptive Signal System

Track: ITS

Presenters: Mark Parry, Mark Taylor, consultant, possibly U of U researcher

Synopsis: UDOT recently installed a high-tech signal coordination system in the Park City area as a research project. This session will present the basic principles of the system, the project description, and initial results of six months in operation.

Time Required: 50 minutes

30. ITS Strategic Plan

Track: ITS

Presenters: Richard Manser, Dave Kinnecom

Synopsis: Under the direction of a department-wide steering committee, UDOT recently completed a strategic plan for ITS in the state. This plan deals with strategic issues such as identifying and meeting customer needs and expectations; funding strategies; managing rapid changes in technology; hiring and maintaining staff with appropriate skills, knowledge and abilities; staff outsourcing vs in-house distribution of work; roles of private sector and government in providing traveler information services; centralization vs decentralization of operations and maintenance; and improvements to existing plans and processes.

Time Required: 50 minutes

31. Traffic Signals

Track: Traffic

Presenters: Oanh Le, Troy Noall, Larry Montoya

Synopsis: Overview of signal design concepts, standards, and expectations. Review updated standards and specifications. Review lessons learned and design pitfalls.

Time Required: 50 minutes

32. Low Cost Safety Alternative

Track: Traffic

Presenters: Bob Hull

Synopsis: This presentation highlights a national pooled fund study on evaluating safety strategies/countermeasures addressed in the NCHRP Report 500 guidebooks. Many of these tried or experimental strategies to improve safety have been implemented by state DOTs but have not been formally evaluated.

Time Required: 50 minutes

33. Managing Traffic Demand: A European Perspective

Track: Traffic

Presenters: Bob Hull

Synopsis: Managing the demand for automobile use is becoming an increasingly important strategy to address the negative consequences of traffic congestion. This presentation covers a scanning study completed on programs and policies to manage travel demand in Italy, Germany, the Netherlands, Sweden, and England.

Time Required: 50 minutes

34. ADA Compliance – Truncated Domes and Funding Sources

Track: Traffic

Presenters: Wes Starkenburg, Peter Jager, Larry Montoya

Synopsis: 1. Public Rights of Way Guideline - Second Revision

2. Status of Ped Ramp Program

3. Process for Ped ramp evaluation

4. Standard Drawing and Specification Update

5. Lessons Learned

Time Required: 50 minutes

35. New Development's in Financing Projects

Track: System Planning/Programming

Presenters: Max Ditlevsen, Linda Toy-Hull

Synopsis: Overview of recent developments in state funding for transportation projects, emerging financing opportunities such as Public Private Partnerships, as well as an update on the federal / state funds exchange program.

Time Required: 50 minutes

36. Web Based Photolog

Track: System Planning/Programming

Presenters: Jeff Ericson, Al Warr

Synopsis: Photolog is a great way to travel State Highways, without leaving your desk. It can be used to review road geometry, check sign locations, mileposts, etc... Each image also includes GPS position and altitude. The UDOT photolog database consists of digital images taken along State highways. This session will outline the recent changes to the program, as well as how the images are used for asset management, sign management, intersection analysis, access management and litigation.

Time Required: 50 minutes

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37. Accessing System Level Pavement Condition Data using Oracle Discoverer

Track: System Planning/Programming

Presenters: Bill Lawrence, Russ Scovil

Synopsis: UDOT's planning statistics section collects pavement condition data on the state highway system. The pavement condition data includes Falling Weight Deflectometer, International Roughness Index, Rutting, Faulting, Distress and Skid, and is collected on a system level basis. This information is stored by route, location, region, etc. from 1997 ~ 2006, and is available for use.

During the session Bill and Russ will explain the different types of data collected, its frequency, location and use, and then show how to access and query the data using an oracle database tool called Discoverer Plus.

Time Required: 90 minutes (Internet Access)

38. Bicycle and Pedestrian Checklists

Track: System Planning/Programming

Presenters: Sharon Briggs, UDOT Bicycle and Pedestrian Coordinator, Randy Jefferies, UDOT R.1 Project Design, John Miller, UDOT R.2 Project Management, Travis Jensen, Carter-Burgess Inc., Bicycle Advocacy

Synopsis: IT'S MORE THAN JUST ABOUT CARS - Planning and designing roads that accommodate bicyclists and pedestrians.

Be one of the first to learn about the bicycle and pedestrian checklists that are now in UDOT's Roadway Design Manual of Instruction – and will be in the Design Process Manual. Project designers must complete the checklists at the concept, scoping, and final design phases of state projects to ensure that bicyclist and pedestrian transportation needs are being met. Department support for the checklists is evidenced by the approval of Policy No. 07-117, titled Routine Accommodations for Bicyclists and Pedestrians.

Presenters will provide a background on the need for the program, and discuss the implementation and benefits of the checklists from a designer, project manager, and advocacy perspective.

Time Required: 50 minutes

39. I-15 Express Lane – Planning, Design and Implementation

Track: System Planning/Programming

Presenters: Tim Rose, Eric Rasband, Mike Kaczorowski, Caroline Brabrook, Dave Kinnecom and Bryan Chamberlain

Synopsis: The Express Lane on I-15 is a congestion management project to improve travel times on the corridor by allowing a limited number of single occupant vehicles to purchase the right to drive in the High Occupancy Vehicle lane. Presentation covers the following topics for the I-15 Express Lane:

- Planning, History, and Legislation
- Operational analysis
- Design
- Implementation
- Current Operation
- Preliminary findings will be presented

Time Required: 90 minutes

40. Utah: Crossroads of America's Commerce

Track: System Planning/Programming

Presenters: Daniel B. Kuhn, UDOT Freight Planner

Synopsis: This would be a modification of my existing Utah Freight Planning presentation, which would focus on the highway and rail corridors serving Utah, as well as reviewing the needs of freight transportation providers and shippers.

Time Required: 50 minutes

41. I-15 Study

Track: System Planning/Programming

Presenters: Eric Rasband/UDOT, David Thompson/Fehr & Peers

Synopsis: The UDOT Planning Section in cooperation with Region Two and Fehr and Peers has built a VISSIM micro-simulation model to analyze alternative treatments along Interstate 15 to address the nightly congestion from Interstate 80 to 14400 South in Salt Lake County. The alternatives evaluated include the new Express Lanes in each alternative. This breakout session will include a discussion on data collection, model development, alternatives analysis, and final project recommendations.

Time Required: 50 minutes

42. Pavement Management – “Good Roads Cost Less”

Track: System Planning/Programming

Presenters: Gary Kuhl, Austin Baysinger, Doug Anderson

Synopsis: An overview of UDOT Pavement Management. This session will provide information on condition modeling (dTIMS CT) and where STIP projects come from, the Plan for Every Section (PFES) Database, and how different investment strategies can be evaluated to optimize the system condition.

This past year UDOT worked with Deighton Associates to evaluate the effects of different preservation and rehabilitation strategies, on the network and the users, to achieve an appropriate funding balance between expansion and preservation.

Time Required: 50 minutes

43. Assessing the Economic Impacts of Transportation Improvement Projects

Track: System Planning/Programming

Presenters: Grant G. Schultz, Ph.D., P.E., PTOE & Andrew Stewart, EIT

Synopsis: To maintain an efficient transportation system and provide the infrastructure necessary for economic development and growth, transportation funding must be used efficiently to provide for the needs of the system. Primarily when considering the increase of capacity on the transportation network, funding availability oftentimes places constraints on the extent of the capacity that can be increased. To allocate necessary resources to the transportation system, most government agencies establish priorities for funding consideration. There is a need to assess the economic development impacts of transportation improvement projects and to investigate evaluation criteria and tools to incorporate economic development in the transportation planning process. The purpose of this presentation is to report the results of a research project to assess the economic development impacts of transportation improvement projects and to evaluate the tools available for incorporating possible economic evaluation metrics into the transportation planning process in the state of Utah. The results of the research can be incorporated into the long-range planning process as another tool in the toolbox to evaluate economic development impacts of transportation and to provide direction and guidance on the prioritization of projects based on economic performance and analysis using economics as one of the available selection metrics.

Time Required: 50 minutes

44. Funding an accelerated 10 year program of UDOT Programs

Track: System Planning/Programming

Presenters:

Synopsis: The session will involve a panel of senior policy staff representatives from UDOT, UTA, WFRC and MAG who will highlight the issues involved in accelerating the transportation program. Linda Bohlinger, HNTB Corporation would moderate the panel. Over the next ten years, which highway and transit projects are feasible, and what are the most promising funding sources? How does that vision change with the results of the November 2006 ballot measure for transportation funding (potential sales tax or property tax options)? What are the opportunities and obstacles for accelerating a program of projects?

The program would highlight those projects proposed by the Utah Department of Transportation (UDOT), the Utah Transit Authority (UTA), the Wasatch Front Regional Council (WFRC), the Mountain Land Association of Governments (MAG) and other planning agencies.

Time Required: 50 minutes

45. MEPDG Direction

Track: Materials

Presenters: Brent, Tim, Doug A., Mike D.

Synopsis: Where we are at and where we are going

Time Required: 50 minutes

46. Performance Testing of HMA

Track: Materials

Presenters: Kevin VanFrank and Howard Anderson

Synopsis: Update and Direction on SPT, HWT and Binder Testing

Time Required: 50 minutes

47. Quality Assurance Program Updates

Track: Materials

Presenters: Bryan Lee

Synopsis: Changes and Expectations. Updates to the MAP 1011, IA, QSM, TTQP, OJT and give a better understanding how these things can strengthen the confidence level in our testing.

Time Required: 50 minutes

48. Black vs. White Bidding

Track: Materials

Presenters: Brent Hadfield

Synopsis: UDOT's intention at the project bidding level

Time Required: 50 minutes

49. A systematic Approach to Cold In Place Recycling as a Rehabilitation , Joint FHWA and EPA initiative of Green Highways and National Review of Cold In-place Asphalt Recycling.

Track: Materials

Presenters: Stephane Charmot, SEM Materials, Jason Harrington, FHWA Asphalt pavement Engineer, Bryan Cawley, FHWA Assistant Division Administrator

Synopsis: Systematic Approach will be an overview of rehabilitation strategies and challenges, Programmatic guidelines for CIR selection (system level), Job site selection and CIR guidelines (project level) and analysis and critical parameters for successful CIR projects.

The Green Highways Initiative is a voluntary, collaborative, public/private effort designed to identify & promote streamlining and environmental stewardship in transportation planning, design, construction, and/or operation and maintenance through integrated partnerships, flexibility, rewards, and market-based solutions.

Cold In-place Asphalt Recycling is a method of utilizing the existing fatigued, hardened, and distressed asphalt pavement to produced a rejuvenated asphalt stabilized base. The base material is then capped with a structural wearing course of sufficient strength to withstand the governing loading.

Time Required: 90 minutes

50. Good Concrete Construction Practices, Fast Track Concrete Paving, Alternative Textures for Concrete Pavements

Track: Materials

Presenters: Ben Blankenship, Mike Ayers, Larry Scofield

Synopsis: Concrete pavements that are properly designed and well constructed are long-lasting, low maintenance and economical. Good performance requires uniform support, consistent thickness, adequate entrained air content, minimum strength, effective load transfer and numerous other factors. This session will focus on proven techniques for constructing concrete pavements as well as recent innovations in equipment, materials and processes. The latest research on optimizing the surface texture of concrete pavements for safety and performance will be discussed. Fast-track paving techniques will also be discussed as an alternative to conventional construction when early opening to traffic is necessary. A recent project that involved the full lane removal and replacement of up to ½ mile per night under heavy Interstate traffic will be highlighted.

Time Required: 90 minutes

51. Material Supply in Utah

Track: Materials

Presenters: Ben Blankenship, Todd Laker, Tim Biel

Synopsis: Where is our cement, aggregate and binder coming from in the future.

Time Required: 50 minutes

52. AGC Roundtable

Track: Construction

Presenters: A panel of both UDOT and AGC representatives

Synopsis: A panel discussion regarding issues of mutual interest to the AGC and UDOT.

Time Required: 90 minutes

53. Trends and changes in construction projects and how to manage them

Track: Construction

Presenters: Chad Hutchinson of Navigant Consulting

Synopsis: Chad, based on his experience as an estimator and consultant, will discuss the problems, which can come up on construction projects which impact schedule, and budget and how to address those issues and complete the project successfully.

Time Required: 90 minutes

54. Provo Canyon, Legacy Parkway Updates

Track: Construction

Presenters: Jim Golden, Todd Jensen or John Thomas

Synopsis: An overview of the project's status, challenges faced to this point and how those challenges were addressed

Time Required: 90 minutes

55. The New Inspector Training Manual and Partnering

Track: Construction

Presenters: Mike Garcia and the RCE's

Synopsis: This session will discuss the evolution of UDOT's new Inspector Training Manual and intended purpose. The second part of this session will provide an update on the partnering training process as we enter the phase II training as well as discussing the input process for the online rating and the overall health of partnering on UDOT projects.

Time Required: 50 minutes

56. I-15 NOW Design Build Project

Track: Construction

Presenters: Brent DeYoung

Synopsis: This session will provide an overview of the \$265 million I-15 NOW Design Build project in Ogden. You will learn about the challenges faced and unique ideas used to overcome these challenges during the environmental and procurement process. The methods used provided flexibility for both the Department during the procurement process and for the Design Builder during the design process. Elements of the "Best Value" selection process used in selecting a Design Builder and the philosophy used to structure oversight management on a design build project will also be discussed.

Time Required: 50 minutes

57. Changes in the Project Development Business System (PDBS)

Track: Construction

Presenters: Jesse Sweeten

Synopsis: We will review and show recent changes to PDBS including Electronic Change Orders and Additive Bidding options. We will also discuss the Contractor Module implemented in April (Request to Sublet, Subcontractor Payments, and other information entered by the Contractor).

Time Required: 50 minutes

58. How to address property damage claims due to construction when contractors and their insurance companies drag their feet.

Track: Construction

Presenters: Warren Grames and Garr Ovard

Synopsis: Addressing damage done by contractors to constituent's property when the contractor delays the claims process or ignores the problem entirely. What is UDOT's expectation of providing exceptional customer service?

Time Required: 50 minutes

59. Survey Methods and Accuracies

Track: Construction

Presenters: Keith Hafen of ESI and Kelly Francis of Aero-graphics

Synopsis: A panel discussion by three of the top survey companies in Utah, Aero-graphics, ESI, Psomas. The panel will discuss the accuracy needed at each phase of a project and what survey instruments should be used to obtain the survey data. With the explosion of using GPS and CADD it is essential that the surveyor, mapper, designer, and construction personnel understand the different methods of obtaining survey and mapping data and the accuracies associated with the data collected. The session will focus on the different survey methods, the accuracies needed for each phase of a project and how to specify the accuracies needed. New survey methods will also be discussed. The session will also provide guidance on specifics that the engineers/planners need to provide to the surveyors/mappers to make sure they are getting the type and level of accuracy they need.

Time Required: 50 minutes

60. Asset Management – Planning, Strategy and Implementation

Track: ROW

Presenters: Jason Amadori

Synopsis: Public and private agencies face continuous challenges to accomplish more with less as increases in demand, regulatory requirements, infrastructure deterioration, and political and economic forces have significantly outpaced increases in capital and operating budgets. Many of these agencies are turning to Asset Management to cope with these challenges and improve business performance and effectiveness. This workshop will focus on several aspects of developing an asset management system that could help improve performance, reduce long-term costs, and maximize return on investment in infrastructure assets.

Time Required: 50 minutes

61. PreFab Bridges – Rapid Replacement

Track: Structures

Presenters: Boyd Wheeler, Richard Miller

Synopsis: This breakout session will look at efforts to implement Prefab bridges and accelerated bridge practices in Utah. Past successes will be discussed. Current efforts will be detailed and future opportunities will be discussed.

Time Required: 50 minutes

62. Bridge Aesthetics

Track: Structures

Presenters: Robert J Shulock

Synopsis: This session will investigate concepts for implementing cost effective Structural aesthetics into projects.

Time Required: 50 minutes

63. QC/QA Bridge Design Process

Track: Structures

Presenters: Boyd Wheeler, Richard Miller

Synopsis: This Breakout session will include a discussion of recent changes in the Bridge Design Section. It will also discuss use of contract employees and efforts to implement new standards. The current requirements for all projects for QC/QA will be discussed.

Time Required: 50 minutes

64. Research Initiatives

Track: Research

Presenters: Michael Fazio, Blaine Leonard, Ken Berg, Barry Sharp and Abdul Wakil

Synopsis: A session where the Research Division can present all the initiatives they are working on.

Time Required: 90 minutes

65. Being a UDOT Leader and Project Manager

Track: Project Management

Presenters: Fred Doehring, Angelo Papastamos

Synopsis: The 2006 Tour De ePM was a smashing success thanks to Fred Doehring and the ePM band and now he is back and ready to kick-off the 2007 Tour De Fred at the UDOT Conference. Fred brings with him a new sidekick, the sensitive one, Angelo Papastamos in the Tour de Fred 2007. This Kick-off Session of the Tour de Fred promises to be an interactive, informative, fun workshop learning some of the tips & trades of succeeding as a Leader and a Project Manager at UDOT. The session is geared toward Project Managers, but anyone whom is interested in leadership and project management is welcome to attend. Come kick-off the Tour de Fred and be a part of the Peloton.

The three most interactive leaders of the Peloton will win free Tour de Fred t-shirts.

Time Required: 50 minutes

66. CEVP

Track: Project Management

Presenters: Fred Doehring

Synopsis: Over the past year there has been increasing interest in CEVP (Cost Estimate Validation Process). CEVP is a risk-based analysis of a project's estimate and schedule. For this year's conference, I thought it might be useful to give a fairly detailed description of the CEVP process. I'll cover what information is needed as input, what the format of the CEVP workshop looks like, who should be involved in the workshop, what actually happens in behind the scenes, and what information will come out of the workshop. 50 minutes is not much time to cover this much information, so this will be a whirlwind tour of CEVP. Hang on!

Time Required: 50 minutes

67. Contract Management System/ePM

Track: Project Management

Presenters: Gaye Hettrick, Alan Loiacono, Raeleen Sanchez, Becky Stromness

Synopsis: An overview of the new Consultant Services Contract Management System that has been developed within ePM. The new CMS system will facilitate Project Managers in their requests for Pool and RFQ Contracts. The system will aid Project Managers in identifying potential Consultants for Pool Contracts. Project Managers will be able to monitor the progress of their contracts online through ePM. Information will be provided on Contract Requests, Contract Status, R709s, Cooperative Agreements, and Modification Requests

68. Program Development Training (STIP & Funding)

Track: Project Management

Presenters: Max Ditlevsen, Robert Pelly, Rebecka Stromness

Synopsis: An overview of the ePM enhancement project to add STIP and Obligation of Funds reporting capability to the ePM system. Information will be provided on submitting projects for funding consideration, selecting projects for the STIP, amending projects, and financial reporting of federal and state obligation of funds to projects.

69. Design Exception/Design Waiver/Deviation from UDOT Standards

Track: Project Management

Presenters: Barry Axelrod

Synopsis: This session repeats information presented in other forums by the UDOT Standards and Specifications Section. The Design Exception/Design Waiver/Deviation process has now been in effect since June 2006. The session covers basic instructions in completing the required form. Areas dealing with Design Exceptions and Design Waivers will briefly be touched on to highlight any problem areas and changes implemented with this process. The area of Deviation from UDOT Standards will be covered in detail to explain that part of the process, use of the three levels of Special Provisions, and problem areas related to the use of Supplemental Specifications and Special Provisions. If you have not attended one of our earlier sessions and are involved in project design or want a refresher this session is for you.

Time Required: 50 minutes

70. Red Flag Analysis and Estimating

Track: Project Management

Presenters: Stan Burns, Richard Miller, Jason Henrie

Synopsis: Accurate engineer's estimates are now a performance measure for consultant and in-house designers. UDOT is currently measuring and posting on the Internet the cost estimating performance of consultants and in-house design squads based on their project's low bid. To assist designers in better anticipating project costs, UDOT has introduced the Red Flag Analysis in PDBS. This session will provide a brief overview of the Red Flag Analysis and will also cover the performance measure tabulation, cost estimating resources on the UDOT website, and a review of how the Red Flag Analysis was applied to projects currently out to bid. The session will also address the recent cost increases experienced in the heavy construction industry and will provide suggestions on preparing engineer's estimates in the current bidding environment

Time Required: 30 minutes. In and Access

71. Passing the 'Headlines' Test: Ethical Practices for Public Employees

Track: Miscellaneous

Presenters: Jim Phillips and Jimmy Holfeltz

Synopsis: Ask yourself, does it pass the newspaper test? Almost daily around here, anymore, it's hard to pick up a newspaper without finding a story sighting unethical behavior by a public employee. Too often highlighted are activities revolving around questionable procurement practices engaged in by state, city or local employees, not just elected officials.

Could you be headed for notoriety based on an up-coming newspaper article or column?
Even though your job title isn't Purchasing Agent or Buyer, are you at risk?

This session will discuss how to be aware of and avoid compromising situations in dealing with Suppliers who are vying for business with or who currently provide products or services to UDOT, even if you're only on the fringe.

Issues to be addressed during this Session include:

Perceived Impropriety; including Beyond the Clock

Our Responsibility to the State and Public (our Constituents/Customers)

Conflict of Interest

Issues of Influence; External as well as Internal

Supplier Relationships

Reciprocity

Gifts and Gratuities; what they *really* are and the solicitation of or receipt thereof.

Applicable Laws

- Signs Auditors Look For

Time Required: 90 minutes

72. Leadership and Time Management

Track: Leadership

Presenters: Rick Murdock

Synopsis: The scenario is a DeCoster Time Management refresher course. Fourteen common time management questions will be answered. David Allen's process for Getting Things Done will also be showcased.

Time Required: 50 minutes

73. Stewardship Agreement

Track: Leadership

Presenters: Richard Miller

Synopsis: The session will review the recently signed Stewardship and Oversight Agreement between FHWA, Utah Division and UDOT. The passage of SAFTEA-LU allows delegation of stewardship and oversight responsibilities beyond the limits of the two previous Highway Bills. Delegated responsibilities to UDOT will be discussed. FHWA, UTAH Division and UDOT to monitor the health of implementation of the Federal-Aid Highway Program are using performance Indicators/Measures. Bottom line is UDOT will have the lead role in compliance of tasks completed by the FHWA in previous Stewardship/Oversight Agreements.

Time Required: 50 minutes

74. Avoiding the Bermuda Triangle – ROW Cost Estimating

Track: ROW

Presenters: Wayne Larsen, Ray Bennett and Eric Lyon.

Synopsis: This phenomenon is known to adversely affect a project's advertising date. The trepidation of acquiring right of way could triangulate a project's budget, scope and schedule. Come witness examples of this phenomenon, learn how to navigate around its gravitational influence, clear your project's right of way on time, on budget, and without limitations.

Time Required: 50 minutes

75. Canceled.

76. University Students Session

Track: Miscellaneous

Presenters: Rick Murdock

Synopsis: One Room is reserved for Tuesday Morning 8:00am for this meeting/orientation.

Time Required: 90 minutes

77. New ROW training for Local Government Agencies and Udot Project Managers

Track: Miscellaneous

Presenters: Karen Stein, Lamar Mabey

Synopsis: This session would provide a preview of newly developed training materials (including a sample lesson from the new FHWA training materials.) ROW plans to roll out training in 2007 for local agencies and PM's to be coordinated thru the regions and MPO's. Our goal, in keeping with FHWA recommendations is to certify local agencies so they can clear right of way using local agency staff. This training program will be the first step in establishing that program.

Time Required: 50 minutes, Internet Access

78. ROW Asset Management for UDOT's real property/surplus property

Track: Miscellaneous

Presenters: Craig Fox

Synopsis: from a ROW perspective. How we track our properties (Leased, excess, water rights) in row epm

Time Required: 50 minutes, Internet Access

79. SMS - Safety Management System

Track: Traffic and Safety

Presenters: Rob Clayton, Linda Massie and Sheldon Thornock

Synopsis: A live training session to demonstrate the new CARS (crash record database) program that will have significantly different and enhanced capabilities to users.

Time Required: 50 minutes **Internet Access:**

80. The Extraordinary Leader - Moving Individuals & Teams from Good to Great

Track: Miscellaneous

Presenters: Sydne Jacques, Jacques & Associates

Synopsis: In today's rapidly changing, highly competitive environment, the organizations that excel will be those people are most competent, passionate, and focused on delivering results.

In this workshop you will gain a new level of understanding that will help not only benefit the development of your organization, but your personal development as well.

We will provide a proven framework for helping each individual make a profound difference to the organization's results, and to his or her own performance and development.

You will be introduced to ideas and proven research-based principles of leadership performance that will help you find ways to break the mediocrity barrier and achieve extraordinary performance.

Come join us for home made cookies and an experience that will move you from Good to Great!

Time Required: 50 minutes

2007 Engineering Conference Breakout Sessions

1. Transportation Fairs

Track: Public Involvement

Presenters: Myron Lee, Geoff Dupaix, Andy Neff, Angelo Popastamos, Tamerha Maxwell, Justin Smart (Langdon Group)

Synopsis: If you work in planning, project management, environmental, and even construction and you notice a lot of transportation projects within a specific area, what can you do to help the public not get overwhelmed with all the information from the different projects? Come find out about transportation fairs and how they can help the public see how projects fit within the bigger transportation picture. This presentation will show you why and when to use them.

Time Required: 90 Minutes

2. Construction Level P.I.

Track: Public Involvement

Presenters: Myron Lee, Josh VanJuara and Steve Poulsen

Synopsis: Planners and designers can spend years moving a road project through the environmental and design phases. But only when the first barrels appear and heavy equipment starts rolling through a project do people fully realize what potential conflicts loom between contractor, business owner, and motorist during construction – emotions can begin to run high and confrontations may seem necessary. This breakout session will explore how resident engineers, field engineers and construction project managers can calm the nerves of residents and business owners during the construction phase of a road project, how conflicts may be resolved before they arise, and how UDOT and its contractors can benefit from well placed public involvement activities during construction.

Time Required: 50 Minutes

3. “Know Where Know Why” Media / PR Strategy

Track: Public Involvement

Presenters: Chris Thomas, Aubrey Cichelli, Nate McDonald (The Intrepid Group)

Synopsis: The strategy, tactics and results of the inaugural “Know Where Know Why” summer construction campaign. In addition, the initial plans for the 2008 campaign will be discussed and include an open forum for input and feedback.

Time Required: 90 Minutes

4. Collaboration in NEPA: improving decisions by engaging effectively with agencies and the public

Track: Public Involvement

Presenters: Janet Barbieri and Nicholas Dewar (Jones & Stokes)

Synopsis: “Collaboration in NEPA” - happens to also be the title of a proposed CEQ guidance document that was released for public review on March 16. The guidance focuses on the benefits of a collaborative approach to NEPA compliance. It also provides case studies and sample documents for the collaborating agencies.

Time Required: 50 Minutes

5. New Regulatory Wetland Guidance

Track: Environmental

Presenters: Ken Bogdan (Jones & Stokes)

Synopsis: New regulatory wetland guidance has come out discussing Clean Water Act jurisdiction following the U.S. Supreme Court decision in Rapanos v. United States. This session will discuss the new guidance and how it affects transportation projects.

Time Required: 50 Minutes

6. Wildlife Crossings - A Corridor Perspective

Track: Environmental

Presenter: TBD

Synopsis: Wildlife crossing can and do work. They can be an important part of the context sensitive solutions for your projects. Installing them in the wrong location, or without the right entrance characteristics can greatly reduce their effectiveness. Locations are best determined at the corridor level. This session explains the methodology and process UDOT went through on a recent study of I-70 in Region Four to determine future locations for wildlife crossings. A key ingredient to making crossings happen is to make them both economical and effective - these key factors will be part of the discussion.

Time Required: 90 Minutes

7. Categorical Exclusion Document Preparation

Track: Environmental

Presenter: UDOT Central Environmental Staff

Synopsis: This session will focus on the preparation of Categorical Exclusion Environmental Documents. A tutorial of the ePM Categorical Exclusion Form will be demonstrated. Common mistakes and reoccurring problems will also be discussed.

Time Required: 50 Minutes

8. Accelerating the EA Process: Lessons Learned from SR-68

Track: Environmental

Presenter: Amy Zaref/Chris Elison, Parsons Brinkerhoff

Synopsis: This session will focus on how to develop a schedule and approach to accelerate the EA process. The NEPA process allows for flexibility, this session will examine ways to meet the NEPA requirements and apply environmental impact analysis methods to develop a NEPA document that "fits" the size and scope of the project. We will use the SR-68, Bangerter Highway to Saratoga Springs EA as an example to share lessons learned, both what worked well and where the process could have been improved.

Time Required: 50 Minutes

9. Emissions Impossible -- The UDOT Quarry Permitting Case Study

Track: Environmental

Presenters: Mark Hooyer, Kleinfelder, Inc., Salt Lake City, Utah, Mike Robinson, P.E., Kleinfelder, Inc., Reno, Nevada, Todd Jensen, Utah Department of Transportation, Legacy Parkway Team.

Synopsis: This talk highlights the methods and resources used to accomplish this remarkable project. It started with an "impossible" request. To reduce rising construction material costs for Utah's high-profile Legacy Parkway project. This quarry would be used to provide an estimated 4 million tons of needed aggregate materials at little to no cost to the contractors bidding on the project, thus offsetting escalating construction costs. To accomplish this project, a core team of eleven personnel with expertise in air quality and mining engineering teamed together for five weeks. Innovative approaches were needed to accomplish this project within the deadlines and regulatory constraints at hand.

Time Required: 50 Minutes

10. Mountain View Corridor Update

Track: Environmental

Presenter: MVC Team

Synopsis: An update of the Mountain View Corridor Project.

Time Required: 90 Minutes

11. Link Planning and NEPA GIS Tool

Track: Environmental

Presenter: Terry Johnson, Chris Glazier, UDOT

Synopsis: In an effort to link planning and NEPA, UDOT in cooperation with AGRC and ESRI has developed a GIS web-based application. It is intended to aid transportation planners and environmental decision makers in accessing and analyzing environmental data layers. This session will introduce and demonstrate this new application.

Time Required: 50 Minutes

12. Initiative

Track: Leadership/Organizational Issues

Presenters: Kirk Weisler

Synopsis: Motivational speaker – Morning session on Wednesday, November 14th

Time required: 50 minutes

13. Initiative

Track: Leadership/Organizational Issues

Presenters: Kirk Weisler

Synopsis: Motivational Speaker – afternoon session on Wednesday, November 14th

Time required: 50 minutes

14. The Future of Engineering: Civil Engineering in 2025

Track: Leadership/Organizational Issues

Presenters: Blaine Leonard

Synopsis: This presentation is based on some studies which have been carried out by the National Academy of Engineering, ASCE, and others. It looks at trends affecting our industry, and the world, and "predicts" some of the conditions we will be dealing with in 25 years. It is a "gee whiz" presentation with all kinds of facts and trends, which causes us to think in the bigger picture and look forward a couple of decades.

Time required: 50 minutes

15. Lessons Learned from the Attorney General's office on UDOT projects

Track: Leadership/Organizational Issues

Presenters: AG Office

Synopsis: One of the best breakout sessions happened two years ago. Two members of the Attorney General staff discussed legal cases that involved UDOT. They talked about what we did right and what we did wrong and what we could do to improve our chances with the courts.

Time required: 50 minutes

16. UTA Project Updates

Track: Leadership/Organizational Issues

Presenter(s): Steve Meyers

Synopsis: A presentation to give updates on CommuterRail and light-rail spurs.

Time required: 90 minutes

17. University Students

Track: Leadership/Organizational Issues

Presenter(s): Rick Murdock

Synopsis: A UDOT-sponsored informational session for University Student attendees.

Time required: 50 minutes

18. Wind Design

Track: Maintenance

Presenters: Ron Tabler, PE PhD

Synopsis: Wind related roadway operation problems such as snow drifts, wind shear zones, blowing dust, and poor visibility compound safety concerns for motorists. Naturally occurring events such as high winds can be anticipated during the roadway design and mitigated by incorporating appropriate design elements. Retrofitting existing roads with wind mitigating features like snow fences and wind deflectors may substantially improve safety and reduce accidents. Solutions for wind challenges are often simple. Close coordination with the station supervisor and with the UDOT Weather Operations Group helps to both identify problem areas that should receive extra attention, and to avoid or minimize wind-related problems with the constructed roadway.

Time required: 50 minutes

19. Roadway Design with Maintenance in Mind

Track: Roadway Design

Presenters: Steve Acerson, Region 3 Station Supervisors, Lynn Bernhard

Synopsis: Despite our best efforts, an otherwise well done roadway design sometimes results in challenges of various varieties for maintenance forces. These challenges may be related to winter maintenance, or to accessibility to features that may require maintenance, or to materials that may be difficult to replace or repair, or to other aspects of the design. Most often these challenges are remedied by simple design changes. Early, close coordination with the local station supervisor is often the best way to both identify problem areas that should receive extra attention during design, and to avoid or minimize maintenance challenges with the finished product.

Time required: 90 minutes

20. UDOT Maintenance Blasting Program

Track: Maintenance

Presenters: AJ Rogers, Les Henrie, Layne Slack

Synopsis: The Price district has been doing quite a bit of explosives work in the past three or four years, more than anyone else in the state, not counting the avalanche crews. Price is considering offering the services of its blasting crew to the rest of the Regions in the future, as they are probably the most experienced, at least recently experienced. This presentation will cover some of the services a blasting crew could provide, including rock slide removal, beaver dam eradication, boulder busting, etc. It will also demonstrate the latest technology in blasting components and techniques, and explain the Department's blaster training program put on by Les Henrie, Ree Schena, and Layne Slack.

Time required: 50 minutes

21. Emergency Operations - Are We Ready?

Track: Maintenance

Presenters: Major Jeffery Gravier (Deputy Director, Utah Division of Homeland Security), Tracy Conti, Dave Kinnecom

Synopsis: How is the state of Utah organized to respond to emergencies? What emergencies should we plan for? Earthquakes, floods, multiple accidents, range fires? What is the role of the new Division of Homeland Security in the Department of Public Safety? What are the requirements of the National Incident Management System and the Incident Command System? What is UDOT's plan for emergencies and what does it mean for you?

Time required 50 minutes

22. Maintenance Decision Support Systems (MDSS) Road Show

Track: Maintenance

Presenter: Russ Robertson (FHWA Utah Division)

Synopsis: Each year, the Federal Highway Administration (FHWA) spends much effort developing and deploying innovations that are designed to meet critical highway needs. To maximize the effectiveness of promising technologies, FHWA has taken a close look at how technologies were deployed or marketed and has identified 24 "Priority, Market-Ready Technologies and Innovations" that the Agency has designated as "push" technologies, as well as other solutions that are presently being successfully deployed. MDSS is one of these technologies. MDS Systems are advanced tools for forecasting weather events in real time for specific locations, and for using the data to make decisions regarding the maintenance response to the storm. The Road Show is a free seminar aimed at transportation managers, maintenance engineers and operators. It describes the MDSS and its capabilities, providing a level of detail that helps public agencies make more informed decisions about their maintenance investments.

Time required 50 minutes

23. Maintenance Planning and Operations: “Where we’ve been, where we are, and where we are going”

Track: Maintenance

Presenters: Tim Ularich, Mike Marz, Lloyd Neeley, Eugene Simon (AgileAssets)

Synopsis: This session will take a look at the history and development of maintenance management practices using computer systems and the current development of the Operations Management System (OMS). The first part of the session will be a PowerPoint highlighting MMS, MMQA, and MFI in their current form. The second part will be a demonstration of some of the functions within OMS that will help with the implementation of Zero Based Budgeting (ZBB) for maintenance and construction budgets. The session will wrap up with a Q&A period.

Time required: 50 minutes

24. Context Sensitive Solutions (CSS) Institutionalization – Are we there yet? Where are we heading?

Track: Project Management

Presenters: Angelo Papastamos

Synopsis: Come see the new CSS Inner-web site, learn how to get CSS certified, and interact with some true champions of UDOT’s CSS Philosophy. You will hear a few success stories of implementing UDOT’s CSS Philosophy from a few different perspectives and of course, being context sensitive, you will have an opportunity to share with us your CSS thoughts and perspectives.

Time required: 90 minutes

25. Geofoam Settlement Performance

Track: Geotechnical

Presenters: Clifton Farnsworth

Synopsis: Comparison of construction time, cost, and performance for a one-stage MSE wall with Lime Cement Columns, Geofoam embankments and two-stage MSE walls with PV drains as reported on the ASCE Geotech Journal (proceedings of UDOT/UofU research venture).

Time required: 50 minutes

26. ePM for Functional Managers

Track: Project Management

Presenters: Tony Lau and Griff Campbell

Synopsis: Overview of Functional Manager’s responsibilities and how using the ePM System can help manage resources and schedules. We will explore new features, how a Project Manager sets up a project, how to conduct project research for payroll & reporting, updating project activity dates and hours for the MPS (Multiple Project Scheduling) run and how to use the system to determine your workload.

Time required: 50 minutes

27. What PMs need to know about the Project Advertisement Checklist

Track: Project Management

Presenters: Marjorie Sanchez, Kathy Starks, Betty Bangerter

Synopsis: Tips to successfully prepare the Advertisement Checklist for Federal projects including plan sheets. UDOT and FHWA requirements for advertisement of Federal projects will be discussed. A panel will be available to answer questions.

Time required: 50 minutes

28. Salt Lake County West Side Bicycle Study

Track: Systems Planning and Programming

Presenters: Travis Jensen

Synopsis: Presentation about a comprehensive bicycle planning study that was done to address future needs and priorities for bike routes in western Salt Lake County. The purpose of the study was to (1) obtain existing bicycle plans from communities within the study area, (2) put all of the proposed routes onto a single set of maps, (3) recommend a method for prioritizing the routes, and (4) discuss design considerations that will likely be important in the area.

Time required: 50 minutes

29. GIS and Dixie Western Corridor Study

Track: Project Management

Presenters: Thomas McMurtry and Lowell Elmer

Synopsis: Developing alignments for a future corridor can be a difficult, but beneficial process. A corridor study can ease the work required for an EIS by doing effective analysis and using good local data and expertise. The Dixie Western Corridor Study was a rewarding project that identified a future alignment of a major corridor. Like many major roadway projects the Dixie Western Corridor Study had several daunting issues including: protected species habitat in the study area, elevation and slope problems, existing residential communities, crossing two rivers and others. Through a process of weighting and measuring different criteria using GIS, each of these issues and many more were addressed and different alignment options were evaluated. There were lessons learned and success stories associated with this project including, working with agencies like the BLM to back the recommended corridor and calming a hot political issue. Corridor studies like this one are a way to exercise good planning. Preserving an alignment prior to development reduces impacts and costs for the corridor and addressing concerns and issues early allows time for compromising solutions.

Time required: 50 minutes

30. Construction Manager General Contractor (CMGC) Update and Lessons Learned

Track: Project Management

Presenters: Fred Doehring/Stan Burns and Tamerha Maxwell/Rick Torgerson

Synopsis: CMGC process status update and Lessons Learned from projects done to date including two Region 4 CMGC projects the SR-18 Widening and the Southern Parkway, including what worked well and what was a challenge for these projects.

Time required: 90 minutes

31. Cost Estimate Validation Process (CEVP)

Track: Project Management

Presenters: Fred Doehring and Steve Poulsen

Synopsis: The Role of CEVP in UDOT

Time required: 50 minutes

32. Accomplishing UDOT's Final 4 Strategic Goals using Low Cost ITS Concepts

Track: ITS / Traffic Management / Safety

Primary Presenters: Mark Taylor, Ralph Paterson, Danielle Herrscher, Grant Shultz

Back-up Presenters:

Synopsis: This session will cover the following topics: Ramp Metering Benefits, Advanced Warning Signs, Traffic Signal Dilemma Zone Safety and Efficiency using Radar, Variable Lane Use, RWIS, and Flashing Yellow Arrow for Permissive Left Turns.

Time Required: 90 minutes

33. Two-Lane Rural Highway Safety and Design Integrity using IHSDM

Track: ITS / Traffic Management / Safety

Primary Presenters: Mitsu Saito

Back-up Presenters:

Synopsis: Dr. Saito and his research assistants have been conducting a study related to two-lane rural highway safety and design integrity evaluation using FHWA's IHSDM (Interactive Highway Safety Design Model) software to evaluate how IHSDM can be incorporated in regular safety audit practices. By November, most of the work will have been completed and findings will be presented.

Time Required: 90 minutes

34. Pedestrian Access Update

Track: ITS / Traffic Management / Safety

Presenters: Larry Montoya, Dan Snell (PEC)

Synopsis: Still confused about ped ramps and what is required by the stipulation settlement? This session will provide an up-to-date overview of the pedestrian access program including: available funding; necessary funding utilization; project package preparation; construction issues; ramp evaluation; database; and requesting funding support for orange book projects.

Time Required: 90 minutes

35. Sign Design Manual

Track: ITS / Traffic Management / Safety

Presenters: John Leonard & Tim Taylor

Synopsis: The new UDOT Sign Design Manual has been developed to provide general sign design guidelines for UDOT, clarify direction when the MUTCD provides more than one option and address signing unique to UDOT including the Drowsy Driver and UDOT's unique school zone signing.

Time Required: 50 minutes

36. Guardrail, Barrier, Crash Cushions—Policy and Practice

Track: ITS / Traffic Management / Safety

Presenter: John Leonard

Synopsis: Guardrail, barrier and Crash Cushion policy and practice will be discussed at this session.

Time Required: 50

37. Changes to Standard Traffic Control Drawings

Track: ITS / Traffic Management / Safety

Presenter: John Leonard

Synopsis: Recent changes to the Traffic Control Standard Drawing will be discussed at this session.

Time Required: 50

38. Work Zone Safety and Mobility Policy

Track: ITS / Traffic Management / Safety

Presenter: Kris Peterson, Robert Miles, Roland Stanger

Synopsis: Find out the latest on the Work Zone Safety and Mobility Policy.

Time Required: 50 minutes

39. Safety Performance Measures and Comprehensive Safety Plan

Track: ITS / Traffic Management / Safety

Presenter: Robert Hull

Synopsis: UDOT as part of the Utah Safety Leadership Team, has completed the Utah Comprehensive Safety Plan. This Plan is required for every state under SAFETEA-LU. The Plan identifies mitigation strategies and lead agencies for 21 safety areas of concern. In addition, safety performance measures have been developed as target fatality reductions for each safety area with in the Plan. The next step is implementing the Plan within UDOT.

Time Required: 50 minutes

40. Safe Routes to School

Track: ITS / Traffic Management / Safety

Presenter: Michael Kaczorowski

Synopsis: FHWA has initiated a program whose goal is to encourage students to walk or bike to school. The program will award funds to both infrastructure projects such as sidewalks, and non-infrastructure projects such as incentives and events that educate and promote waking and biking to school. Those applicants awarded funds must hire their own engineers for design and construction management, so this session should interest contractors and design firms.

Time Required: 50 minutes

41. Technology Transforming Transportation (VII Update)

Track: ITS / Traffic Management / Safety

Presenters: Bryan Chamberlain and Richard Manser

Synopsis: Using technology to communicate between the vehicle, the roadway and the driver will provide major breakthroughs in safety and mobility on the highways. Many of the major car manufactures along the USDOT and many of the state DOTs, including UDOT, are working together to make this vision a reality. Proof of concept testing is currently underway in Michigan where 75 miles of roadway has been instrumented with 57 wireless units installed at key intersections. Information exchanged includes traffic signal timing, advisory information for the driver, vehicle data including speed, direction, location, etc. Come learn more about the status of the Vehicle Infrastructure Integration initiative and how it will impact the future of transportation.

Time Required: 50 minutes

42. Safety Analysis of Fatigue and Drowsy Driving

Track: ITS / Traffic Management / Safety

Presenter: Dr. Grant Shultz

Synopsis: Fatigue and drowsy driving is one of the primary focus areas of the "ZERO Fatalities" initiative currently underway in the state. The purpose of this session is to summarize research related to fatigue and drowsy driving in the state of Utah. This will include providing a summary of high crash locations where fatigue and drowsy driving is assumed to be the significant causal factor of crashes. Also included is an evaluation of the effectiveness of current mitigation measures utilized by UDOT including the interstate fatigue warning signs currently in place on I-80 in the west desert. Possible engineering solutions to mitigate the concerns at locations identified wherein fatigue and drowsy driving is assumed to be the significant causal factor of crashes will be provided including additional signage, rumble strips, rest stops, and others. The results of this session will be to summarize direction and guidance provided to UDOT on the identification and prioritization of corridors in which driver fatigue is a potential causal factor for crashes.

Time required: 50 minutes

43. A Prioritization Process for Access Management Implementation in Utah

Track: Systems Planning and Programming

Presenters: Grant G. Schultz, Ph.D., P.E., PTOE; Kordel Braley, EIT

Synopsis: Appropriate access management techniques can improve the safety and efficiency of arterial roads. To determine which roads can most benefit by the implementation of access management techniques, a prioritization process was developed to recommend various access management treatments. To serve as the basis for the performance index, a database was created including identifying features, characteristics, and crash history for 175 arterial road segments on Utah state routes. Stepwise linear regression was applied to the data collected to determine which characteristics of the roads were correlated with crash rate, crash severity, and specific collision types. Recommendations for access management treatments were given in the form of a decision tree to classify existing or future road segments into subcategories based on volume, signal spacing, land use, and other criteria with recommendations provided for each subcategory. The purpose of this session is to present the results of this analysis and to discuss the prioritization of access management techniques.

Time Required: 50 minutes

44. Highway Financing in Utah

Track: Systems Planning and Programming

Presenters: Linda Hull, Robert Pelly and Max Ditlevsen

Synopsis: An update/overview of all federal and state sources of funds for projects, including include a short piece on the ePM/STIP module to show how all funding is tracked and to showcase some functionalities of the system.

Time Required: 90 minutes

45. Asset Management & Pavement Management Programs

Track: Systems Planning and Programming

Presenters: Lloyd Neeley, Gary Kuhl, Tim Rose and Steve Poulsen

Synopsis: A programmatic discussion of pavement program development, based on field needs and budget realities. Also Asset Management principles and UDOT's philosophy on Asset Management, what tools and data are used to develop the Department's System Preservation Plan.

Time Required: 90 minutes

46. New Traffic Data Technology

Track: Systems Planning and Programming

Presenters: Lee Theobald and Peter Jager

Synopsis: I have some previous presentations we could use on the work we do in Planning Statistics and how the Regions can use it. Lee's group is using Google Earth to produce some improved traffic reporting. We also have a new traffic data system being implemented, I'm not sure if it will be far enough along to discuss it, but if so it would be a worthy topic.

Time Required: 50 minutes

47. Local Road Inventory in GIS & the AGRC

Track: Systems Planning and Programming

Presenters: Lee Theobald and Peter Jager

Synopsis: We have a joint project with the AGRC to create a GIS layer of all local B roads in the state. The presentation would also be a joint effort. We would talk about the purpose & process behind the inventory. The AGRC would present the mapping & imagery they produce for use by all state agencies.

Time Required: 90 minutes

48. AGC Roundtable Discussion

Track: Construction/AGC

Presenter: Rich Thorne

Synopsis: An opportunity to discuss the past years successes and problems and determine how to improve things or continue for them to go well.

Time Required: 90 minutes

49. Legal Issues in UDOT Construction

Track: Construction/AGC

Presenter: Bruce Garner

Synopsis: A discussion of legal issues which impact UDOT construction projects and how to address them.

Time Required: 50 minutes

50. Recap of the Progress on UDOT's Major Projects; Legacy, I-15 NOW, Provo Canyon

Track: Construction/AGC

Presenters: Randy Jefferies, Todd Jensen, and Jim Golden

Synopsis: Recap of the Progress on UDOT's Major Projects; Legacy, I-15 NOW, Provo Canyon

Time Required: Two back to back sessions, 90, plus 50 minutes

51. Alternatives in Paving: Rubberized Asphalt Applications in Freeze/Thaw Climates

Track: Materials

Presenters: Saleem Khatak, Bob Syme and Keith Goodson

Synopsis:

Pavement life is a big issue for any organization responsible for the installation and maintenance of roadways. Milled and overlaid asphalt traditionally lasts 15-20 years in milder climates, historically, those same applications have an average lifespan of 8-10 years in climates where there are higher numbers of freeze-thaw events, higher levels of ultraviolet light, and other conditions that exist in less mild and mountainous climates. Asphalt pavement modified with tire rubber has been used experimentally since 1950 with success in mild climates...but somewhat unsuccessful attempts have been made in climates such as in Utah and Colorado. This session will explore an alternative for climates such as Utah. In 2006, the City of Colorado Springs, Colorado, took on the challenge of creating and testing a new rubberized asphalt blend in hopes of easing their roadway maintenance angst. Four test sections of Terminal Blend Tire Rubber Asphalt (TBTRA), or Permeable Friction Course (PFC) Pavement, have been created with almost 8 miles of roadway. Although testing will continue for another year, and four more miles of test sections are planned for 2007, initial results are creating optimism. This experiment will serve as a Case Study for the Breakout Session.

Time required: 90 minutes

52. UDOT Standard Specifications – 2008 Edition (Materials Specifications)

Track: Materials

Presenters: Central Materials Staff – Tim Biel, Kevin VanFrank, Bryan Lee.

Synopsis: The 2008 specification book represents a significant amount of review and work. UDOT staff did extensive reviews of all specifications. What changed. Why? How do the changes impact projects? This session addresses changes to Material specifications.

Time Required: 90 minutes

53. Bonded Wearing Course, Full-Depth Recycling, & Cold-In-Place Recycling

Track: Materials

Presenters: SEM Materials – Wayne Felix and/or Stephane Charmot

Synopsis: An overview of these technologies, recent developments and applications in Utah.

Time Required: 50 minutes

54. Cement Sustainability

Track: Materials

Presenters: Todd Laker, Holcim Cement

Synopsis: As the construction industry is becoming more and more "Green" it is important to understand how cement, a major component of concrete, can also be environmentally friendly. The Cement industry has sustainable initiatives that are greatly affected by specifications, however blended cements are gaining acceptance. These products help cut CO2 emissions, lower energy consumption and are engineered to perform equal to original Portland cements. This presentation will explore sustainable options and solutions in the cement industry.

Time Required: 50 minutes

55. Pervious Concrete

Track: Materials

Presenters: Bill Jex and Ben Blankenship, Ash Grove Cement Company, Jerry Hall, PE, Geneva Rock, Spencer Guthrie, PhD, BYU

Synopsis: This is a presentation that introduces pervious concrete. Discusses how pervious concrete can be used practically in our everyday environment. The environmental benefits of pervious concrete will be covered. With everyone talking about building "green," pervious concrete is a hot topic to discuss. As well as environmental benefits, there are cost benefits associated with the use of pervious concrete. Presents how to design a pervious concrete mix as well as the pertinent information about placing and curing pervious concrete. Spencer Guthrie and some graduate students at BYU are conducting a durability study at this time using local materials that will provide information to support the large amount of data that is already out there showing that pervious concrete is a durable product in freeze thaw environments. We could also discuss the potential for pervious projects in the Salt Lake City area.

Time Required: 50 minutes

56. Concrete Test Fest

Track: Materials

Presenters: Ben Blankenship, Ash Grove Cement Company

Synopsis: We have now conducted 4 test fests. Test Fest is an event where concrete field technicians from various organizations are invited to participate in concrete testing on one uniform batch of concrete. The goal of the Test Fest is to have technicians representing all phases of the industry including Ready Mix, Pre-cast, State and Local Government, contract laboratories, etc. Data from the testing is gathered in a purely random fashion and presented in such a way that variation in the testing can be analyzed. Data from the four Test Fests has shown a large amount of variation in all of the standard field concrete tests: pressure air, slump, unit weight, temperature, and strength. We hope that this data can be used to help us as an industry to improve upon concrete testing procedures in the field and in the lab. I would like to discuss trends in the in the Test Fests and how they compare with other similar programs going on around the country.

Time Required: 50 minutes

57. Concrete Overlay

Track: Materials

Presenters: Ron Youngman, PE, CO/WY ACPA, Mitzi McIntyre, UT Chapter, ACPA

Synopsis: Concrete overlays can serve as cost-effective maintenance and rehabilitation solutions for almost any combination of existing pavement type and condition, desired service life, and anticipated traffic loading. Inch for inch, concrete overlays are one of the most cost-effective, recyclable pavement alternatives.

Time Required: 90 minutes

58. Project Level Materials Documentation for Resident Engineers / Project Managers (recommended for Consultants)

Track: Materials

Presenters: Tim Biel, UDOT Engineer for Materials, Paul Anderson, PEC

Synopsis: Understanding materials, protocol, decision-making, and how to interpret specifications.

Time Required: 90 minutes

59. How to use SUE effectively on projects

Track: Design

Presenters: Elisha Ritchie & Vince Reger

Synopsis: What can SUE do for your project and how can it save time and money.

Time required: 50 minutes

60. Proposed update to design process

Track: Design

Presenters: Fred Doehring

Synopsis: Two brand new networks have been added to the ePM system! The New Design Network replaces the venerable 08-1 design process. Also a Design Build network will be introduced.

Time required: 50 minutes

61. 3500 South Bangerter CFI Lessons Learned & General Operation

Track: Design

Presenters: Craig Wagner, Lisa Wilson (Region Two Project Manager), David Thompson (Thompson Transportation), and Oanh Le (Region Two Traffic Signals Engineer)

Synopsis: UDOT & Thompson Transportation will present the challenges during the design, signal construction, and initial operations of the 3500 South Continuous Flow Intersection. This project was completed in September 2007 and took 7 months to build. This is the first such intersection in Utah amongst the hand full in the country. This session will also focus on the general operation of this unique and innovative intersection.

Time required: 50 minutes

62. Cost Estimating

Track: Design

Presenters: Jason Henrie, Robert Miles and Various UDOT Personnel

Synopsis: What tools are out there and how do you use them to come up with a good estimate?

Time required: 50 minutes

63. Intersection Design

Track: Design

Presenters: Lisa Baird, Ken Talbot, Jessica Rice, and Brandon Cloward.

Synopsis: Everything you wanted to know about designing an intersection. This session will talk about cross slopes at an intersection, layout of an intersection, tapers and taper rates at intersections, Pedestrian Ramps, and more.

Time required: 90 minutes

64. Digital Signatures

Track: Design

Presenters: Bob Peterson

Synopsis: This course will help consultants to become familiarized with the use of digital signatures on their Design Projects. This courses intended audience is Consultants who take part in the design process.

Time required: 50 minutes

65. Cadd Tips and Tricks

Track: Design

Presenters: Jim Buckley and Renee Ye

Synopsis: This course will have tool tips for Microstation and will have an overview of the new macro toolbox that has been created to help increase productivity by helping speed up repetitive tasks within Microstation. This courses intended audience is primarily for those who use Microstation.

Time required: 50 minutes

66. Automated Machine Control (Survey)

Track: Design

Presenters: Derek Peterson

Synopsis: The will be a general overview of Automated Machine Control. This courses intended audience is Designers, Consultants, Construction Personnel and others that may be interested in Automated Machine Control.

Time required: 50 minutes

67. Project Wise

Track: Design

Presenters: Bob Peterson

Synopsis: This session will talk about the current status of the ProjectWise implementation and what future plans the department has for document management. ProjectWise is a document management system that was developed by Bentley Systems, Inc.

Time required: 50 minutes

68. Visualization

Track: Design

Presenters: Paul Wheeler

Synopsis: New Visualization Process-This course will describe the new process for having visualization work performed on projects within the Department. This courses intended audience is Project Managers, Designers, and others that may want visualization work performed within the Department.

Time required: 50 minutes

69. Plan of Action for Scour Critical Bridges in Utah

Track: Structures/Research/Hydraulics/RofW

Presenters: Remmet DeGroot and Denis Stuhff

Synopsis: Plan of action for all scour critical bridges on State Roads. FHWA requires these plans to be in place. A statewide requirement and an informative session on this topic, make it applicable for a wide audience. The presentation includes a description of common scour problems, the procedures and methodologies used in analyzing each fridge, and proposed countermeasures, all illustrated with relevant photo's and maps from representative examples.

Time required: 90 minutes

70. Advanced Bridge Construction Techniques (1/2 day)

Track: Structures/Research/Hydraulics/RofW

Presenters: Richard Miller, Lisa Wilson, Danny Page, Dave Eixenberger

Synopsis: There will be a Project Planner, Project Manager, Project Designers, Resident Engineer, Contractors, and SPMT (Self-Propelled Module Transporter) Provider available to present what they have learned from a very new and visible project. The 4500 South over I-215 eastside bridge replacement will be using SPMT construction method. It is the first time for UDOT to use this method. This project has also been selected as the showcase project by the FHWA Office of Bridge Technology in Washington D.C. The showcase event is important to the upper management and will be held on October 28, 2007. Based on what UDOT has learned, we will share our first-hand experiences with other engineers at the workshop.

Time required: ½ Day workshop

71. Biofuels Project

Track: Structures/Research/Hydraulics/RofW

Presenters: Abdul Wakil, Dr. Ralph Whitesides, and Dallas Hanks from USU

Synopsis: The Utah Department of Transportation (UDOT) has partnered with Utah State University (USU) for this green experiment to research the possibility of growing biodiesel producing, drought-tolerant crops such as canola, safflower and perennial flax adjacent to the state highways.

If this research is successful, it's possible that in the future UDOT could harvest enough seeds to make homegrown biodiesel and run its entire vehicle fleet. If everything works out, we could produce 500 gallons/mile of biodiesel per year. Other benefits to the department would include: savings in mowing/pest control costs and aesthetic improvement of right-of-way with red, blue, yellow flowers.

Time required: 50 minutes

72. Research Funding & Programming

Track: Structures Research Hydraulics RofW

Presenters: Various Research Managers

Synopsis: Presentation by the Research team on "Research Funding Opportunities/Sources".

This session will cover various funding sources from the following:

*Pooled-Fund- Lead State Program

*Pooled-Fund- Participating State Program

*UTRAC Project Funding Status

*University Transportation Centers Program

*Highways for Life Program

*NCHRP Program

*IDEA Program

*Technology Transfer Funding from FHWA

*SBIR Funding

*And more

Time required: 50 minutes

73. High School Students: A UDOT-Sponsored Informational Session for High School Student Attendees.

Track: Leadership/Organizational

Presenters: Carla Freebairn

Synopsis: A UDOT-sponsored informational session for high School Student Attendees

Time required: 50 minutes

74. Possible Question and Answer Period

