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Partners on Campus: Open Access Transportation Research at Purdue University

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PARTNERS ON CAMPUS
Open Access Transportation Research at Purdue University

David Scherer
Scholarly Repository Specialist
Purdue University Libraries

Bepress Webinar, May 02, 2013
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STANDARDIZATION
INCONSISTENT METADATA AND WORKFLOWS BROUGHT UNDER CONTROL

SENSIBLE METADATA

Abstract

There are approximately 4,000 instances per year where state property, located along Indiana Department of Transportation (INDOT) maintained right-of-way, needs to be replaced or repaired due to motor vehicle crashes. INDOT incurs significant financial losses to repair state property damage that is not recovered from the responsible driver because responsible parties cannot be identified and invoices do not reflect the fully-loaded cost of the repair. This study’s objective is to identify enhanced management procedures to decrease the financial burden of the state by identifying best practices supporting the following two goals: 1) increasing the amount of monies collected; 2) more effectively associating vehicle crash reports with crash damaged infrastructure. In decreasing the process time, and also ensuring that invoices reflect the fully-loaded repair costs. As part of the study, INDOT’s recovery process was compared to peer states, a prototype process to document crash damaged infrastructure was field tested, enhanced crash report documents were developed, and crash report queries were evaluated.

Based on the research, this report recommends the recovery process should begin with the placement of a tag by the investigating law enforcement official at the scene of the crash. This tag would allow maintenance crews to directly link infrastructure damage with a specific vehicle crash report. This report recommends that a notification letter be sent to the driver and/or insurance company explaining that of the damage incurred. Past recovery efforts show that these companies are expected to increase the likelihood of successful report completion. This report also recommends that an administration fee be included in the repair costs to facilitate the new procedures. Performance measures have been proposed to evaluate the effectiveness of these procedures.

Keywords

crash damaged infrastructure, cost recovery, crash damage tagging, paradigm repair, crash queries, SDR-341

PUBLISHING WORKFLOWS

PI Submits Draft Report

SAC Review of Report

PI Revises Draft Report

PA/PI & SAC Confer

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• DOIs
• Persistent URL
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Purdue News

October 23, 2012

Purdue e-Pubs reaches milestone with 3 million downloads from across globe

WIEFT LAFAYETTE, Ind. - When Purdue civil engineering emeritus professor Sidney Diamond published his work on “Methods of Soil Stabilization for Erosion Control” in 1875, he expected it to primarily be read in Indiana. After all, assisting the state to improve its transportation infrastructure was and still is the primary goal of the Joint Transportation Research Program, which published Diamond’s work.

Today, however, the readers of report JTPR-75-02 are as likely to be in India, Brazil and China as in Monticello or Frankfort, Ind. Thanks to Purdue e-Pubs, the university’s online publishing system administered by Purdue Libraries, Diamond’s research is helping practitioners worldwide to keep roads and safety reinforce dirt roads made unstable by heavy rainfall.

Purdue Libraries announced Tuesday (Oct. 23) that “Methods of Soil Stabilization” was the 3 millionth download from Purdue e-Pubs, the open-access repository system that now contains more than 25,000 articles, reports, conference papers and theses written by university faculty, staff and students. Since July, the system has generated more than 600,000 new downloads, indicating an accelerating pace of use. Visitors came from 224 Indiana communities, every state in the nation, and more than 214 countries. Publishing new scholarship on Purdue e-Pubs is entirely free of charge for Purdue faculty.
BUILDING “BUY IN” CONTINUING ENGAGEMENT ACTIVITIES
Purdue Libraries e-Pubs is on the fast lane of the information highway for delivering our discoveries. Each year, more than 2,200 transportation professionals converge on the Purdue campus to mastermind ways to improve pavement, traffic flow and other topics key to the state’s transportation infrastructure. The Road School — 124 sessions hosted by the Joint Transportation Research Project (JTRP) — results in reams of valuable information that is relevant not only to Indiana but to global transportation.

With the mission of improving the planning, design, construction, operation, management and economic efficiency of Indiana’s transportation infrastructure, I believe the center has a core responsibility of sharing its discoveries with the world.

For years, proceedings from the Road School were stacked in boxes, moved by U-Haul to the library and scanned or distributed by email. In 2011, though, presenters were for the first time given the option of archiving their presentations in the Purdue e-Pubs, the Libraries’ Digital Repository. This was the result of an initiative begun in 2010 with Purdue Libraries to digitize the center’s documents and extend the reach of a vast body of publications that includes more than 1,500 technical reports a year. The Libraries’ Dave Scherer oversees systems management for us and Kelley Kimm works with authors to get content into the right form for digitizing.

We are also working closely with Purdue University Press to make widely distribute publications, such as a report containing information on traffic density on the state’s major roads that holds value not only for technical staff but a broader group of stakeholders. The effect of making documents available online has been noticeable. A 1972 report that may have sat in the stacks ignored for decades has been downloaded 463 times. Overall, we’ve seen a rise in downloads from 60,724 in 2010 to more than 100,000 in 2011.

JTRP’s work with Libraries is a national model of the way in which academic centers can and should catalog and archive proceedings, reports, papers and other publications. Research that sits on the shelf has no impact. If we don’t do a good job of communicating, then it’s discovery without delivery. Libraries has been helping us fulfill that key mission.

Bullock is the director of JTRP and professor of civil engineering.

JTRP is a collaborative effort between the Indiana Department of Transportation (INDOT) and the state’s higher education institutions and industry. Presentations from the 2011-12 Purdue Road School are available at docs.lib.purdue.edu/roadschool.
JTRP’s “OTHER INFORMATION STUFF”

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Faculty/Researchers

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Professor Emeritus
Civil Engineering
1955 – 1993

URL: http://docs.lib.purdue.edu/jtrp/763/

Sidney Diamond
Professor Emeritus
Civil Engineering
1965 – 2002

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Fred Moavenzadeh
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Civil Engineering
1960 – 2001

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Robert D. Miles
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Civil Engineering
1967 – 1999

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Milton E. Harr
Gerald Leonards
Prof. Gerald Leonards
1946 – 1991

JTRP Director: 1964 – 1968
Joint Transportation Research Program

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I appreciate the benefit of Road School presentations being available electronically through the Purdue e-Pubs site.

I like having Road School presentations available electronically through the Purdue e-Pubs site.
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JTRP/INDOT team collaborating on Mobility Data Planning ow.ly/1Swf8

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Congrats to CEAAA Recipient Mike Byers ow.ly/1SrNI - Photo includes Prof. Jan Olek, Prof. Darcy Bullock with Mike on far right.

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New JTRP Pub: ow.ly/jYkJD Updating, Upgrading, Refining, Calibration and Implementation of Trade-Off Analysis Methodology...

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Prof. Rob Connor hosting INDOT today for High Strength Bolting training at Bowen Lab - Purdue. Hands-on instruction included!
LESSONS LEARNED
STRATEGIES FOR STARTING PARTNERSHIPS & ENGAGEMENT
LESSONS LEARNED

• Identify the needs of your constituents

• Identify why and how your constituents use the repository to convey impact to their stakeholders

• Metrics are Magic

• Institutional Repositories can still have a physical presence
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