

3-30-2015

A Game of Spot the Difference: Librarians, Repository Managers, and Publishers

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A GAME OF SPOT THE DIFFERENCE

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By V. Niasar, S. Hassanizadeh, L. Pyrak-Notte, C. Berentsen
Purdue University, University of Utrecht

Supplementary materials for the paper:
Cheng, J.-T., L. J. Pyrak-Notte, D. D. Nolle, and N. J. Giordano (2004). Linking pressure and saturation through interfacial areas in porous media.

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Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges



Amit H. Varma
Youngmooh Sohn

SPR 5100 • Paper Number: IPRAN/IN/JTRP 2013/03 • DOI: 10.2106/1.2925483.5184

VOLUME 4, FALL 2014

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SOCIETY OF ENGINEERING SCIENCE



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SOCIETY OF ENGINEERING SCIENCE 51ST ANNUAL TECHNICAL MEETING

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The Society of Engineering Science (SES) Technical Meeting is held annually to foster and promote the exchange of ideas and information among the various disciplines of engineering and the basic disciplines, chemistry, mathematics, engineering, and related scientific and engineering fields. The 2014 SES 51st Annual Technical Meeting will be hosted by Purdue University located on the banks of the Wabash River in West Lafayette, Indiana. Purdue is a major engineering research university with many highly ranked engineering programs. Purdue hosts a long history and tradition, as well as a vibrant research community with many outstanding facilities for teaching and research. The 51st Annual Meeting of the Society of Engineering Science was held at Purdue approximately 15 years ago. Since that time, Purdue University is a strong contributor to the field of engineering, including the 51st Annual Technical Meeting of the Society of Engineering Science. The Society of Engineering Science is a leading organization for the field, providing both a historical perspective as well as the opportunity for researchers in cutting edge research in the engineering sciences.

The SES Technical Meeting aims to convene a diverse and interdisciplinary group of leading researchers in all engineering, mathematics and science disciplines. Topics of interest include, but are not limited to: mechanics of structural materials; dynamic behavior of materials; mechanics of thin shells and composite materials; construction and infrastructure materials; energy storage and energy harvesting; geomechanics and geotechnical materials; computational methods in solid and fluid mechanics; materials design; mechanics of biological materials at tissue, cell and molecular levels; materials, modeling, atomic, cell and bacterial motility, and mechanics simulation.

The organizers and editors for this year's conference are:

- * Ashraf Habibullah, Purdue U. & Princeton U. Parviz, Head of Mechanical Engineering, Ashraf Habibullah Professor of Mechanical Engineering, Purdue University, SES Conference Chair
- * Parviz Zaretsky, School of Civil Engineering, Purdue University, SES Conference Co-Chair
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Recovering Full Repair Costs of INDOT Infrastructure Damaged by Motor Vehicle Crashes [Free Download](#)

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Grant D. Farnsworth, *Purdue University* [Follow](#)
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Recommended Citation
Farnsworth, G. D., T. M. Brennan, and D. M. Bullock. *Recovering Full Repair Costs of INDOT Infrastructure Damaged by Motor Vehicle Crashes*. Publication FHWA/IN/JTRP-2011/11. Joint Transportation Research Program, Indiana Department of Transportation and Purdue University, West Lafayette, Indiana, 2011. doi: 10.5703/1288284314624.

DOI
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Report Number
FHWA/IN/JTRP-2011/11

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 can not 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 four goals: 1) increasing the percent of invoices collected, 2) more effectively associating vehicle crash reports with crash damaged infrastructure, 3) decreasing the process time, and 4) ensuring that invoices

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INDIANA MOBILITY REPORTS

2013–2014 Indiana Mobility Report: Summary Version

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Day, C., Remias, S., Li, H., Mekker, M., McNamara, M., Cox, E., Horton, D., & Bullock, D. (2014). 2013–2014 Indiana Mobility Report: Summary Version (Joint Transportation Research Program Indiana Bibliography). West Lafayette, IN: Purdue University. <http://dx.doi.org/10.5703/1288284315507>

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Videos referenced in the Indiana Mobility Report:

Remias, S., Morris, T., Bullock, D. (2014). 2011-2014 Indiana Interstate Congestion Summary. Purdue University Research Repository. [doi: 10.4231/R76D5QXB](https://doi.org/10.4231/R76D5QXB)

Remias, S., Cox, E., Morris, T., Bullock, D. (2014). January 2014 Winter Storm Time-Lapse on I-69 Near Indianapolis. Purdue University Research Repository. [doi: 10.4231/R72N506D](https://doi.org/10.4231/R72N506D)

Lavrenz, S., Morris, T., Bullock, D., Riggs, N. (2014). South Split Reconstruction Time-Lapse Composite. Purdue University Research Repository. [doi: 10.4231/R7XW4GQQ](https://doi.org/10.4231/R7XW4GQQ)

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Connor, R., Lloyd, J., Washeleski, T., Morris, T., Riggs, N. (2014). Virginia Avenue Bridge Hits. Purdue University Research Repository. [doi: 10.4231/R7PC308C](https://doi.org/10.4231/R7PC308C)

Virginia Avenue Bridge Hits

By Robert Connor¹, Jason Lloyd¹, Teresa Washeleski², Teresa Morris¹, Nathan Riggs¹
¹ Purdue University ² Michael Baker, International ³ Indiana Department of Transportation

The Virginia Avenue Bridge over I-65/70 in Indianapolis had been struck by many oversize trucks. In fall 2012, INDOT and Purdue University installed a camera to monitor the strikes.

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Virginia Avenue Bridge Hits



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RESEARCH HIGHLIGHTS

Interaction of Chloride-Based Deicing Salts with Concrete

MARCH 24, 2015

U.S. infrastructure continues to decay at an alarming rate, as exemplified by the low grades consistently awarded by the ASCE Infrastructure Report Card. While there are many contributors to the decay and degradation of our nation's transportation infrastructure, one that cannot be overlooked in many states is the annual winter application of deicing salts. [More »](#)



Footage Featuring Purdue Bridge Monitoring System on Good Morning America

MARCH 20, 2015

On March 6, 2015, Good Morning America aired an investigation on bridge accidents. Footage was used that originated from Purdue University Associate Professor of Lyles School of Civil Engineering Robert Connor and his research with a web-based bridge monitoring interface. His research focused on a short-term monitoring solution for a more effective asset management tool used by bridge owners when inspecting critical onsite locations. [More »](#)



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JTRP Hosts Indiana Leaders for Research Update

NOVEMBER 21, 2014



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The conference, Transforming Institutions: 21st Century Undergraduate STEM Education, will focus on transforming undergraduate STEM education methodology, presented for academic researchers, education administration, and national policymakers. The conference will focus on the institutionalization of research based transformative practices and their implementation into classroom practice.

Conference Themes:

- Institutional supports and barriers for transformation
- Understanding transformation through assessment
- Faculty development for educational innovation
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TRANSFORMING INSTITUTIONS

Undergraduate STEM Education for the 21st Century

Gabriela C. Weaver, Wilella D. Burgess, Amy L. Childress, and Linda Slakey (Eds.)

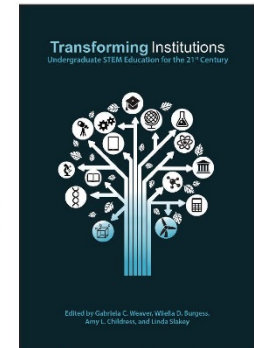
Higher education is coming under increasing scrutiny, both publically and within academia, with respect to its ability to appropriately prepare students for the careers that will make them competitive in the 21st century workplace. At the same time, there is a growing awareness that many global issues will require creative and critical thinking deeply rooted in the technical STEM (science, technology, engineering, and mathematics) disciplines. However, the existing and ingrained structures of higher education, particularly in the STEM fields, are not set up to provide students with extensive skill development in communication, teamwork, and divergent thinking, which is needed for success in the knowledge economy.

In 2011 and again in 2014, an international conference was convened to bring together university leaders, educational policymakers and researchers, and funding agency representatives to discuss the issue of institutional transformation in higher education, particularly in the STEM disciplines. Central to the issue of institutional transformation is the ability to provide new forms of instruction so that students can gain the variety of skills and depth of knowledge they will need. However, radically altering approaches to instruction sets in motion a domino effect that touches on learning space design, instructional technology, faculty training and reward structures, course scheduling, and funding models. In order for one piece to move, there must be coordinated movement in the others, all of which are part of an entrenched and interconnected system.

Transforming Institutions brings together chapters from the scholars and leaders who were part of the 2011 and 2014 conferences. It provides an overview of the context and challenges in STEM higher education, contributed chapters describing programs and research in this area, and a reflection and summary of the lessons from the many authors' viewpoints, leading to suggested next steps in the path toward transformation.

KEY POINTS

- This book is a combination of research on the subject of institutional transformation, and it provides practical examples for administrators and funding agencies of approaches that have been used.
- *Transforming Institutions* brings together the combined insights developed over two international meetings.
- The editors have extensive experience in research, teaching, administration, and national policy for STEM education.



Paperback, 978-1-55753-724-9 - \$39.95 (s)
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GABRIELA C. WEAVER serves as vice provost for faculty development, director of the Center for Teaching and Faculty Development, and professor of chemistry at the University of Massachusetts Amherst.

WILLELLA D. BURGESS serves as managing director for Purdue University's Discovery Learning Research Center.

AMY L. CHILDRESS is the operations manager for Purdue University's Discovery Learning Research Center. Childress currently is a doctoral candidate in the Department of Educational Studies.

LINDA SLAKEY served at the University of Massachusetts Amherst from 1973–2006 in various capacities. At present, she has a consulting practice in Washington, DC.

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