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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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Virginia Avenue Bridge Hits
By Robert Connor, Jason Lloyd, Trent Washeleski, Trent Morris, Buddy Rigg

Purdue University, West Lafayette, Indiana Department of Transportation

The Virginia Avenue Bridge over I-69 in Indianapolis has been struck by many conventional trucks. In fall 2013, INDOT and Purdue University installed a camera to monitor the strikes.

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Purdue e-Pubs Conference Proceeding

Transforming Institutions: 21st Century Undergraduate STEM Education Conference

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
- Learning spaces, technology, and infrastructure

Browse the contents of Transforming Institutions: 21st Century Undergraduate STEM Education Conference.

Purdue University Press Book

Transforming Institutions: Undergraduate STEM Education for the 21st Century

Gabriela C. Weaver, William D. Bushow, Amy C. Childress, and Linda Slezak (Eds.)

Higher education is entering an increasingly complex and challenging arena. The ability to graduate students with the skills and knowledge necessary to compete in the 21st century workforce, particularly in the STEM fields, is not set up to provide students with the applied skill development in communication, teamwork, and problem-solving thinking, which is needed for success in the knowledge economy.

In 2011 and again in 2015, an international conference convened to bring together university leaders, educational policymakers, and researchers to develop a comprehensive set of recommendations for institutional transformation to improve education, particularly in the STEM disciplines. Central to the issue of institutional transformation is the ability to provide new forms of instruction that students can gain the skills and depth of knowledge they will need. However, most institutions are still operating within a system that is not designed to produce the increasingly interconnected and knowledge-driven society.

Transforming Institutions brings together conferences that present the solutions and ideas to transform the STEM education system. It provides an overview of the context and challenges in STEM higher education, contributed to by leading development programs and researchers in this field, and a collection of case studies on the lessons from the many successful programs, leading to the development of models that may be useful in transforming the STEM education system.

KEY POINTS:
- The book is a comprehensive overview of the subject of institutional transformation, with practical examples for administrators and faculty members.
- It provides an understanding of the current trends and issues in STEM higher education.
- The editors have extensive experience in research, teaching, administration, and national policy for STEM education.

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Gabriela C. Weaver is vice provost for faculty development, director of the Center for Teaching and Faculty Development, and professor of chemistry at the University of Massachusetts Amherst.

William D. Bushow serves as director of the Purdue University Discovery Learning Research Center.

Amy C. Childress is the operations manager for Purdue University Discovery Learning Research Center and a doctoral candidate in the Department of Educational Studies.

Linda Slezak served as the University of Massachusetts Amherst's career center from 1973-2015 in various capacities. At present, she is a consultant for professionals in Washington D.C.