Proceedings of the Sixth Annual Indiana STEM Education Conference
“STEM Education Meets a Global Challenge”

January 14, 2021

Contents

Front Material

Contents

Goals and Proceedings Information

Preface and Acknowledgments

Research Posters

Environmental Injustice, a City in Crisis: The Use of Informal Science

Crystal Nettles, Indiana University-Purdue University Indianapolis

Jomo Mutegi, Indiana University-Purdue University Indianapolis

Creating Awareness of the Turkey Industry through STEM-Based Online Curriculum

Elizabeth Simmermeyer, Purdue University

Elizabeth Karcher, Purdue University

GEMS Research Projects

Elizabeth Suazo-Flores, Purdue University

Lili Zhou, Purdue University

Sue Ellen Richardson, Purdue University

Research Briefs

How Does an Integrated STEM Life Sciences Unit Affect Middle School Students' Engagement and Science Content Knowledge?

Zeynep Gonca Akdemir, Purdue University

Muhsin Menekse, Purdue University

Saira Anwar, University of Florida

S. Selcen Guzey, Purdue University

The Impact of Teacher Talk on Student Engagement during an Integrated STEM Unit

Valarie Bogan, Purdue University

Thinking with Algebra: A Project and Perspective

David Feikes, Purdue Northwest University

Bir Kafle, Purdue Northwest University

Natalie McGathey, Prairie State College

William S. Walker, Purdue University

Where to Start and How to Judge? First and Third Graders' Measurement Conceptions

Ana-Maria Haiduc, Purdue University

Laura Bofferding, Purdue University

Mahtob Aqazade, Purdue University

Lizhen Chen, Purdue University

Sezai Kocabas, Purdue University

Harvest of the Month

Abigail E. Heidenreich, Purdue Extension

Collaboration in an Online Course is Comparable to Collaboration in a Face-to-Face Course

Tonya M. Isabell, Purdue University

Nathan Mentzer, Purdue University

Games in Environmental Sustainability Education

Shamila Janakiraman, Purdue University

Use of Free and Open-Source Software Apps Provide Many Benefits for College Students

Jeffrey A. Nowak, Purdue University Fort Wayne

Facilitator Model for Dual Credit

Scott Thorne, Purdue University

Nathan Mentzer, Purdue University

Greg J. Strimel, Purdue University

David Sears, Purdue University