## Innovative Learning Spaces That Promote Undergraduate Research

### INTRODUCTION

**Innovative Learning Spaces That Promote Undergraduate Research**

– Janice DeCosmo

### ASSESSMENT

**Creating a Biology “Studio” to Promote Undergraduate Research**

– Mary Beth Hawkins, Miriam Ferzli, and Lisa Paciulli

### THEORY

**Twenty-First-Century Spaces for Twenty-First-Century Learners: Where We Are, How We Got Here, and What Next**

– Jeanne L. Narum, Kimberley Frederick, and Michael A. Palladino

### PRACTICE

**Reimagining the Library: Designing Spaces to Meet the Needs of Today's Students**

– Kathleen Baril and Kelly Kobiela

**Transforming Learning Spaces through Iterative Design to Support Inquiry-Driven Learning**

– Kimberly K. Eby and Laura A. Lukes

### VIGNETTES

**Building, Designing, and Implementing an Augmented Reality Sandbox Laboratory**

– Bryan Dawson, Chuck Robertson, Steven Lloyd, and Markus Hitz

**A Digital Scholarship Center at Siena College Library**

– Loretta Ebert

**Using Old Space in New Ways to Support Undergraduate Research with Community College Students**

– Thomas B. Higgins, Bernhard Beck-Winchatz, Michael Davis, and Andrew Kruger

**New Spaces at the University of Detroit Mercy That Inspire Undergraduate Research and Innovation**

– Elizabeth S. Roberts-Kirchhoff, Shuvra Das, and Gary A. Koleck

### OTHER FEATURE ARTICLES ON ASSESSMENT

**The Structure of Mentoring in Undergraduate Research: Multi-Mentor Models**

– Evan D. Bradley, Michelle Bata, Heather M. Fitz Gibbon, Caroline J. Ketcham, Brittany A. Nicholson, and Meagen Pollock
Building a Culture of Undergraduate Research: A Case Study
  – Annemarie Nicols-Grinenko, Rachel B. Verni, Jennifer M. Pipitone, Christin P. Bowman, and Vanya Quiñones-Jenab

Predicting Undergraduate Council Funding Decisions Using Linear Discriminant Analysis
  – M. Gordon Byrd and Zhixin Kang

DEPARTMENTS

Undergraduate Research Highlights

Book Review
  The Meaningful Writing Project: Learning, Teaching, and Writing in Higher Education
  – Jeanine Williams