

## UMAC Journal, Vol. 16, No. 3

Liliana Milkova, Yale University Art Gallery

New thematic issue of UMAC Journal: STEM in the Art Museum: Innovative Pedagogies for the 21st-Century University.

Guest Editors: Liliana Milkova and Jodi Kovach

We are pleased to announce the release of STEM in the Art Museum: Innovative Pedagogies for the 21st-Century University, a special thematic, and first guest-edited issue of the online UMAC Journal. This is the first publication of its kind on integrating art-based pedagogies in STEM education at the university level, and includes contributions from scholars in museum education and STEM disciplines at colleges and universities in the United States and the United Kingdom.

Introduction: STEM in the Art Museum

Innovative Pedagogies for the 21st-Century University .

Liliana Milkova and Jodi Kovach

1. Using Art to Foster Observational Skills in an Introductory  
Biology Lab

Jennifer McMahon and Jodi Kovach

2. Cultivating STEM Skill Sets with Art and Artifacts:  
A Teaching Workshop

Danielle Raad and Gina Marie Hurley

3. Death and the Doctor: The Museum as a Tool  
for Understanding the Needs of the Dying

Jim Harris, Ashley Moyse, Gina Hadley, Rachel Lane, Sally Frampton, Ariel Dempsey, Joshua Hordern, Kate Saunders, and Gabriele C. De Luca

4. Teaching Chemistry with Art

Bahram Moasser

5. Teaching Neuroscience in the Art Museum

Sarah C. Petersen and Jodi Kovach

6. The Messiness of Real-World Data: Using a Museum  
Database in a Computer Science Class

Hannah Wirta Kinney and Cynthia Taylor

7. Arts Research Integration and Collaborative Learning

Joey Orr and Daniel Tapia Takaki

8. Teaching Geosciences with Museum Collections:

Curiosity and Connection

Jennifer T. Chohnoky

9. The Power of Thinking with Art: Expanding Ideas of

Time and Space

Meg Urry and Sydney Skelton Simon

10. Interweaving Themes in Physics and Art:

A STEM-Museum Collaboration

Spencer Smith and Ellen M. Alvord

Why STEM Needs the Arts: A Coda

Roksana Filipowska

Please follow the link to access the issue:

[http://umac.icom.museum/wp-content/uploads/2024/10/UMAC\\_2024-16\\_3-FINAL.pdf](http://umac.icom.museum/wp-content/uploads/2024/10/UMAC_2024-16_3-FINAL.pdf)

Reference:

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<<https://arthist.net/archive/42976>>.