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RIT College of Art and Design
Image Permanence Institute
Newsletter : October 2026

New 3D Print Research Project

IPI was awarded a research grant from the **Institute of Museum and Library Services National Leadership Grant for Museums** program to support a three-year research project titled, *Evaluating the Mechanical Stability of 3D Printed Materials to Inform Collections Care Decision Making for Preservation and Access.* Lab-based experiments will assess the mechanical properties of 3D printed materials exposed to changing environmental conditions as they apply to three major areas of use in preservation, namely i) dimensional change of 3D printed materials used for object fills, ii) creep behavior of 3D printed mounts, and iii) damping properties of 3D printed materials in response to dynamic loads. Additionally, digital image correlation (DIC) will be used to demonstrate the relationship(s) between 3D printed materials studied in the laboratory and tangible applications of 3D printed materials used for preservation, storage, and display activities. To ensure meaningful outcomes for the field, we are excited that colleagues from **The Strong National Museum of Play** and **The Cleveland Museum of Art** will help guide the development of case studies to evaluate via their participation on the project advisory board.

eClimateNotebook

New eClimateNotebook Guidelines Feature

In February, IPI launched a new version of **eClimateNotebook** (eCNB) and we are committed to ongoing feature development and enhancements that advance sustainable environmental management in collections spaces. This month we launched eCNB's newest feature, **Guidelines**. For more than a decade cultural heritage institutions have been implementing sustainable approaches to environmental management in collections spaces. Approaches that broaden temperature and relative humidity parameters can maintain or improve the preservation quality of a space, while also reducing the energy required to achieve those conditions.

A series of published guidelines including Temperature and Relative Humidity Specifications for Collections in Buildings or Special Rooms from chapter 24 of the **2023 ASHRAE Handbook - HVAC Applications**, the **Bizot Group's Green Protocol**, and the National Archives and Records Administration's **NARA 1571 Archival Storage Standards** educate and advocate for energy-saving, set-point management. In eCNB's new **Guidelines** feature, users can monitor how their collection spaces are performing compared to the outer limits for temperature and relative humidity conditions recommended in these guidelines and actively reference the recommendations during data analysis, operations, and preservation planning meetings.

Preview a video demonstration of the Guidelines feature.



Discontinuation of PEM2 Recalibration Services

PEM2 recalibration services will be discontinued in calendar year 2027. IPI will continue to accept service requests until December 31, 2026. Once requests received by that date are completed PEM2 services will be ended. We will continue to support PEM2 usage and customers can reach out to the PEM services team at ipitechsupport@rit.edu to request command files.

For **eClimateNotebook** (eCNB) users who have historically used PEM2 loggers to collect environmental data, eCNB will continue to support PEM files. However, we wish to highlight that eCNB is also compatible with a wide range of dataloggers - manual or wireless - that can export data as a .CSV file with columns for date/time, temperature, and relative humidity. Contact us if you have questions about specific .CSV formats.

If you are looking to purchase new loggers, IPI has a partnership with LiCor, maker of HOBO dataloggers, that allows eClimateNotebook subscribers to save 5% off the price of HOBO monitoring products that are eClimateNotebook compatible. Datalogger options include manual or wireless .CSV file exports that can then be uploaded to eClimateNotebook. Visit **the HOBO/eCNB compatible equipment page** for more information. Use promotional code **eClimateNotebook5** at the time of purchase to save. A portion of the proceeds from these sales is returned to IPI to support our mission.



Call for Applications:
Getty Global Art & Sustainability Fellowship

IPI is currently accepting applications for its second Getty Global Art & Sustainability Fellowship. For this Fellowship, we are seeking applications from candidates with an educational background in mechanical engineering, building physics, data science, preservation science, or related field. Applicants must also demonstrate an interest in preservation science and cultural heritage preservation.

Fellowship activities will include reviewing existing literature on the use of various hygrothermal modeling tools and conducting field-based comparisons of at least two different software platforms in collections spaces. Comparison exercises will require both real-world space modeling and some computational analysis, as well as defining which materials-focused parameters are needed to generate and inform accurate real-world and computational models. IPI staff will work with the Fellow to identify materials information needed, how best to define that information for the software, and help secure partnerships with local collections spaces.

The search will remain open until filled. Applications are actively being reviewed, and initial interviews have begun. If you are interested in applying, please email us at ipiwww@rit.edu.

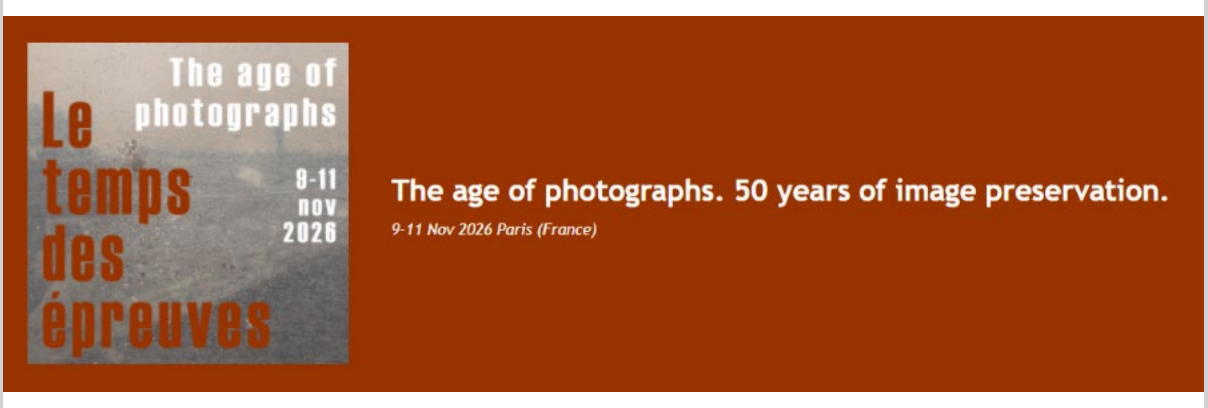
Learn more



Updates to IPI Websites

We are proud of IPI's reputation for creating practical and easily accessible preservation resources and tools. While we actively enhance our web-based software **eClimateNotebook**, we are also committed to maintaining access to legacy IPI web resources based on IPI research. Earlier this month we launched new versions of **Graphics Atlas** and the **Digital Print Preservation Portal** at new web addresses. The content for these sites remains the same, but their designs and infrastructure have been updated, ensuring ongoing access to these important educational resources.

Unfortunately, two of IPI's legacy websites, **Dew Point Calculator** at dpcalc.com and **FlimCare** at filmcare.org had to be disabled recently. We have been creating a new version of each site and will launch those as soon as possible. If you have specific questions, or need advice on where to find similar information in the interim, please contact us at ipitechsupport@rit.edu.



The age of photographs. 50 years of image preservation.

Emma Richardson, IPI Director of Research, will give a keynote talk titled *Physical Challenges, Practical Solutions: Applying New Technologies to Assess the Physical Stability of Vulnerable Collection Materials* as part of "The age of photographs. 50 years of image preservation" conference at **Musée du Quai Branly-Jacques Chirac**, Paris on November 11, 2026.

For more information visit: **Le temps des épreuves. 50 ans de préservation des photographies - Sciencesconf.org**

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