

Dear Faculty Development Grants and Awards Committee,

I recently attended the 2018 Pulse Laser Holography residency in the Physics Department at The Ohio State University. The residency was a collaboration between faculty from the Department of Physics and the Department of Art and led by master holographer Sam Moree and Professor Dr. Harris Kagan of the physics department.

Holography is a three-dimensional imaging technique. We used laser light to record the patterns of light waves reflected from an object onto the emulsion of light sensitive film. When that film is developed in the darkroom, and re-exposed to a spotlight, it re-creates in space all the points of light that originally came from the object. The resulting image, either behind or in front of the holographic film, has all the dimensions of the original object.

Unlike photography, holography can render a subject with complete dimensional fidelity. A hologram creates everything your eyes see -- depth, size, shape, texture, and relative position -- from many points of view.

During this hands-on residency, myself along with four other international artists, were given the opportunity to learn how to create multiple forms of holographic images using different recording techniques. We worked from 9am to 6pm everyday in the laboratory learning about beam splitting, wave interference, exposure, and film developing.

The residency was extremely rigorous and packed with information. This residency included the use of the extremely rare Pulse Laser beam to record a master hologram. The Pulse laser is a high powered laser beam that allows the holographer to make images of unstable subject. For example, I created a self portrait as Florine Stettheimer with a bouquet of flowers. There is only one of these lasers in the United States.

I hope to return to The Ohio State University in the near future to continue my studies on holography. Thank you for your gracious support.

Sincerely,
Allison Wade

Assistant Chair, Photography