

## Optics Colloquium:

# Todd Gustavson

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## Photographic Optics from the George Eastman Museum collection

### Abstract:

The camera, (from the Greek *καμάρα* meaning vaulted chamber) evolved from the camera obscura (Latin for darkened chamber), a Renaissance drawing apparatus used by artists as an aid for correctly rendering perspective. The simple box camera is the ancestor common to all photographic cameras, regardless of size or type, process or manufacturer. And all cameras consist of several sub-systems, the box, shutter, light-recording device, and lens, which, when acting in concert, capture and save images. This talk will concentrate will concentrate on the last item, the lens.

While it can be argued that all these components play an equal role in photography, by far the most complex are the recording media (film digital sensor) and the lens. This talk will concentrate on the latter, chronicling the advances in photographic lenses from the George Eastman museum's collection.

**Date:** Monday, December 7, 2015 • **Time:** 3:00 pm • **Location:** Goergen 101

### Refreshments will be served

Three copies of the speaker's book "Camera: A History of Photography from Daguerrotipe to Digital" will be raffled.  
SPIE student members only.

