

# CAMERA OBSCURA

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## WORKSHOPS

### Half - Day Camera Obscura Workshop

(for grades 4-12)

by Andrzej Maciejewski

#### Description of the Project

During this hands-on activities workshop, students will learn about basic optics laws that govern cameras and about the history and use of the Camera Obscura. They will build their own little Pinhole Cameras and will visit Andrzej's walk-in Mobile Camera Obscura.

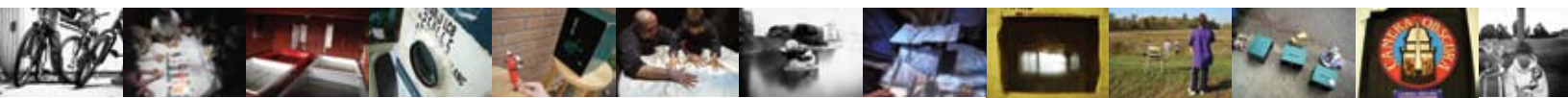


Groups of up to 30 students may participate in this workshop.  
Two workshops must be booked to fill one full day.

The price is \$500 for the full day (including all materials).

To book the workshop or to find out about dates available, contact:

[info@cameraobscuraworks.com](mailto:info@cameraobscuraworks.com)



## Introduction

During the introduction I will:

- explain how the very first camera was invented
- conduct optical experiments explaining how the camera and human eye work
- discuss the history of Camera Obscura and photography beginnings as well as purposes that the Camera Obscura has served over the centuries



## Building Pinhole Cameras

*For this part of the workshop 11" x 17" sheet of black construction paper and small pages of tracing paper must be prepared for each student. We will also need scissors and masking tape.*

During this part of the workshops students will:

- build his/her own simple tube Camera Obscura, using the black paper for a tube and tracing paper for a screen
- learn how to understand the light properties and use this knowledge to achieve the best possible quality of the image
- observe different objects through the cameras



## Camera Obscura Presentation

*During the presentation the class will be divided into five smaller groups. One group will go inside the Camera while the remaining four will perform outside for the amusement of those inside.*

While inside the Camera students will:

- locate and recognize their classmates
- observe how the image changes when the mirror is swung or the lens is rotated
- discover how the image can be focused
- experiment with placing coloured paper on the screen to change the image hue



*“What better way to understand the basics of photography than to get right inside a camera? This course will provide that unique opportunity! Lots of fun and hands-on experiments!”*

Haliburton School of the Arts

[info@cameraobscuraworks.com](mailto:info@cameraobscuraworks.com)