



# RON SMITH & ASSOCIATES, INC.



## FINDING LATENT EVIDENCE WITH CHEMISTRY AND LIGHT

### Course Description

The purpose of this four day seminar is to enable the student:

- To identify the best technique, or series of techniques, for developing the maximum evidence
- To understand and exploit fluorescence as a powerful detection strategy, using a range of Forensic Light Sources
- To record impression evidence faithfully and accurately
- To prepare and use the chemical reagents safely in a laboratory environment.
- The student will learn about lasers and light sources as key forensic technology, as well as the principles behind luminescence detection of evidence.
- Techniques targeting tapes (adhesive side), blood prints on porous and nonporous surfaces will be featured.
- The student will learn how to use multiple techniques in the correct sequence on many surfaces for maximum results.
- The student will learn conventional, atypical and digital photographic techniques for extracting the clearest and most useful images.
- This course will feature hands-on sessions in exhibit processing and photography, as well as an examination and certificate of completion.

### Target Audience

Crime scene technicians, detectives, laboratory analysts and others who process evidence in a laboratory environment who want to understand and exploit fluorescence as a powerful detection strategy using chemical reagents and a range of Forensic Light Sources

### Should be Able to Perform

The student will learn:


- To understand and exploit fluorescence as a powerful detection strategy using a range of Forensic Light Sources
- To record impression evidence faithfully and accurately
- To prepare and use chemical reagents safely in a laboratory environment
- To use multiple techniques in the correct sequence on many surfaces for maximum results
- Conventional, atypical and digital photographic techniques for extracting the clearest and most useful images

### Must Bring to Class


Students must bring lab coats or other protective garment and wear old clothing on lab days.

No open-toed shoes can be worn in the laboratory

All students are strongly encouraged to bring a digital camera (digital SLR preferred) with a macro lens and tripod to enhance the learning experience during this class – it is not required for attendance but is strongly encouraged. All types of standard digital media should be able to be used by the instructor to critique the work



**Class Instructor:**  
**Brian Dalrymple,**  
**CLPE**



### Course Logistics

**When:**

April 30 - May 3, 2024

**Class Times:**

08:00 AM - 05:00 PM

**Where:**

Minneapolis Public Service Building  
505 4th Avenue South  
10th Floor Training Room  
Minneapolis, MN 55415

**Tuition:**

\$650.00

***This course approved for  
I.A.I. Certification & Re-certification***

### Local Contact

Randy Hanson

Crime Lab Manager

Minneapolis Police Department

612.673.3453

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# Daily Schedule

	Day 1	Day 2	Day 3	Day 4
Hour 1 & 2	OPENING REMARKS - Continuity - Documenting & Marking Evidence - Exhibit Evaluation - Sequential Processing  THEORY OF LIGHT & FLUORESCENCE (CLASSROOM)	HEALTH & SAFETY (CLASSROOM) LAB ROTATION (ALL DAY)	CRIME SCENE DNA (CLASSROOM) LAB ROTATION (ALL DAY)	IMPRESSION PHOTOGRAPHY (CLASSROOM)
Hour 3 & 4	CHEMICAL TREATMENTS (CLASSROOM)	LAB ROTATION	LAB ROTATION	PHOTOGRAPHIC PRACTICALS (LOCATION)
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
Hour 5 & 6	COMPARISON OF LIGHT SOURCES (CLASSROOM)	LAB ROTATION	LAB ROTATION	PHOTOGRAPHIC PRACTICALS (CONTINUED)
Hour 7 & 8	MOCK CRIMES SCENES (LOCATION)  DIGITAL IMAGING (CLASSROOM) (CLASS SPLIT)	LAB ROTATION	LAB ROTATION	REVIEW OF PRACTICAL ASSIGNMENTS  EXAM  PRESENTATION OF CERTIFICATES

## Recommended Reading

*Lee and Gaensslen's Advances in Fingerprint Technology, Third Edition, CRC Press, 2013, Edited by Robert Ramotowski*  
*Crime and Measurement: Methods in Forensic Investigation, Nafte, M., Dalrymple, B., Carolina Academic Press, 2011*

## Helpful Lodging Information

*Although we cannot endorse any particular hotel property, we have confirmed that the following lodging is within a reasonable commuting distance to the training site.*

Hyatt Place Minneapolis/Downtown  
 425 South 7th Street  
 Minneapolis, MN 55415  
 612-333-3111  
 Please Click Here For Reservations

Comments on Training Site:  
 Parking will have to be on a ramp.