

TracePro® Spring 2019 Training Courses

TracePro is a flexible and powerful ray tracing program based on ACIS®, the industry-standard solid modeling kernel. It predicts intensity patterns in candelas and calculates illuminance on any surface. TracePro can model any surface type, and any surface can be made a source of light. TracePro features an easy and fun to use, state-of-the-art graphical Windows interface and strong data exchange capabilities with CAD and lens design software.

Introduction to TracePro April 23 - 24, 2019

Optimization with TracePro April 25 - 26, 2019

Please note that the Introduction to TracePro course should be considered a pre-requisite for the third and fourth days of training.

Day 1	Introduction to TracePro <ul style="list-style-type: none"> • Introduction to TracePro • Ray tracing Overview and Principles • Importing geometry and creating geometry in TracePro • Applying properties • Defining sources • Ray tracing • Analyzing the results
Day 2	Introduction to TracePro <ul style="list-style-type: none"> • Review of Day 1 and Questions • Creating custom properties • The Scheme macro language and macro recorder • Importance Sampling • Raytrace options and settings • Additional analysis tools including ray tables and path sorting • TracePro utilities

Day 3	Optimization with TracePro <ul style="list-style-type: none"> • Principles of optimization • Overview of the 2D and 3D optimizers in TracePro • Creating geometry in the optimizers • Defining variables • Defining optimization goals and targets • Optimization examples including lens, reflector, and light guide example
Day 4	Optimization with TracePro <ul style="list-style-type: none"> • Using the Scheme macro language in the TracePro optimizers • Tolerancing and sensitivity analysis • Optimizing the position and rotation of CAD imported objects in TracePro • Selecting the best surface and material properties using the optimizer • Additional examples

We strongly recommend students take, or have taken in the past, the Introduction two-day course before moving on to the more advanced class. Please contact us if you have any questions on these courses.

A student taking all four days of training will leave with extensive knowledge of TracePro and its features and capabilities, and be ready to use that knowledge on a daily basis.

Introduction to TracePro April 23 - 24, 2019

Days 1 and 2 comprise our **Introduction to TracePro** training. This course is an excellent option for users who have little or no experience with TracePro, as well as long-time users. The feedback we receive from this training is that everyone learns something new. We will cover all aspects of TracePro during these two days. In the first day of this two-day course we will develop a TracePro model from beginning to end, starting with importing, defining, and modifying the geometry, then applying properties, defining sources, running the ray-trace, and analyzing the results. Day two will focus on more advanced features in TracePro like custom property creation, the macro language, importance sampling, advanced ray-trace options, and the TracePro utilities.

Pre-registration with payment must be made at least 3 weeks before the start of the course. The fee is refundable up to that point (\$600 fee is charged for later cancellations).

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Optimization with TracePro

April 23 - 24, 2019

Days 3 and 4 comprise our course on **Optimization in TracePro**. The first day of this intensive hands-on course will cover the theory behind optimization and then provide a full overview of the 3D Interactive Optimizer available in TracePro. All aspects of the optimization process, including creating the geometry, applying properties, setting up sources, and defining optimization targets will be addressed. After that we will work through several optimization examples featuring lenses, reflectors, and light guides. **Day 4** will cover more advanced topics in the TracePro optimizer including using the Scheme macro language to expand the capabilities of the optimizer. Additional hands-on examples will be presented including tolerancing with the optimizer and using the optimizer to select the best surface and/or material properties to meet a user-defined goal.

Classes will be held at the Lambda Research Corporation headquarters from 9:00 am to 4:30 pm each day. Directions will be provided on request.

Lodging is available at nearby hotels. Attendees are responsible for their own room arrangements and should make reservations directly with the hotel.

Courtyard Boston – 3.3 miles

102 Constitution Ave, Littleton, MA 01460 – Tel 978-440-5040

<http://www.marriott.com/hotels/travel/boslt-courtyard-boston-littleton/>

Westford Regency Inn – 7.5 miles

219 Littleton Rd, Westford, MA 01886 – Tel 978-692-8200

<http://www.westfordregency.com>

Hampton Inn & Suites – 7.7 miles

9 Nixon Rd, Westford, MA 01886 - Tel 978-392-1555

<http://hamptoninn3.hilton.com/en/hotels/massachusetts/hampton-inn-and-suiteswestford-chelmsford-BOSWFHX/index.html>

Hilton Garden Inn Devens Common - 8.8 miles

59 Andrews Parkway, Devens, MA 01434 - Tel 978-772-0600

<http://hiltongardeninn3.hilton.com/en/hotels/massachusetts/hilton-garden-inn-devens-common-ORHDCGI/index.html>

Tuition includes all materials, individual use of computer, and lunch. Please notify your sales representative if you have any food allergies or require a vegan or vegetarian lunch. We will do our best to accommodate your request. ***Tuition must be paid in full prior to attendance.***

ATTENDANCE IS LIMITED. PRE-REGISTRATION WITH PAYMENT MUST BE MADE AT LEAST TWO WEEKS BEFORE THE START OF THE COURSE. THE FEE IS REFUNDABLE UP TO THAT POINT (A FEE IS CHARGED FOR LATER CANCELLATIONS).

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Littleton, MA 01460-1434

Tel. 978-486-0766
Fax 978-486-0755
Email sales@lambdare.com

Registration Form

Company _____ Name _____

Address _____ City _____ State ____ Zip _____

Tel: _____ Fax: _____

E-Mail: _____

- Introduction to TracePro-\$1200 (April 23 - 24, 2019)
 Optimization with TracePro-\$1200 (April 25 - 26, 2019)