

Technology Summit: Anaheim

This hands-on two-day technical seminar explores the innovative fusion of two distinct but complementary technologies, laser engraving and sandcarving. Seminar participants gain insight on how to upsell to glass customers by transitioning from their laser's shallow etch to the smooth-sanded, deep-carve capabilities of a sandcarver. In addition, participants will work with substrates that were traditionally difficult with lasers, such as polished metals and hard ceramic glazes. Instructors Richard Laim of Trotec Laser and Brandon Radovich of IKONICS Imaging, are experts in their respective technologies. While teaching the techniques of merging these technologies, each representative will also give in-depth demonstrations of individual technologies and their uses. Richard and Brandon will empower students with a working knowledge to combine laser with sandcarving in one process, blazering, to enhance offerings and make dreams a reality.

This seminar will focus on many aspects of both technologies. Here are some of the techniques you will learn from each technology:

Sand carving:

- working with photoresist films
- halftone images
- deep-carve techniques and more...
- working with substrates including brick, glass, ceramics, drinkware and more...

Laser Engraving:

- using BlazerOrange Masking material
- working with flat and curved substrates
- Stone Lasering Do's and Don'ts and more...



Technology Summit: Anaheim

Class Schedule: 8:30 am to 4:00 pm

Location: 1630 S Sunkist St, Anaheim, CA 92806

Instructors: Richard Laim, Ian Braddy, Brandon Radovich

Day 1 – Sep. 18th

8:30 a.m. – 9:00 a.m.

- **CoffeeTime** meet and greet with class attendees
- Split into two groups

9:00 a.m. – 11:30 a.m. | Group 1

Sandblasting with washout film

- Artwork explanation with samples (Accu, PFX, Vellum)
- Exposure & washout demonstration with R3 and R5
- Explanation of CrystalBlast Elite 3.0 and Pro 2.0, CleanFlo Technology
 - o Demonstration of blasting and mask removal
- Hands-on blasting on glass and ceramic samples, single and 2-stage

9:00 a.m. – 11:30 a.m. | Group 2

Laser Engraving Basics and Blazer Orange demo

- Laser explanation, how the laser process works
- Basic artwork explanation and how it applies to lasers
- Difference between single stage etch and multi-stage artwork preparation
- Speed and power overview, explaining too low and too high of power results
- Flat vs curved items, what to watch out for and overcome curves
- Tips and tricks for applying Blazer Orange
- Prepping and running flat pieces
- Masking for going to sandblasting- tips, tricks and why the tape matters

11:30 a.m. – 12:30 p.m.

- **Lunch** brought into Trotec Laser

12:30 p.m. – 3:00 p.m. | Group 2

Sandblasting Basics with washout film

- Artwork explanation with samples (Accu, PFX, Vellum)
- Exposure & washout demonstration with R3 and R5
- Explanation of CrystalBlast Elite 3.0 and Pro 2.0, CleanFlo Technology
 - o Demonstration of blasting and mask removal
- Hands-on blasting on glass and ceramic samples, single and 2-stage

12:30 p.m. – 3:00 p.m. | Group 1

Laser Engraving Basics and Blazer Orange demo

- Laser explanation, how the laser process works
- Basic artwork explanation and how it applies to lasers
- Difference between single stage etch and multi-stage artwork preparation
- Speed and power overview, explaining too low and too high of power results
- Flat vs curved items, what to watch out for and overcome curves
- Tips and tricks for applying Blazer Orange
- Prepping and running flat pieces
- Masking for going to sandblasting- tips, tricks, and why the tape matters

3:00 p.m. – 4:00 p.m.

- **Question/Answer**, class can finish up projects

5:30 p.m.

- **Happy Hour, Dinner**, and Networking Opportunities
TBD

Technology Summit: Anaheim

Class Schedule: 8:30 am to 4:00 pm

Location: 1630 S Sunkist St, Anaheim, CA 92806

Instructors: Richard Laim, Ian Braddy, Brandon Radovich

Day 2 – Sep. 19th

8:30 a.m. – 9:00 a.m.

- **Coffee Time** with class attendees
- Split into two groups

9:00 a.m. – 11:30 a.m. | Group 1

Blazer Orange, Rapidmask

- Sandblast blazer orange samples
- Explain Rapidmask process and artwork, demonstrate exposure and blasting
- Hands-on blasting with Rapidmask, halftones (HD), and line-art (HT)

9:00 a.m. – 11:30 a.m. | Group 2

Laser Engraving continued...

- Q&A from Day 1
- Setting up the laser for curved surfaces
- Apply Blazer Orange to curves and getting through compound curves
- Blazering Pint Glasses
- How to crush a rock!
- Stone surface prep, Blazer Application,
- Stone Lasering Do's and Don'ts

11:30 a.m. – 12:30 p.m.

- **Lunch** brought into Trotec Laser

12:30 p.m. – 3:00 p.m. | Group 2

Blazer Orange, Rapidmask

- Sandblast blazer orange samples
- Explain Rapidmask process and artwork, demonstrate exposure and blasting
- Hands-on blasting with Rapidmask, halftones (HD), and line-art (HT)

12:30 p.m. – 3:00 p.m. | Group 1

Laser Engraving continued...

- Q&A from Day 1
- Setting up the laser for curved surfaces
- Apply Blazer Orange to curves and getting through compound curves
- Blazering Pint Glasses
- How to crush a rock!
- Stone surface prep, Blazer Application,
- Stone Lasering Do's and Don'ts

3:00 p.m. – 5:00 p.m.

- **Class packs up** laser and sandblast projects
- Equipment and class supplies gets packed up

6:00 p.m.

- **Dinner/Drinks**
TBD