LucidShape User Group Meeting
&
LucidShape Courses

April 12-16, 2010

We invite you to attend the first LucidShape User Group Meeting held in the Americas. We hope that this will become an annual event. April 15th will involve a series of informative talks by current customers that have successfully used LucidShape for their lighting designs along with workshops conducted by the Brandenburg GmbH engineers on the latest release and other feature topics that should be helpful in your use of LucidShape.

LucidShape is a powerful 3D system for computer aided design and analysis of lighting and optical product function. Its strengths are that it is the fastest and easiest software program to design today's faceted segmented reflectors for lighting applications.

We are offering an intensive, hands-on, Basic course on April 12-14th , where you will have an introduction of lighting simulation using LucidShape; learn about the LucidStudio, interactive development environment; learn how to use LucidShell, the powerful C-like scripting language; and finally learn how to create FunGeo applications. After completing the course, attendees will be ready to use LucidShape on their own.

Additionally we are offering an Advanced course on April 14 & 16th to give the current users more training on how to use LucidShape for advanced applications.

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Classes & Meeting will be held at the:

Holiday Inn Hotel & Suites
37529 Grand River Ave.
Farmington Hills, MI 48335
248-477-7800

Lodging is also available at this hotel. Each attendee is responsible for their overnight room arrangements and should make reservations directly with the hotel. Please note that you are attending the Beacon Concepts/LucidShape Meetings for special rate.

Attendees are responsible for their own laptop for use in the class.

Tuition includes all materials, temporary individual license code for LucidShape for use in the class and for a period following, continental breakfast and lunch. Tuition must be paid in full prior to attendance. Minimum enrollments apply.

To register please send your check or purchase order with the completed registration form to:

Beacon Concepts, LLC — **Tel. 603-490-7513**
PO Box 626 — **Fax 603-893-9392**
Windham, NH 03087 — **bcalt@beaconconcepts.net**

Registration Form

Company__________________________________
Name ____________________________________
Address___________________________________
City_____________________ State___ Zip______
Tel:___________________
Fax:___________________
E-mail:____________________________________

CLASSES

- ☐ LucidShape BASIC Training-$2,000
  (April 12-14, 2010)-User Group Meeting FREE

- ☐ LucidShape ADVANCED Training-$1,400
  (April 14 & 16, 2010)-User Group Meeting FREE

Discounts apply for multiple students at the above classes.

USER GROUP MEETING

- ☐ LucidShape User Group Meeting-$50
  (April 15, 2010)

LucidShape BASIC Training

April 12-14, 2010

Day 1	**SIMULATION I** **Basics of forward ray trace** • The simulation setup • First simple example **Different ray trace methods** • Monte Carlo • Light Mapping • Interactive Ray trace **Basic Material types** • Emitter: lambertian • Actors: [diffuse] specular, refractive • Sensors: lumen, lux, cd/m^2 **Complete Example** • CAD data import, export & assign surface properties • Simulation, analysis, photometric test tables **Ray files** • Theory, Sensor, Light source
Day 2	**FUNctional GEOmetry** **Theory for profile curves & surfaces** • Practice with curve & surface test suites **The 3 major mathematical methods & applications** • The PS(procedural surface) application • The MF(macro focal) application • The PCS(poly curve system) application **Collimator lens** **Compensation of ray deviation; "neutral" surfaces**
Day 3	**SIMULATION II** **Advanced Material types** • Emitters: from LID data , curve, surface • Actors: BSDF • Sensors: ray history, volume sensor **Lit Appearance** • Flow sensor • Luminance camera • Luminance images **Analysis** • Gather light • Reverse sensor light **Spectral simulation** **GENERAL** **Benchmark TC4-45** **LID Editor for beam pattern combination** **Global Settings** **Ray trace spooler** **CAD like operations in LucidShape** **Data Conversion** • **NURBS to Mesh surface**

LucidShape ADVANCED Training

April 14 & 16, 2010

Day 1	**FF reflectors with MF & PS systems** • Low/high beam headlamps, signal lamps • Multi filament sources **Projector Type Headlamps with PCS (Poly Curve Systems)** • Bi-, multi-function headlamps **Lens design on a free form surface** **LED concentrator reflector & lens with PCS**
Day 2	**Multi module with design features** • LED headlamps, tail lamps **LED Collimator** • In-, out-coupling • Assymmetric pattern **Backlighting** • Light pipes with prism bands • Curtain light with print masks **Create lit appearance picture**

LucidShape User Group Meeting

April 15, 2010

AM	**Welcome Address** **Customer Presentations-TBA** **Coffee Break** **Customer Presentations-TBA** **Buffet Luncheon**
PM	**New Release Presentations-Brandenburg-GmbH** **Coffee Break** **Feature Modeling Presentations** **LucidDrive Presentation**

Pre-registration with payment must be made at least 2 weeks before the start of the course. The fee is refundable up to that point.