



:: Generative Parametric Point-Clouds :: Drive your CAD with Excel-based Matrix Modeler ::

ParaCloud Professional Workshop :: ParaCloud + Rhino 4.0

Workshop Program

Day 01 :: Behavior Modeling with ParaCloud

09:00 – 10:00 Software Registration and Installation

10:00 – 12:00 Behavior Modeling Introduction

- Defining the Point-Cloud Order
- Generating a Parametric Point-Cloud
- Editing the Generative DNA
- Coding Behavior Patterns
- Plotting Results to Rhino

12:30 – 14:00 Advanced Behavior Control

- Behavior Modeling with Graphic Rules
- Deformation DNA
- Rows Data and Overrides

15:00 – 16:30 Dual Point-Clouds System

- Generating Ribs using offset methods
- Histogram Control
- Swap Clouds/Swap UV
- Unfolding Ribs for Laser Cutting

17:00 – 18:00 Capturing Data from Rhino

- Contouring method
- Setting out projections
- Wireframe extractions



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Day 02 :: ParaCloud Components Generations

09:00 – 10:30 Cellular Components

- Defining components in Rhino
- Component Population Matrix
- Population Patterns
- Population Parameters
- Difference Method
- Center Method
- Refit Corners

10:30 – 12:00 Nodal Notation Components

- The nodal notation syntax
- Composing components
- Parametric relationships
- Capture Component Data from Rhino

12:30 – 14:00 Performative Dimension

- Generating performance based layout
- Scaling Data / Choose statement
- Performative Modeling Concepts

15:00 – 17:00 Modeling Exercise :: Generative Skins

- Design a generative skin for an office tower

17:00 – 18:00 Discussion