

## **2025 Scale Building Seminar: Topics and Agenda**

### **9:00 AM: (G) & (T). Welcome and Intro:**

**(G)** Composite material

Epoxy vs Polyester- basic chemistry

Applications: structural, laminating, finishing

Epoxy – specific applications, additives, tips for use.

Polyester- specific applications,

Reinforcements -fiberglass cloth and matt

Resin thickeners- Cabosil & Microballoons

Mold making basics: Overview of process, steps, (mold release, layup, part separation)

### **10:15: Break**

### **10:30 AM: (T) Composite and Alternate Construction Materials and Methods**

Carbon Fiber, making wing tubes

Alternate wood construction types: methods and uses

Structure Design using Lite-Ply vs. Balsa

### **11:45 AM: Lunch**

### **12:30 PM: (G) DIY Vacuum forming**

Examples

Overview of process-

Making plug- from scratch or reproduction

Ultracal

DIY vacuum former

### **1:30 PM: (T) Design/Build with CAD/Laser**

Plan development from Picture, 3 view, etc.

Scaling plans to desired size

Adjusting plans for wood sizes

CAD or plans to Laser conversion

Laser Parts

### **2:30PM: Open discussion.**