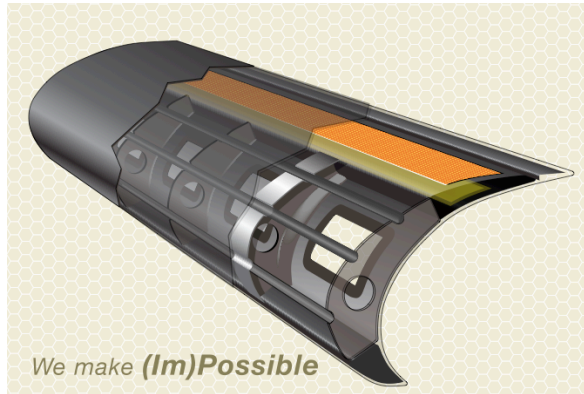


Cellular Core Technology: A New Biomimetic Manufacturing Method for Integrally Stiffened Composite Structures

Speaker: **Mr. Bill Rodman**
InVision Technology, LLC



When: Tuesday – Sept 22nd, 2009
Social Hour: 5:00PM
Dinner: 6:00PM
Speaker: After Dinner

Where: Galliano's Cucina
16435 Military Rd S, Seatac, WA 98188 (near SeaTac Airport)

Free Parking

Directions: From WA-99 just south of Hwy. 518, turn East on S 160th which turns into Military Rd. Galliano's is on the right, just beyond Safeway. **Note:** there is another Galliano's in Tukwila on Interurban Ave so don't go there.

Price: Student: \$8 with RSVP, \$13 at door
Professional: \$20 with RSVP, \$25 at door
Retiree: \$15 with RSVP, \$20 at door

Dinner: Italian Sausage, Chicken Parmigiana or Chicken Scallopine Lasagna, Caesar Salad, Garlic Bread

Reservations: e-mail:
seattlesampe@hotmail.com
Voicemail: 425-522-3830
RSVP as soon as possible!

About the Topic

Cellular Core Technology is a new-to-the-world biomimetic process that creates integrally stiffened complex structures by using a new membranomic mold system with pressurizable, disposable cellular cores. The result is structure that literally has unlimited shape potential. This has been successfully applied to composite structures that include honeycomb, hat section stiffeners, ribs, webs, spars, spar tubes, embedded metallic lugs, backing plates, trailing edges, fuel tanks, and other (im)possible aspects. This technology is being considered for unmanned aeronautical systems (UAS) with decreasing amplitude sine wave spars, as well as a fuselage that has integrated windows, frames, hat sections, and floor beam ties. The talk will cover both technical as well as business issues, with more emphasis on the technical. The business aspects will inform people how to correctly frame a potential design change so economic incentives become obvious.

About the Speaker

Mr. Rodman has a B.S. in Mechanical Engineering, and an Executive MBA in progress at the University of Washington. He has over 23 years of management, design, development, and fabrication experience in composite structures, and has had management and technical development responsibility for numerous significant commercial aircraft structures, including Aviation Partners 737 winglets, and 777 rudders, elevators, nose and main landing gear doors, and flight control surfaces. In addition to six patents pending for inVision's technology, Mr. Rodman has three additional patents relating to composites design and processing. Mr. Rodman has practical experience in almost all composites processing technologies, including hand layup, infusion, ATLM, AFP, and RTM.