## Pointwise® and SU2 Joint Workshop
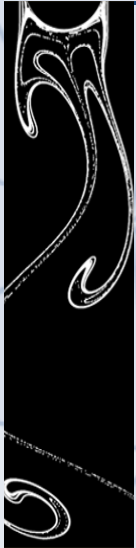
Sept 29th – Sept 30th, 2014
William F. Durand Building, Rm. 450
496 Lomita Mall, Stanford, CA 94305

## First day  -  Basic topics

**10.00 – 10.15: Welcome and introduction to the workshop.**

**10.15 – 10.45: Overview of Pointwise® and installation.**
**10.45 – 11.30: Running Pointwise®.** *Quick start tutorial.*

**11.30 – 11.45: Short break (coffee provided).**

**11.45 – 12.15: Overview of SU2 and installation.**
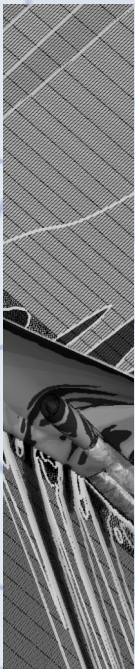**12.15 – 13.00: Running SU2.** *Quick start tutorial.*

**13.00 – 13.30: Break (food provided)**

**13.30 – 15.00: Hybrid meshing using Pointwise®.** *Learn how to combine the best of both structured and unstructured meshing to generate hybrid meshes for complex geometries.*
**15:00 – 16.30: Optimal Shape Design using SU2.** *Learn why SU2 is uniquely suited for performing shape design of complex aerospace systems.*

**16.30 – 17.00: Adjourn first day.**

## Second day  -  Advanced topics

**9.00 – 9.15: Welcome to the second day.**

**9.15 – 11.15: Advanced topics in SU2:**
- **High-level source code overview.** *Learn how to modify your favorite CFD solver.*
- **Adding new capabilities to SU2.** *Learn how to add new options in the configuration file and integrate your research into the SU2 codebase through GitHub® pull requests.*
- **Walk through the compressible Euler solver.** *Do you want to implement your own solver in SU2? This is your opportunity to learn about the solver structure from the original developers of SU2.*
- **Unsteady simulation.** *Learn about the flexible SU2 capabilities for unsteady problems, including simulating unsteady flows on dynamic meshes.*

**11.15 – 11.30: Short break (coffee provided).**

**11.30 – 13.30: Advanced topics in Pointwise®:**
- **Solid modeling and T-Rex (anisotropic tetrahedral meshing).** *Clean dirty CAD and learn to generate high quality boundary layer resolved meshes.*
- **Grid quality and Glyph scripting.** *Learn to inspect grid quality and locate problems prior to export. We'll even show you how to automate your meshing tasks using our Glyph scripting language.*

**13.30 – 14.00: Adjourn second day. Important note: We will host a hands-on session during the afternoon for everyone who wants to learn more about Pointwise® and SU2.**

Thanks for attending, and note that all stated times are Pacific Time (PDT).
**Please RSVP by registering at the SU2 home page (**http://su2.stanford.edu**).**
To find more information about the codes, please visit the following:
   - Pointwise® home page: http://www.pointwise.com
   - SU2 home page: http://su2.stanford.edu

Please, come to the workshop with the software downloaded and installed (Pointwise, Inc. will provide a 2-day license during the event). If you have any problems, we will provide individual support around the room.