

Welcome to the ESP Training

June 2024

Updated for v1.25

The development of ESP was funded by:



- John Dannenhoffer
 - Syracuse University
 - `jfdannen@syr.edu`
- Marshall Galbraith
 - Massachusetts Institute of Technology
 - `galbramc@mit.edu`
- Nitin Bhagat
 - University of Dayton Research Institute
 - `NBhagat1@UDayton.edu`

- Ask clarifying questions when you have them ...
- ...or put them on a Muddy Card
 - muddy cards are your opportunity to ask questions, point out errors, make suggestions, ...
 - muddy cards will be read anonymously and answered at the beginning of the next session
- Facilitators are here to help you, so please ask!!!



Training Outline (1)

- 1 ESP Overview & Getting Started
- 2 Solids Fundamentals (1)
- 3 CSM Language
- 4 Solids Fundamentals (2)
- 5 UDPs, UDFs, and UDCs
- 6 Pyscript Fundamentals
- 7 Sketcher Fundamentals

- 8 Selection & Attribution
- 9 Sensitivities
- 10 Airfoil Optimization with CAPS
- 11 Aerodynamic Analyses with CAPS
- 12 Building Large Models
- 13 Associated Tools
- 14 Structural Analyses and Data Transfers with CAPS