External and Turbomachinery Flow Control Working Group

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External and Turbomachinery
Flow Control Working Group

➢ Broad Flow Control Issues
  ▪ Understanding flow physics
  ▪ Specific control objective(s)
  ▪ Actuation
  ▪ Sensors
  ▪ Integrated active flow control system
  ▪ Development of design tools (CFD, reduced order models, controller design, understanding and utilizing instabilities and other mechanisms, e.g., streamwise vorticity)
Flow control grand challenge

- Jet noise control
- Fluidic aerodynamic-aeroelastic control (flow-structure interaction)
- Three-dimensional turbulent bluff body flow control