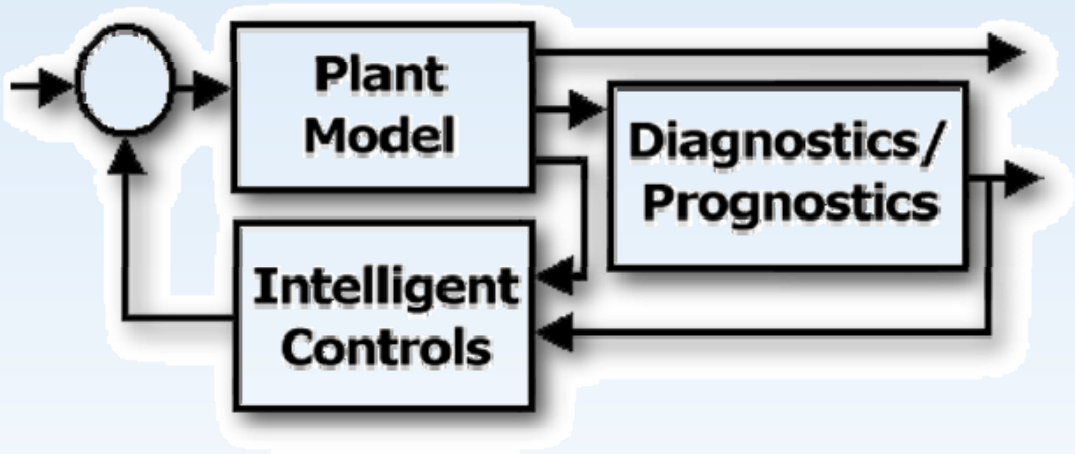
2nd NASA GRC Propulsion Control and Diagnostics Workshop



Cleveland OH
Dec. 8-10, 2009

Dr. Sanjay Garg
Chief, Controls & Dynamics Branch

Glenn Research Center
Controls and Dynamics Branch
at Lewis Field

Welcome

Logistics

Agenda

See your packet for detailed Agenda

Dec. 8

8:00	Welcome and Intros
8:15	Review Agenda and Objectives
8: 30	Overview of NASA Aeronautics PCD Research – Sanjay Garg
9:00	Overview of AFRL PCD Research – Al Behabahani
9:30	BREAK
9:45	Session A: IRAC/Enhanced Engine Control – Jonathan Litt Session B: SUP/Combustion Instability Control – John DeLaat (Ontario/Superior)
12:00	LUNCH (Rockfeller)
1:00	Session A: IRAC/Enhanced Engine Control (contd.) Session B: HYP/Hypersonic Propulsion Control – Tom Stueber
2:30	BREAK
2:45	One-on-One for Hypersonic Propulsion Control – Tom Stueber (Lobby)
2:45	Session A: IVHM/Gas Path Diagnostics – Don Simon Session B: SUP/Supersonic Propulsion Control – George Kopasakis (Ont/Sup)
5:30-7:00	RECEPTION - Cash Bar (Rockfeller)

Agenda (contd.)

Dec. 9

8:00	Industry Perspective on PCD General Electric Aviation, Pratt & Whitney, Rolls-Royce, Honeywell
10:00	BREAK
10:15	Session A: SFW/Distributed Engine Control – Dennis Culley Session B: Software Presentations & Demos – Jonathan Litt (Ontario/Superior)
12:15	LUNCH (Rockfeller)
1:30	Overview and Objective of Break-out Sessions
1:45	Break-out Sessions: Distributed Engine Control, Gas Path Diagnostics, Enhanced Engine Control, Combustion Instability Control, Supersonic Propulsion Control
3:30	BREAK (task leads prepare brief out charts)
3:45	Session Report Outs and Discussion
5:00	ADJOURN regular sessions

(Remember to complete and return the feedback form)

Dec. 10

8:00-11:40 One-on-One with task leads (Cuyahoga/Lorain)

Objectives

- **Disseminate information to the research community about the propulsion control and diagnostics research being done at NASA GRC in support of various projects under the NASA Aeronautics Research Mission programs**
  - ✓ The presentations will address the following: Research Objectives and Relationship to Project Goals; Technical challenges and research approach; Progress to date and future plans; Collaboration opportunities
  - ✓ All the NASA authored publications listed in the presentations are available at the NASA GRC technical report server: http://gltrs.grc.nasa.gov/
- **Get feedback from peers on value of the research and validity of the technical approach**
  - ✓ Addressed through discussions during the technical presentations and the break-out sessions
- **Identify opportunities for potential collaboration and sharing of tools and methods**
  - ✓ Addressed through presentations, break-out sessions, and one-on-one discussions

Your active participation and feedback is critical