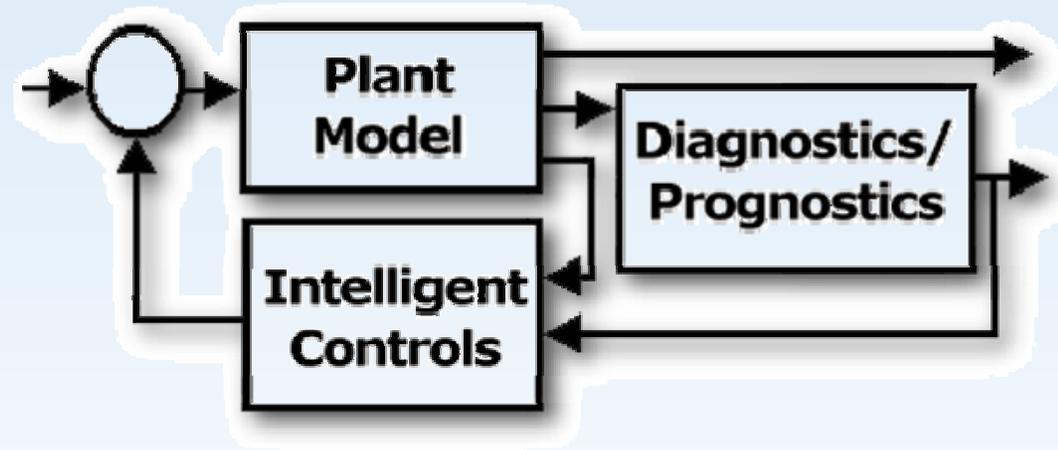


Propulsion Control and Diagnostics Research under NASA Aeronautics Research Mission Programs Agenda & Objectives



Workshop at Ohio Aerospace Institute,
Cleveland OH
Nov. 6-7, 2007

Dr. Sanjay Garg
Chief, Controls & Dynamics Branch

Glenn Research Center

Controls and Dynamics Branch

at Lewis Field



Agenda

Nov. 6

- 8:00 Welcome and Intros
- 8:15 Review Agenda and Objectives
- 8:30 Overview of Controls and Dynamics Branch (RIC) propulsion control and diagnostics efforts – Sanjay Garg
- 8:50 IVHM/Gas Path Health Monitoring – Don Simon, George Kopasakis, Takahisa Kobayashi
- 10:15 BREAK
- 10:30 IRAC/Integrated Propulsion Control and Dynamics Research – Ten-Huei Guo, Jonathan Litt
- 11:15 MAPSS/CMAPSS (Commercial Modular Aero-Propulsion System Simulation) – Jonathan Litt, Jonathan DeCastro
- 12:00 LUNCH
- 1:00 SFW/Distributed Engine Control – Dennis Culley
- 1:45 SFW/Flow control actuation – Dennis Culley
- 2:00 SUP/Active Combustion Control – John DeLaat, Dan Paxson
- 2:45 SUP/Integrated Inlet/Engine Control – George Kopasakis
- 3:10 BREAK
- 3:25 HYP/Modeling and L-IMX inlet control – Thomas Stueber
- 3:50 SRW/Variable Rotor Speed Control – Jonathan Litt
- 4:15 General Discussion – feedback on specific activities
- 4:45 Logistics for Nov. 7 activities and format for break-out sessions
- 5:00-6:30 RECEPTION

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Agenda

Nov. 7

7:30 Meet at OAI for lab tours and board bus to NASA GRC
(Bus leaves at 7:50)

8:00-9:30 Tours of: Simlab, flight simulator, combustion rig, flow control facility

9:30 Return to OAI

(Tours are limited to U.S. citizens only)

9:45 Break-out sessions in specific research areas – attendees comment on objectives and research approach, discuss collaboration, etc.

11:15 BREAK (task leads prepare brief out charts)

11:30 Brief out by task leads from the Break-out sessions

12:15 ADJOURN

(Remember to complete and return the feedback form)

1:00-5:00 Researchers available for half hour one-on-one meetings with attendees on specific technical areas

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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 references 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 on first day and the break out sessions on the second day

- **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

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