Spray G - Program

9:30 Introduction

**Topic 8 – Spray G Nozzle Geometry and Internal Nozzle Flow**
Organizer: Chris Powell (Argonne)

9:40 Nozzle Geometry and Near-Nozzle Experiments
- Daniel Duke (Argonne)

10:20 Internal and Near-Nozzle Flow Modeling
- Ron Grover (GM)

11:00 Break

**Topic 9 – Evaporative Spray G**
Organizer: Daniel Vaquerizo (CMT)

11:30 Macroscopic Spray Visualization and Modeling
- Josh Lacey (Melbourne)

12:10 Spray Mixing Experiments and Modeling
- Lama Itani (IFPEN) & Lyle Pickett (Sandia)

12:50 Discussion Period

13:00 Lunch
Spray G – Discussion Period (ECN3)

What’s next for Spray G?

Continued work with the data already acquired
- Boundary condition verifications ➔ More work to be done
- Qualification of data contributions ➔ More work to be done
- ESRF geometric data analysis ➔ Good effort by Argonne

More measurements
- X-ray PC imaging - moving needle, cavitation, etc ➔ High on the “To Do” list
- Vapor fuel concentration ➔ Good Start by IFPEN
- Combustion? ➔ Topic 10 off to a slow start (table until Sunday afternoon)

More operating conditions
- Throttled early injection ➔ Some, but need more
  - Flash boiling
- Unthrottled early injection ➔ Some, but need more
  - Still relevant and easy for everybody
- Small quantity multiple injection? ➔ Of great interest to industry
- Identify variants around Spray G, G2, G3 ➔ In progress