

Agenda

HMW VSD Technology Workshop

Wednesday (Presentations are 15 min unless indicated otherwise and agenda times can be adjusted as speakers are identified. Ron will take notes and draft the proceedings. Ron & Ridah will send their notes after each session to Tam and Jose to combine, and they will send to Session leaders to be used for Thursday morning summary of session.)

8:30am Welcome and Introduction (Hefner)

Hefner - Introduction to HMW PCS Technology Roadmap and HV-HF Power Devices

Anant - DOE EERE Introduction to EERE/AMO Wide Bandgap Power Electronics Programs

Raju – HV-HF SiC Power Conversion overview

Lipo – Overview of Advanced HMW Motors and Drives

10:00am break

10:30am HMW Converters using HV-HF Semiconductors (Raju)

Ravi – HV-HF for Drives applications

Waqas - HMW VSDs including Issues/gaps in component technologies – including WBG, caps, magnetics, and insulators

Google (Leo identify) – MW Converters for DC Server applications

Krishnamurthy - United Technologies Research Center

Mitsubhi and/or Toshiba – (Waqas will identify)

Alternates:

Subhashish – NCSU

Wang – UTK

Discussion (30 min)

Lunch 12:00noon

1:00pm High Megawatt Motor Application Requirements (Ravi find someone)

GE (Ravi will identify)

AJ Kumar or substitute (locomotive)

Al Ritter (wind)

Sean Huang (Exxon)

John Amy (Navy)

Bob McDowell (ask John Amy if Bob would be appropriate)

Alternate:

Chevron

Discussion (30min)

2:30 Break

3:00 Motor Concepts and Technology (Lipo)

Tom lipo – Discussion of specific advanced motor technology

Yung Kang Chin (ABB)

Longya (Ohio State Univ)

TECO (Tom will follow up)

Peter Wong (Tom will follow up)

4:15 HMW Motor Power Train Integration (Waqas)

Veli-matti (ABB)

Giewont (Vacon)

Kuznetsov (Ratheon)

Shegirian (Electric Boat)?

Bob Krstic (Eaton)?

Discussion (30 min)

5:30 Adjourn

Happy hour and Dinner at Dogfish Head (cars to venue, Hilton Bus back to hotel)

Thursday

8:30am Prioritization/Consensus on Advanced Technology HMW Motor/Drive Technology

Summary of HMW Motor Applications (Wolk)

Summary of HMW Motor Power Train Integration (Lipo)

Summary of HMW HV-HF Device Integration (Ravi)

Discussion (30min)

10:00am break

10:30am Identify Benefits of Advanced Motor/Drive for each application type (Hefner)

Interactive discussion

12:30pm Adjourn