How can science assist the industry in developing fatigue management tools and plans in next 5-10 years?

- Define metrics / surveillance data of fatigue impairment
- Define relevant performance variables for / from simulators
- Redefine locomotive alerter and other systems
  - Impact on training
- Guidelines for equipment and communications / work flow
- Understand team interactions and safety impact
- Assess safety, morbidity and health impacts of work schedules
- Document efficacy of napping and other countermeasures
- Explore issues of social & physiological recovery
- Evaluate utilization, effectiveness and impact of pilot implementations and tools