

# **Science Drivers for FSP Action Items**

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**FSP Planning Meeting**

**15 July 2009**

# Science Driver Team

- **Members**

- Herb Berk                      hberk@mail.utexas.edu
- Raffi Nazikian                rnazikian@pppl.gov
- Pat Diamond                 phd@mamacass.ucsd.edu
- Arnold Kritz                 kritz@lehigh.edu
  - Glenn Bateman            bateman@lehigh.edu

- **Committee will have a number of scheduled conference calls**

- Guest participation will be welcomed
- Minutes of conference calls will be made available
  - Activities of the Science Driver team will be documented

- **Web page and Wiki will be established for science drivers**

- Passwords will be made available to those who would like to participate in prioritizing science drivers

# Science Driver Team Activity

- Review original tasks associated with Science Drivers

## Original FSP Proposal: Science Drivers

Task	Year 1 (percentage)	Year 2 (percentage)
Establish criteria for prioritizing science drivers	10	
Establish prioritization of drivers	10	10
Presentations and fact finding at fusion facilities	30	20
Evaluation of component and framework plans in order to establish the sequencing of science goals	20	20
Develop a plan to continuously monitor progress in addressing science drivers	20	30
Document and disseminate science driver information	10	20
<b>Total</b>	<b>\$200K</b>	<b>\$200K</b>

# Tasks for Science Drivers Team

- Examine ReNeW, Exoscale, FESAC and past FSP workshop reports and generate a list of science drivers
- Establish criteria to prioritize science drivers
  - Determine criteria for both near term and longer term science drivers
- Apply criteria to prioritize science drivers
- Get feedback from the community and get buy-in
  - Presentations and fact finding at fusion facilities and other research groups
  - Interact and iterate with other FSP activities (e.g., framework and components) to get feed back
    - Identify plans to acquire, develop and complete required physics modules
- Evaluation of component and framework plans in order to establish the sequencing of the science drivers
- Science drivers team will need to develop a plan to monitor FPS progress in advancing science
- Document and disseminate science driver planning
- Establish mechanism to review progress in advancing the science tasks

# ***Plans for meeting October deadline***

- **Science driver tasks will be assigned to members of the science driver team and/or volunteers**
  - Science Driver Team will have an initial meeting at PPPL on Thursday afternoon
  - Will have web and wiki set up by end of month
- **Plan and begin process of obtaining community feedback**
  - Establish a method for systemizing the feedback that is being sought
    - Evaluate response with regard to impact on existing fusion program
    - Evaluate response with regard to impact on plans for burning plasma experiments
  - Establish methodology for evaluating feedback
  - Begin interaction with US experimentalists, theorists, modelers, ITPA, and ITER in order to identify and prioritize important science issues
- **Members of the science driver committee will be available to participate in evaluation of FSP components, framework, validation, and management plans, in order to ensure that proposed plans address requirements of science drivers**
- **Strawman prioritization of science drivers**