

# Renew: the final Workshop

## June 8 – June 12, 2009

April 10, 2009

### **What we will have as the Workshop begins:**

1. Theme chapters—tracing from issues and gaps to research needs to outlines of thrusts—in nearly final states.
2. Rough drafts of about 15 thrusts.

### **What we will have at the Workshop's conclusion:**

A Renew report that is complete except for a few details of prose and format. Our report should provide a foundation for planning the next two decades of fusion research, while at the same time displaying the quality of fusion science to a wide audience.

### **What we will do at the workshop:**

1. Review research requirements, to educate and set the stage.
2. Review and revise draft thrusts. The discussion will focus on
  - (i) Integration of thrusts. We will look for linkages and overlaps, trying to maximize the former and minimize the latter. We will take note of different thrusts using the same facilities, of thrusts that might be better combined, and of sub-thrusts that might usefully stand on their own.
  - (ii) Presentation of thrusts. We will seek a uniform format and style—one that emphasizes the scientific depth and importance

of each thrust. We will emphasize clarity in thrust presentation, with awareness of the presumed audience.

3. Find logical and temporal connection among thrusts, beyond their technical linkages. Thus construct from thrusts the *framework* of a program plan.
4. Compose and summary and overview sections of report.

### **Reminder:**

It may be useful here to recall the Renew “Goals and Strategy” document:

Here the words “research thrust” are used to describe an organized, multi-faceted attack on some question, or coherent set of questions, essential to magnetic fusion energy science and technology, using a combination of new and existing program elements. The Report will describe each thrust in sufficient detail to allow an estimate of the required resources. However, to control the size of the Report a typical thrust description should require no more than 6 to 10 pages. An ideal description of a research thrust will be scientifically compelling (“Yes, this clearly needs to be done”) and internally consistent (“Yes, the described methods and tools fit together into a coordinated attack”).