

"Tritium Town Meeting"

March 6–7, 2001

Hilton Garden Inn, Livermore CA

(a satellite of the March 8-9 ARIES Project Meeting)

The ARIES program organizes town meetings to provide a forum for discussions between scientists from enabling technologies and power plant studies⁽¹⁾. Town meetings help guide experimental programs to develop solutions to future problems identified from reactor studies and help design studies develop solutions that are consistent with the understanding of the scientists who are developing those technologies. In short, town meetings are aimed to bridge the gaps, if any, between the enabling technology and advanced design programs.

With this goal in mind, the ARIES project plans to host a town meeting on tritium and fuel cycles. The issues to be discussed include

- D-T fueling
- D-T-He pumping
- Chamber armor (PFC) and blanket tritium inventory, recovery and control
- Fuel processing

Both MFE and IFE tritium and fuel cycle issues will be considered.

Dr. Dai-Kai Sze of ANL and Dr. Mike Gouge of ORNL are the principal meeting organizers.

Other co-organizers include:

Dr. Mike Gouge	Fueling and pumping
Dr. Scott Willms	Fuel processing
Dr. Ken Schultz	IFE issues
Dr. Mark Tillack	Reactor studies
Dr. Dai-Kai Sze	Chamber armor (PFC) and blanket tritium issues
Dr. Dave Petti	Tritium safety

The major objective of the meeting is to bring together experts from the tritium and reactor design communities to share the latest developments in this area and, through discussions, to help focus future analysis and R&D efforts. These Town Meetings are intended to foster a productive and focused exchange of information and a solid block of time will be provided following the presentations to discuss what is missing between today's experiments and information required for future reactor systems. It is most important that we can assess the importance of those missing links which may provide opportunities for new R&D programs.

Tritium and fuel cycle issues are of importance for both near term R&D programs and also for the attractiveness of fusion. For this reason, we will like to invite you, or your colleagues, to attend this town meeting. We believe discussions like these will be beneficial to both the near term experimental programs, as well as direct the proper directions for the reactor studies.

(1) The most recent town meeting enjoyed participation from more than 40 scientists from the US, EC and Japan on the topic of SiC/SiC composites (<http://aries.ucsd.edu/PUBLIC/SiCSiC>).