

## **Summary of NCSX Program Advisory Committee Teleconference of July 13, 2005**

Members attending: D. Anderson, A. Boozer, R. Granetz, C. Hegna, D. Hill, S. Knowlton, T. Luce, J. Lyon, R. Maingi, J. Menard, D. Newman, H. Weitzner, A. Weller.

Others: S. Barish, R. Hawryluk, R. Goldston, M. Zarnstorff, B. Stratton, H. Neilson

The NCSX team made a presentation on NCSX construction progress, NCSX program schedule, developing ECH collaborations, plans for wider community interactions, and other topics. The main comments from the PAC are summarized here.

### NCSX Construction

- \* Importance of fiducial landmarks for metrology was re-emphasized.
- \* Importance of testing of co-wound magnetic sensors was re-emphasized.

### ECH Collaborations

- \* The ECH options presented represent a significant commitment of NCSX resources. They could impact other plans.
- \* The proposed collaboration with Japan is an important opportunity. Japan's expectations from the NCSX side and the cost to the NCSX program need further elaboration. The estimates quoted by the NCSX team were questioned as being too low.
- \* The fault-tolerance of some of the gyrotron systems may be very low. Project needs to investigate.
- \* Plans for ECH need to be laid out more specifically. Their priority relative to other NCSX plans need to be clarified.

### APS Satellite Meeting and other community interactions

- \* In planning and advertising the meeting at APS, the priority should be to encourage non-stellarator people to attend. There should be solid content, meaning material that will engage, rather than merely inform, the audience. (Comment also applies to PAC meetings.)
- \* Scheduling of satellite meeting in relation to stellarator paper sessions needs to be considered carefully. Holding the satellite meeting before the stellarator posters might increase interest in the latter.
- \* The larger stellarator program should be discussed, including theory and smaller experiments, not just NCSX. Outreach to the non-stellarator community is the responsibility of the entire stellarator community.
- \* Recent scientific advances in stellarators should be highlighted.

The NCSX team appreciates the opportunity to keep the PAC informed of developments in the NCSX program and receive your feedback. Further comments on the program or our interactions are welcome at any time.

Summary by:  
Hutch Neilson