## Summary: ITER/US-PFC Work/Issues (Session old 4)

- US ITER contributions: portion of magnets, diagnostic packages, ICRH/ECH, module 18, pumps, divertor cooling, pellet injector
- Some tasks through ITPA, e.g., oxygen baking, gas-kill disruption
- Some key issues: tritium inventory, ELMs, PFC material (Sauthoff)
- Radial convective plasma transport gives enhanced Be sputtering
- Far-SOL plasma, second X-point needs to be included (Rognlien)
- Be main-chamber sputtering with convection ~1nm/s (Brooks)
- WBC modeling of PISCES-B Be photon emission "marginally" agrees
- HEIGHTS includes vapor, splashing for large ELMs (Hassanein)
- Core C contamination through private-flux during ELM may occur
- PFC code survey shows a wide range of capability (Rognlien)
- PFC exper. survey includes single-purpose & integrated (Bastaz)

## Summary: ITER/US-PFC Work/Issues (Session 4) cont.

- DiMES has many uses: tile-gap, Mo mirrors, CH4, dust; extended to midplane through MiMES (Wong)
- PISCES-B Be experiments providing much needed data (Doerner)
- ELM simulator plasma with theta-pinch is beginning to work (Ruzic)
- Sprayed Be has improved structure with castellation (Youchison)
- Test-blanket mod.: two options pebble bed & liquid Pb-Li ( Morley)
- Discussion
  - May need to shift more effort toward ITER-relevance (Nardella)
  - Liquid-wall work has high leverage, payoff (Brooks, Majeski, Kaita)
  - Solid material temperature effects are very important (Wong)
  - Priorities seem to be tritium and ELMs (Ulrickson, Maingi)
  - Consider expanding ITPA divertor with more Technology (Sauthoff)
  - EU-style task-force may also be effective (Skinner)