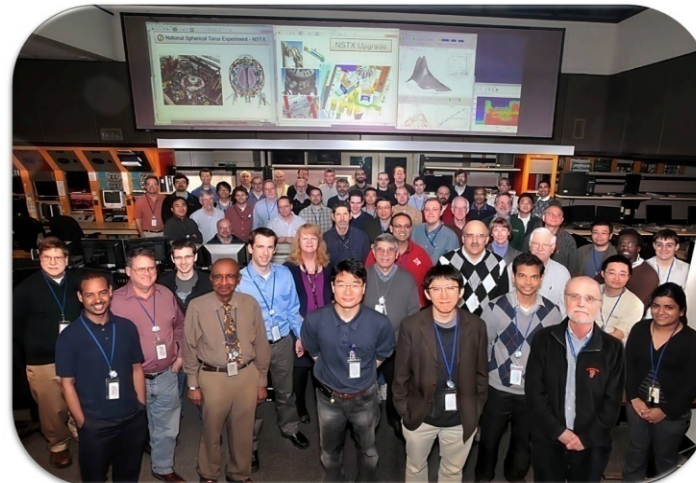
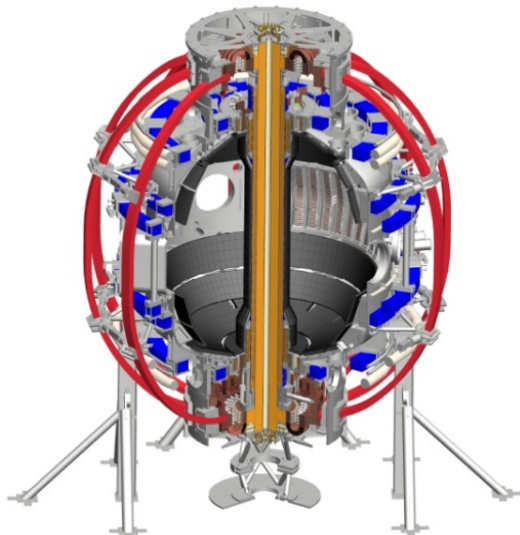


# EP-TSG session Meeting agenda et al.

**M. Podestà**

**NSTX-U Research Forum 2015  
EP-TSG session  
PPPL, Room B252  
02/24/2015**

*Coll of Wm & Mary  
Columbia U  
CompX  
General Atomics  
FIU  
INL  
Johns Hopkins U  
LANL  
LLNL  
Lodestar  
MIT  
Lehigh U  
Nova Photonics  
Old Dominion  
ORNL  
PPPL  
Princeton U  
Purdue U  
SNL  
Think Tank, Inc.  
UC Davis  
UC Irvine  
UCLA  
UCSD  
U Colorado  
U Illinois  
U Maryland  
U Rochester  
U Tennessee  
U Tulsa  
U Washington  
U Wisconsin  
X Science LLC*



*Culham Sci Ctr  
York U  
Chubu U  
Fukui U  
Hiroshima U  
Hyogo U  
Kyoto U  
Kyushu U  
Kyushu Tokai U  
NIFS  
Niigata U  
U Tokyo  
JAEA  
Inst for Nucl Res, Kiev  
Ioffe Inst  
TRINITI  
Chonbuk Natl U  
NFRI  
KAIST  
POSTECH  
Seoul Natl U  
ASIPP  
CIEMAT  
FOM Inst DIFFER  
ENEA, Frascati  
CEA, Cadarache  
IPP, Jülich  
IPP, Garching  
ASCR, Czech Rep*

# Agenda

**Intro** 1:30-1:35pm Podestà *Meeting agenda & XP prioritization process*

## **Overview of XP ideas**

1:35-1:45pm Crocker *UCLA reflectometer array  
Rotation effects on CAEs and GAEs*

1:45-2:00pm Liu *FIDA/ssNPA/sFLIP checkout XMP  
Beam-ion confinement of the 2<sup>nd</sup> NBI  
Effects of 3D fields on fast ion transport*

2:00-2:05pm Hao *Low-f MHD and fast ion redistribution*

2:05-2:25pm Fredrickson *Parametric dependence of TAE avalanches  
TAE with high beta,  $q_{min}$   
HHFW suppression of Alfvénic waves  
HHFW rotation control & TAE activity  
Initial TAE excitation with antenna*

2:25-2:30pm Boeglin *CFP fusion source profile measurements*

2:30-2:40pm Podestà *Summary of remaining XP ideas*

## **Combination of XP ideas**

2:40-3:10pm Podestà + EP-TSG

**Break** 3:10-3:20pm ...

## **Prioritization of XP ideas**

3:30-4:30pm Podestà + EP-TSG

# Combination & prioritization process

- After presentations of submitted XP ideas
  - Identify similar XPs, combine whenever possible
  - Run time is limited: *JEM's guidance is 5.5 un Days*
  - Identify cross-TSG XPs
    - Need input from other TSG sessions to make decision on these ideas
    - Coordination will follow at the Science Group level
- Prioritization will be based on:
  - Importance to achieve JRT, Milestone(s) goals; ITPA tasks
  - Importance to address EP-TSG goals for FY-15 from Five Year Plan
    - > *Draft list w/ priorities, run time request by the end of this meeting*
    - > *Then, iterate within EP-TSG and with other TSGs in the next day(s)*

**Core Science Group leaders requested XP list by Thu. 10am**

# EP-TSG activities expected to shift from initial “basic” characterization/checkout to NB-CD, confinement physics

Initial 4 weeks

## **NB checkout:**

Are different NB lines behaving “as expected”? Are results consistent with “classical” expectations (NUBEAM)?

After initial 4 weeks

## **Milestone R15-2:**

Assess effects of NBI parameters on fast ion distribution function, NB driven current profile.

## **FY15 FES Joint Research Milestone:**

Quantify impact of broadened current and pressure profiles on confinement and stability.

Possibly 2-year time-scale

## **ITPA-EP Joint Experiment on NB-CD**

NSTX-U/PPPL to lead the task (details to be discussed at March ITPA-EP meeting).