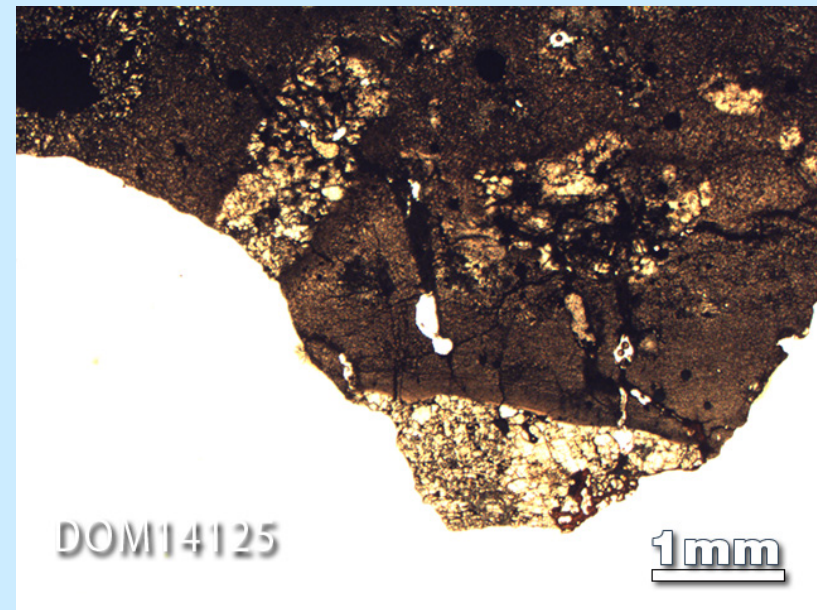


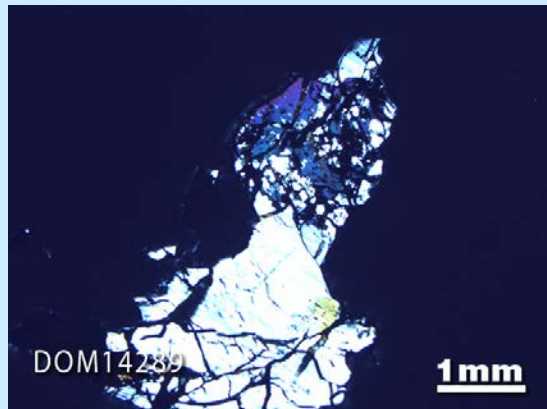
Antarctic Meteorites

Kevin Righter – Curator

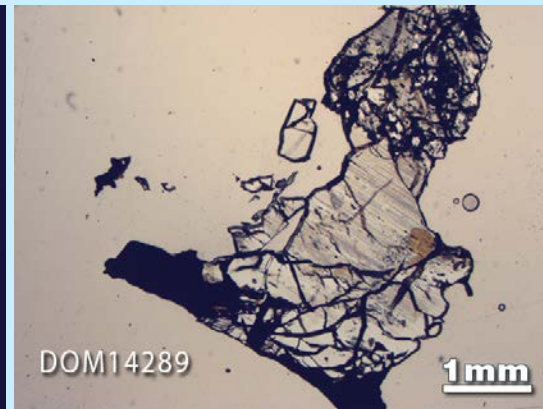
- Allocation of 348 samples to 51 PIs (6 mo)
- 234 meteorites published in Spring 18 newsletter
- ~263 new specimens collected in by 2017-18 ANSMET team (WSG, PRE, GRO)
- Received 40 requests for Spring 2018 meeting deadline
- 2017 inventory initiated 10/31/17 (278 sent)
 - 204 received, 22 pending, 52 outstanding
- Returned or consumed 493 meteorite samples since Fall 2017
- New MWG chair: Noriko Kita



71.31 g L impact melt



3.42 g lodranite



105.05 g IIIAB iron

Spring 2018 MWG – 40 requests (#3486-#3525)

Curatorial:

Sample type

3486	Mayne	metasomatism in eucrites
3487	Ma	shock minerals in LAP lunar basalt
3489	Schrader	aqueous alteration in CR and ungr chon
3499	King	TES of heated chondrites
3500	Elsila-Cook	amino acids in E chondrites
3505	Hamilton	thermal IR of large EOCs
3511	Kleine	Ru and Mo in E chondrites
3514	Hallis	C in nakhlite
3519	Burbine	Vestoid spectroscopy

28 will be reviewed by MWG

Spring 2018 MWG – 5 new PIs

New	PIs	Location
3493	Furukawa	Tohoku Univ., Sendai, Japan
3501	Shaulis	Univ. Arkansas
3506	Ogliore	Wash U St. Louis
3510	Almeida	NHM London
3516	Hanna	UT Austin

Summary of educational sample activity

K-12 program meteorite disks

118 11/17 to 3/18
(reached ~ 29,000 people)



Meteorite hand samples (7)

7 “

Meteorite display samples (4)

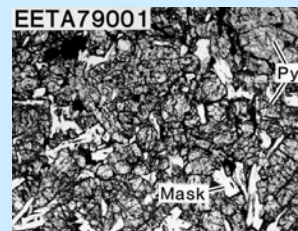
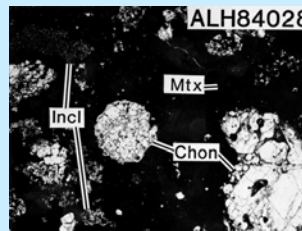
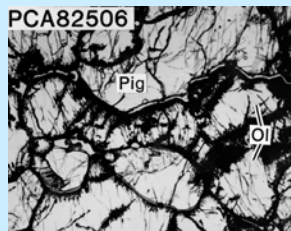
7 “



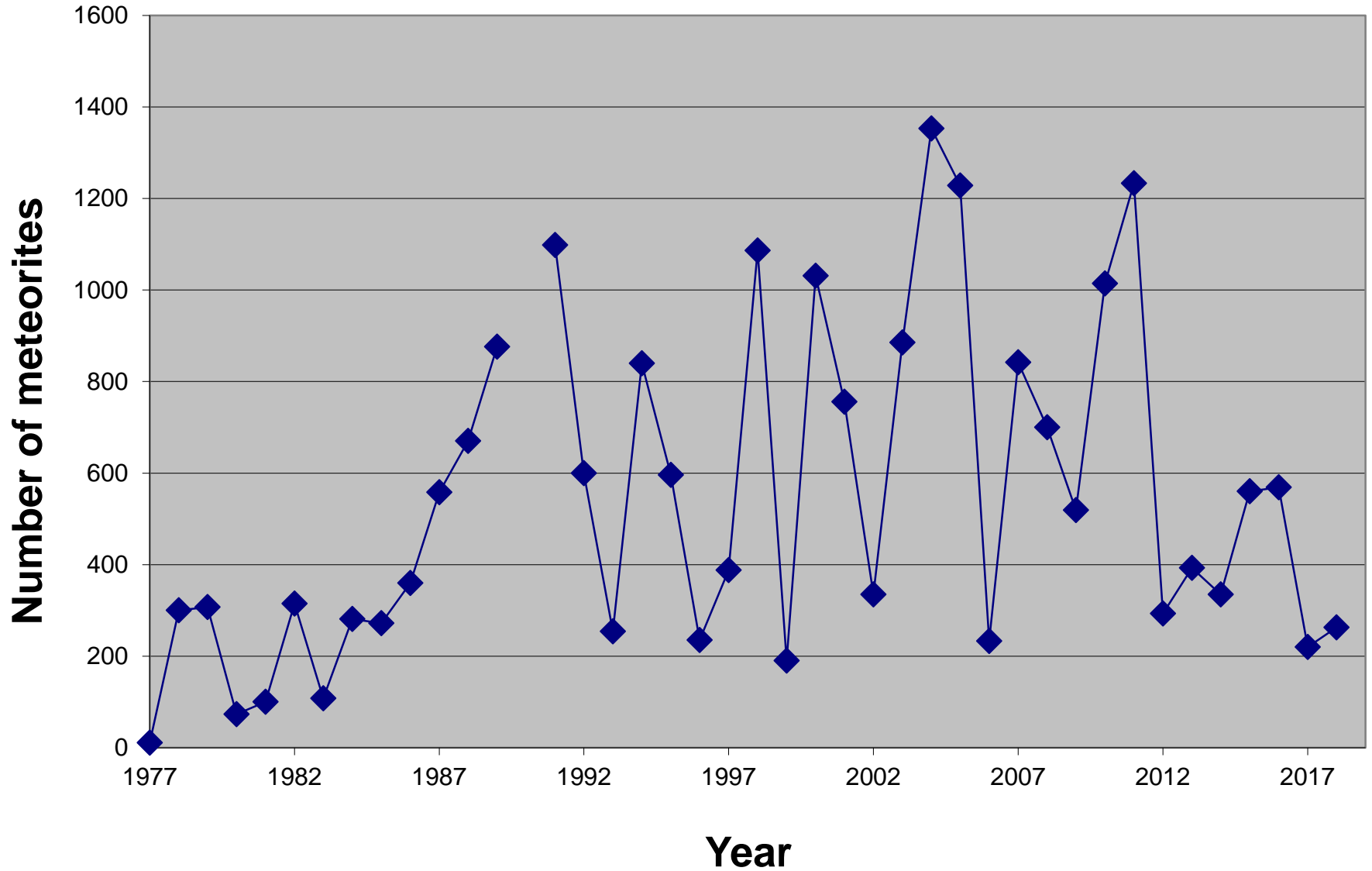
Sample Number
EETA79001, 301 (Mars)
QUE97002, 35 (Vesta)
GRO95533, 36 (Vesta)

College disks and thin sections

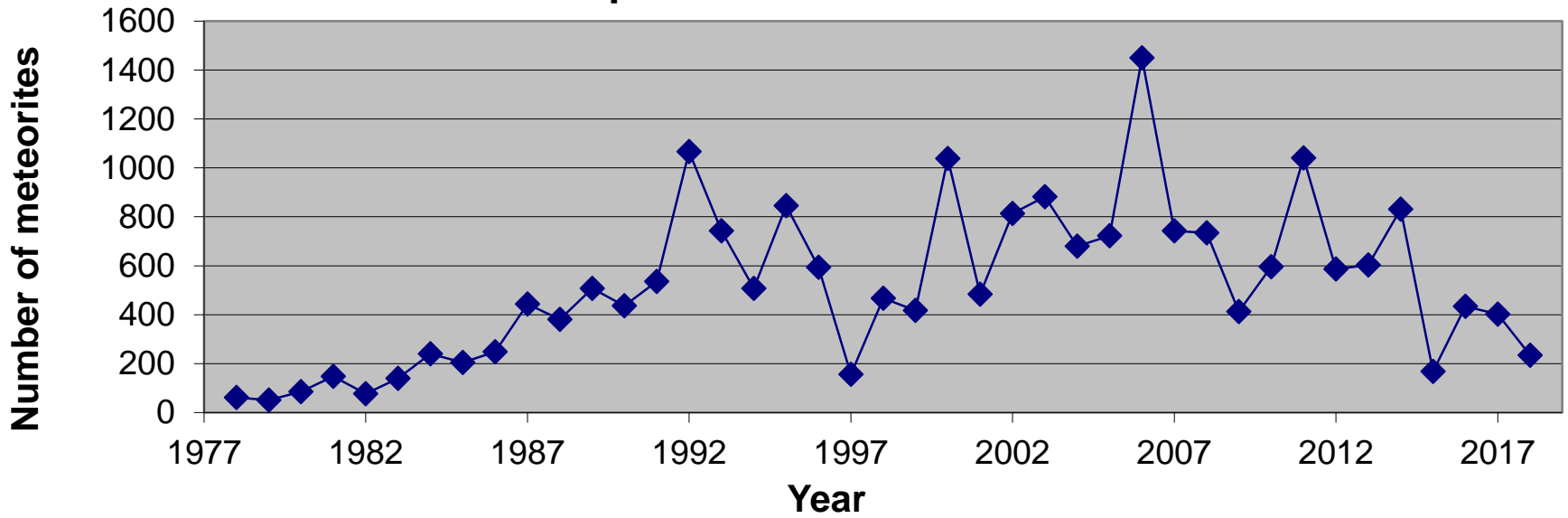
9 “



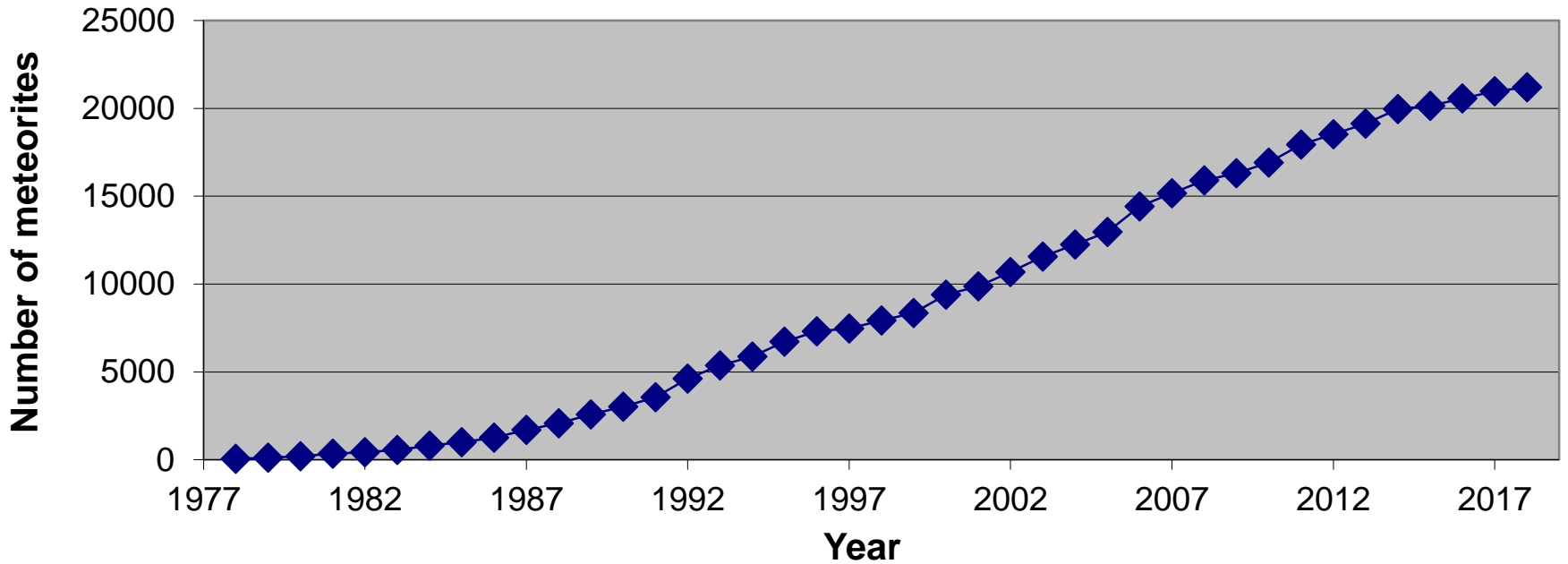
Number of meteorites collected by ANSMET



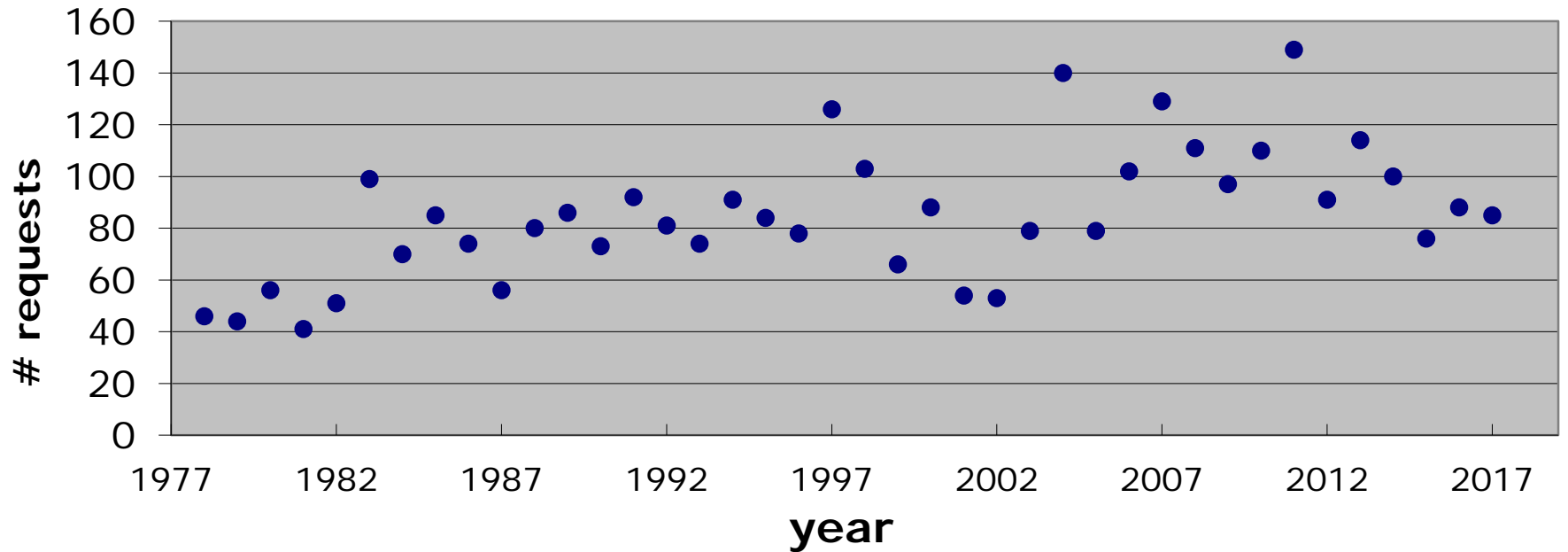
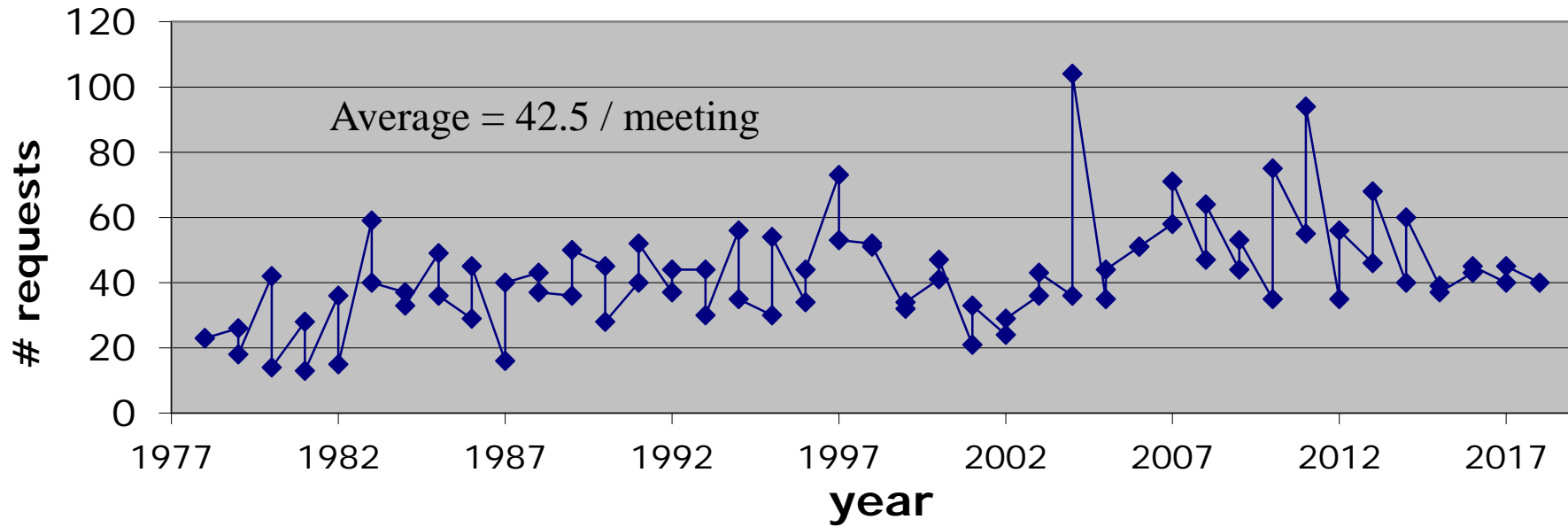
AMN # meteorites processed/announced



Number of meteorites processed/announced



Antarctic meteorite requests



OSIRIS-REx - New Frontiers sample return mission to asteroid Bennu

Kevin Righter – Curation Lead

Keiko Nakamura-Messenger - Deputy

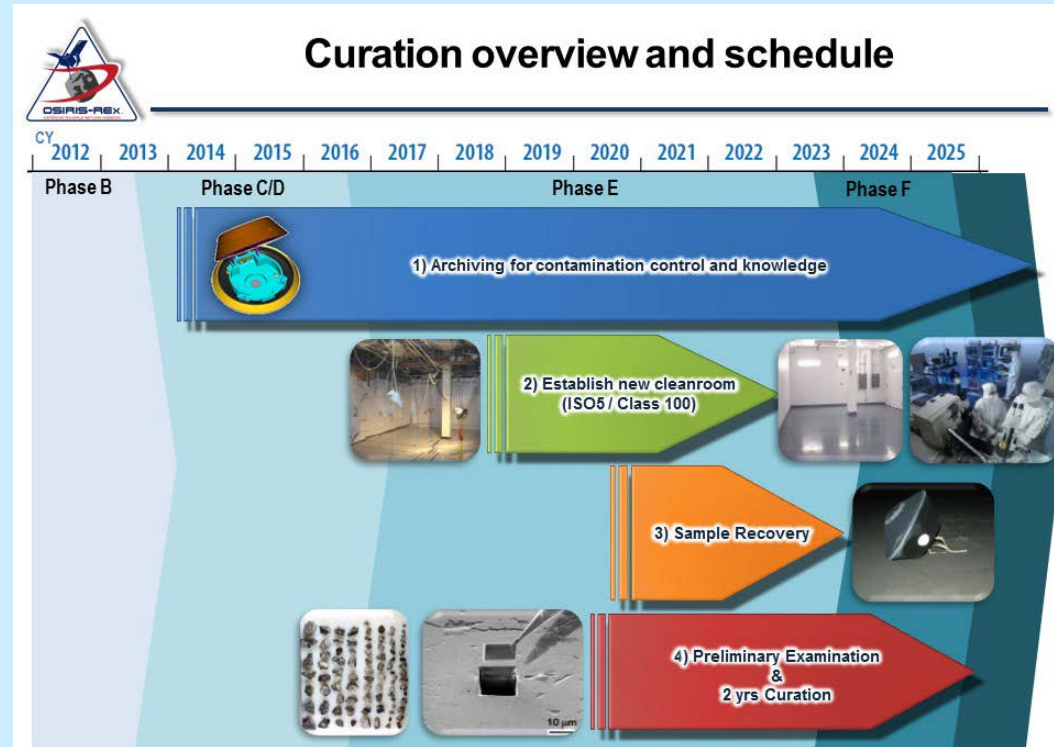
- | | |
|----------------------------|------------|
| Launched | Sept. 2016 |
| Trojan asteroid survey | March 2017 |
| Earth gravity assist (EGA) | Sept. 2017 |
- Phase E activities (in last year):
- Space Science Reviews paper on contamination knowledge published – archive in B31N cleanroom
 - Science team meeting in Tucson (11/17)
 - Finished design process; cleanroom co-located with Hayabusa 2 cleanroom on second floor of B31 (LPSC poster).
 - Curation Plan – updated ITAR approved draft ready for CAPTEM review - new version includes MOU with international partners, archive collection, cleanroom design update, lab outfitting, PE updates.
 - JAXA meeting in December allowed discussion of sample exchange details of NASA-JAXA MOU and OSIRIS-REx samples to JAXA
 - CSA curation POC Tim Haltigin visited JSC Feb. 22, 2018 to discuss aspects of NASA-CSA sample exchange and sample curation in Canada



Curation plan update

Since 2014 (CDR)

- International partner MOUs
- CK collection finished
- Phase E rehearsal plan
- Decision to have Hayabusa2 lab co-located with OREx
- Design initiated and completed in March 2017
- Curation facility upgrades
 - CT scanning
 - Cleaning, UPW, etc.



Upcoming milestones

Arrival at Bennu - Fall 2018

Pre-construction review - 2018/2019

Sample analysis plan - due 2019

Construction – early 2019

TAG / sample collection – July 2020

cleanroom ORR – summer 2022