## **Genesis Solar Wind Curation**



Allton & Nyquist 11/9/2016 CAPTEM



### Requests & Allocations FY 2016

Genesis-flown

18 samples, 5 investigators

Reference material

3 samples, 2 investigators

Science studies

Br feasibility, Mg fluence & isotopes, sulfur fluence, cleaning studies

Requests

8 from 6 investigators

Lab work has focused on characterizing regime samples to support investigations involving solar wind physics and on long term storage efficiency.



# Accessible GENESIS knowledge needed-

### **Idea One:**

Preserve corporate knowledge about collector materials through a "compendium" of materials by batch?

- Bulk purity
- Surface cleanliness
- Ion implant runs





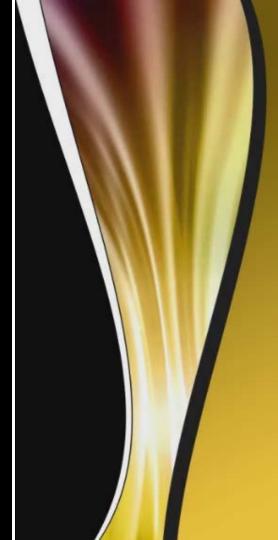
# Accessible GENESIS knowledge needed -

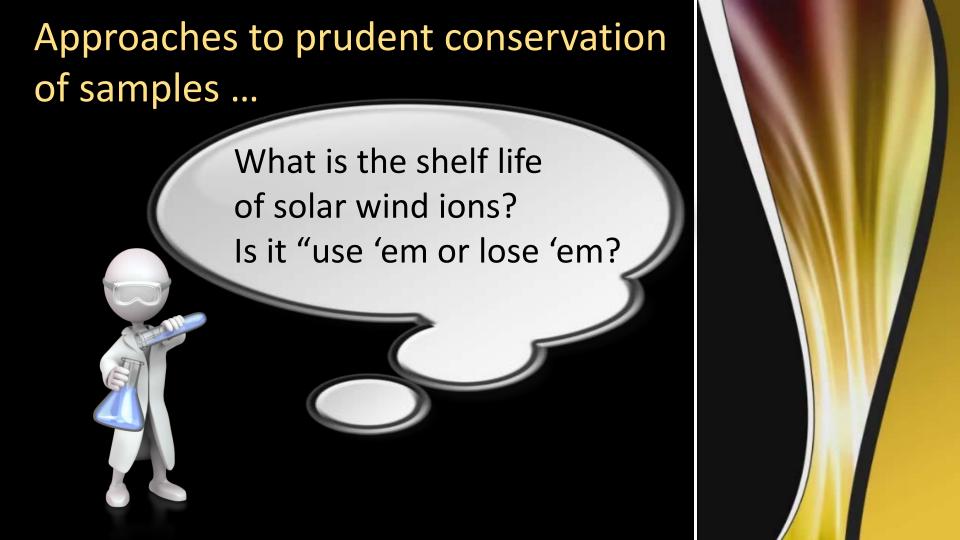


### **Idea Two:**

Maintain a "compendium" of published science results. This would be helpful for subcommittee reference in evaluating requests.

As well as requestors





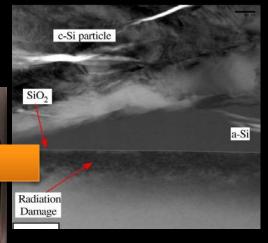
Use science & engineering knowledge from Genesis samples for exploration?

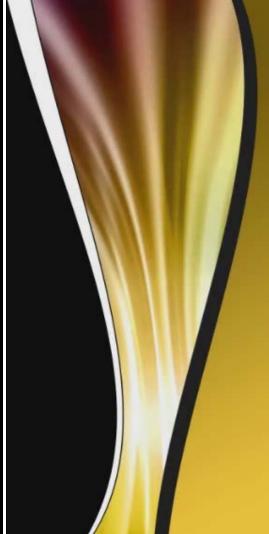
A way to bring scientists into mission participation?

Space weathering

Molecular contamination distribution

Crash impact modeling





#### **PRIORITY**

- COMPENDIUM OF MATERIALS
- COMPENDIUM OF SCIENCE



Thank you!

Teaser footnote – 2016 paper by Choi et al in Chemical Geology, v 441, pp.246-255 quantifies Fe and Ni abundances.... Ni abundance is higher than expected.

