

Update on Demographics project

A status Report

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Why do it:

- Critical need to know how our field is faring (started by DPF in 1995)
- The trend- especially with young people
 - How many enter, how many leave, how many get permanent positions, how many stay as untenured staff
 - Congress wants to know where they go when they leave HEP (do we prepare a strong work force)
- Now the need is more urgent about the future of HEP

A Brief History

- Demographics Committee (current): Jonathan Bagger, Bill Carithers (in charge of census), Helen Quinn, Usha Mallik (chair), Maury Tigner
- Got jump started with Mike Ronan taking over the previous existing database and re-doing the software in 2005.
- Bill Carithers took over in Dec/2006 – Jan 2007
- Mallik has been working on analysis with help from her group : now Matthew Charles

Status

- Real improvement where error rates can be measured
- After Mike, Bill has done a phenomenal work to keep things moving and presented results for the 2007 data collected
- Mallik and Charles analyzed the data comparing it with some of the data collected in previous years.
- Have incorporated unique ID key (in the copy database)
- While numbers in various categories are similar, they are not the same
- Points to certain systematic trends

Observations

The data collected need improvement: old entries keep getting repeated (general apathy)

Proposal and Plan

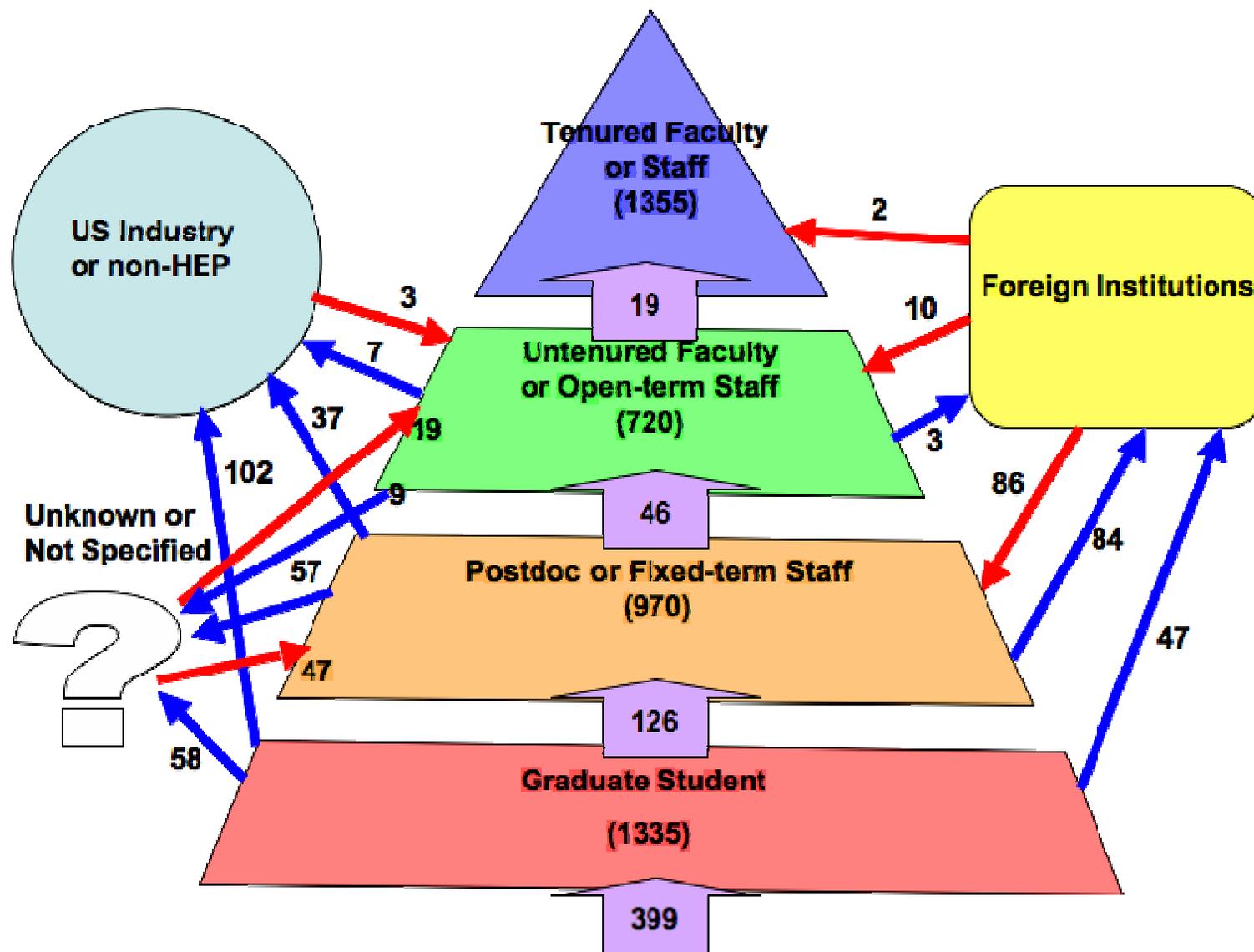
- Improve the Census quality
- Decide on a format for the yearly census with the committee to make it clear and user friendly
- Incorporate the automatic checks
- Transparency in database for easy analysis and readability

Some statistics

Full Summary		Table 1: Historical trend for full field				
Number of	2003	2004	2005	2006	2007	
Institutions	156	156	153	156	153	
People	4222	4218	4200	4415	4589	

Number with job title	2003	2004	2005	2006	2007	
Retired faculty or staff	187	185	199	208	208	209
Tenured faculty or staff	1343	1341	1359	1364	1355	1338
Untenured faculty	228	242	255	261	284	276
Untenured, open-term research staff	396	415	421	422	436	434
Postdoc or fixed-term research staff	935	960	957	942	970	948
Graduate student	1129	1073	1223	1243	1335	1318
No title specified	4	2	1	1	0	0

Number with field (may select multiple)	2003	2004	2005	2006	2007
Theory	1292	1289	1390	1407	1414
Experiment	2555	2563	2634	2650	2783
Accelerator	487	467	498	494	517
No field specified	4	2	1	1	0



Conclusion

- The database is in the process of becoming complete
- To improve data quality and to ascertain the quality, intensive and careful work needed
- Next Bill and Usha/Mat will compare the transition rates in order to understand the details
- Will report on the results soon