UNIVERSITY OF CAMBRIDGE

Build-up and execution of a centrifuge test

1. Discuss test programme with supervisor
2. Book test week through Magda
3. Decide on Research Worker and Engineer for tests
4. Design equipment and test format
5. Weigh and find the centroid of all equipment
6. Do stress calculations and have them checked as early as possible by the Engineer
7. Produce a PAD. The PAD must be signed by the Project Leader
8. Assemble package and complete model making as far in advance of the test time as is possible (e.g. 2 days) so that all instrumentation can be checked on the lab floor.
9. Complete balance calculations and check overall weight on the digital balance mounted on the crane arm. Have them checked first by the Research worker and then by the Engineer.
10. Take plenty of photos
11. Mount the package on the beam arm (with the aid of the operator) and check all instrumentation and actuation devices.
12. TEST: don't panic (but if you do that's normal). Yourself, the Research Worker and the operator must be present in the control room for the duration of the test. On the first test the Engineer should also be in the building or readily accessible.
13. Complete any measurements and take photos.
14. Clean the package up and store all equipment carefully, so that next time is easier and not more difficult.
15. Record any observation/remarks to help with the next test.