

MECHANICAL UPDATE

PLUME Meeting

03/5/11

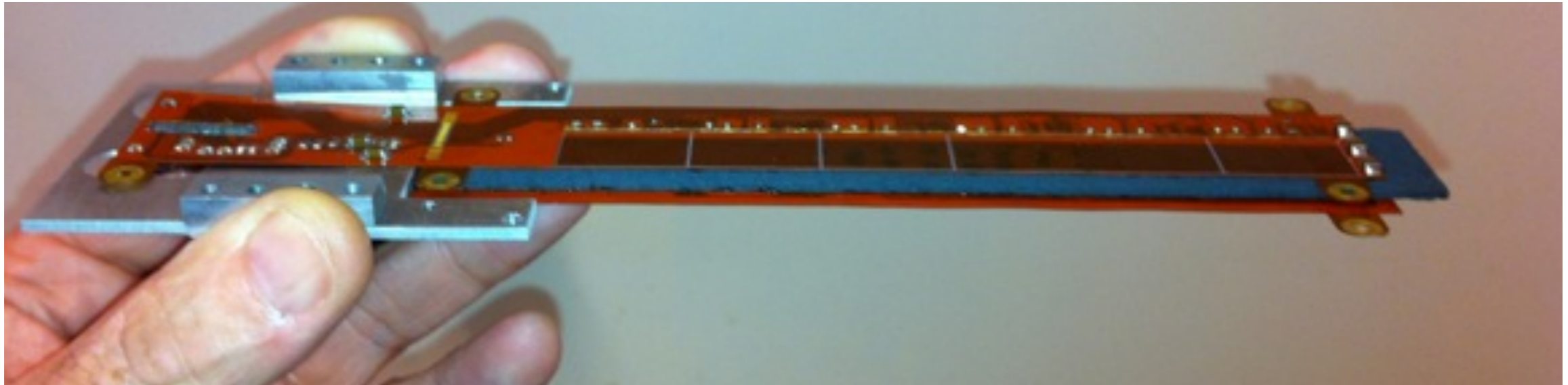
Joel Goldstein

First Assembly



- * Mechanical Assembly in April
 - * Blank flexes
 - * Aruldite 2011 epoxy applied by hand
 - * 2-3 days including curing
 - * Foam not quite parallel
 - * Minor modification to jig

Robustness

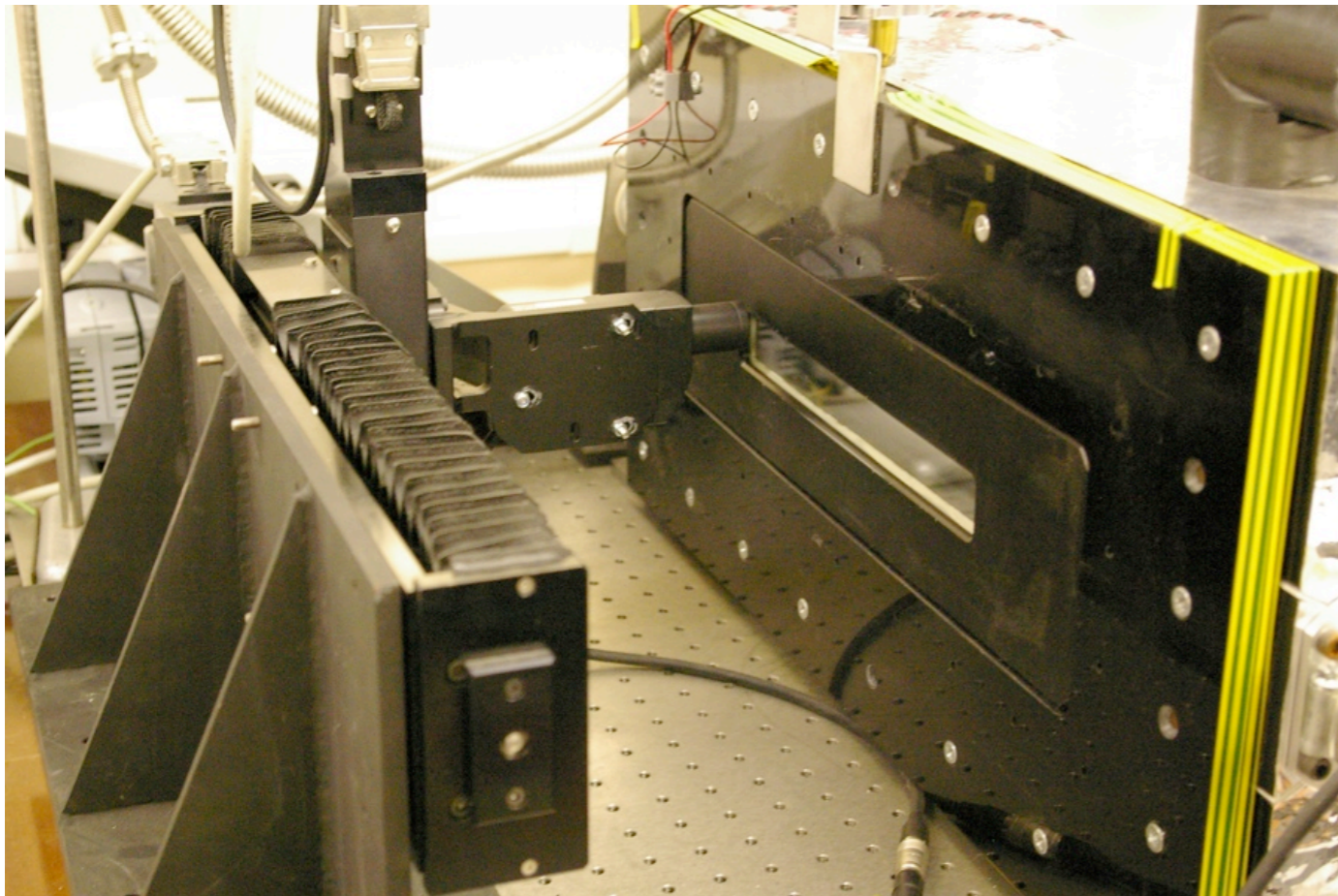


- * Adhesion good quality
- * Bond on butt joint holds ladder weight
 - * Have not seriously tested robustness
 - * Transverse clamp for safety
 - * No glue between flex and aluminium.....?

Status 3/5/11

- * Ready to make next mechanical assembly
 - * Jig modified
 - * Flexes with mechanical chips
 - * Delayed due to holidays/Easter/Royal Weddings
- * Components for another 10+ assemblies
 - * Should be ready in workshop
- * Cooling manifolds/mountings being worked on
- * RAL test rig free
 - * Expert available

RAL Survey Rig



- * System built for LCFI
- * Based on con-focal laser
- * 0.1 micron precision
 - * Accuracy \sim micron
- * Low temperature capability

Next Steps

- * Build and survey second mechanical assembly
- * Build, survey and test electrical assembly
- * Ready to build ~10 electrical units
 - * Survey rig available, but expert only helping us out as favour