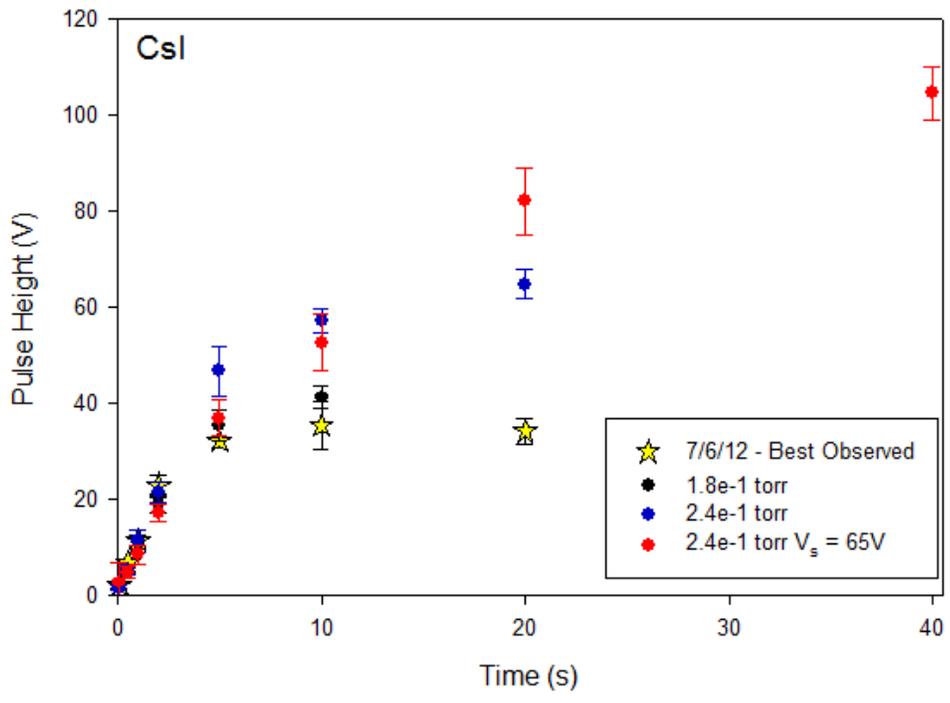


Dear All,

This email serves as a summary of events of the shift today, it has been a good day for solving some of the previous problems.

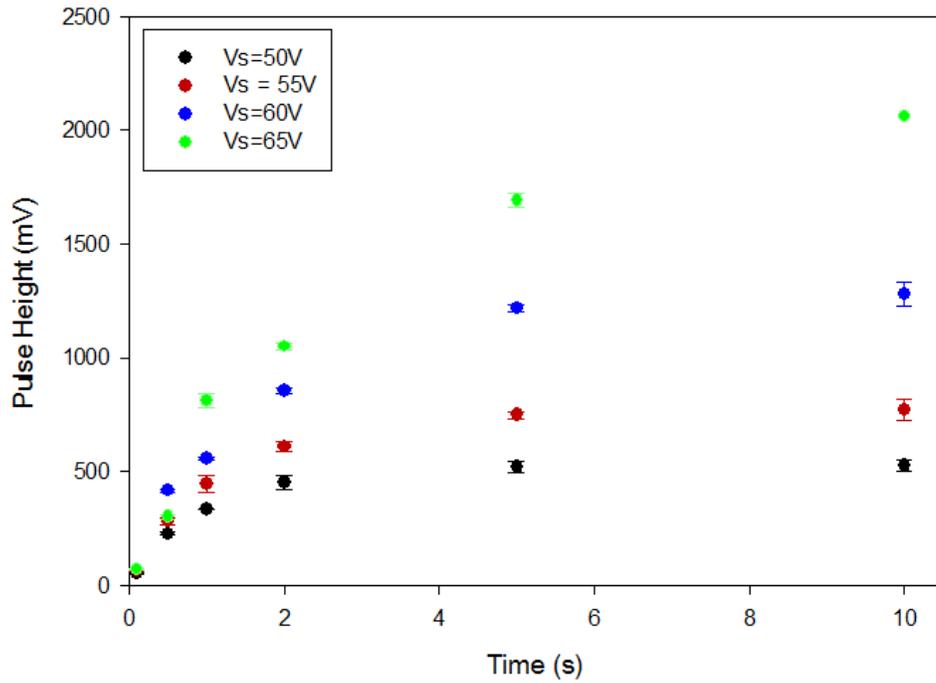
The day began well with the measurement of pulse height vs time using the CsI detector matched the previous best measurement

compare the yellow stars and black points in the plot below:

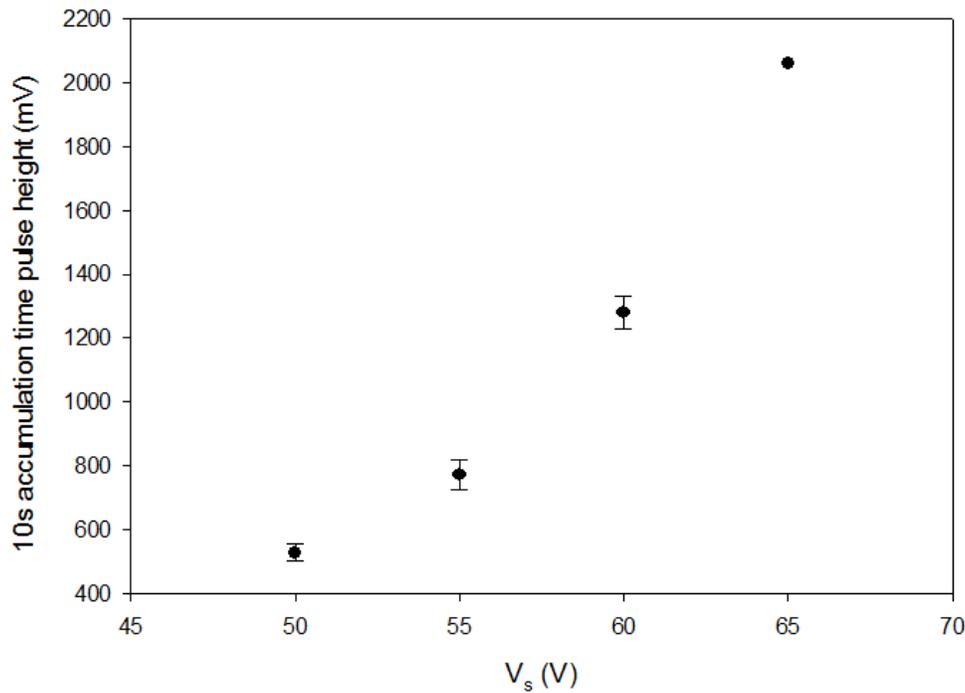


After I realised that the pressure was actually lower than usual, the signal got stronger (see blue points above).

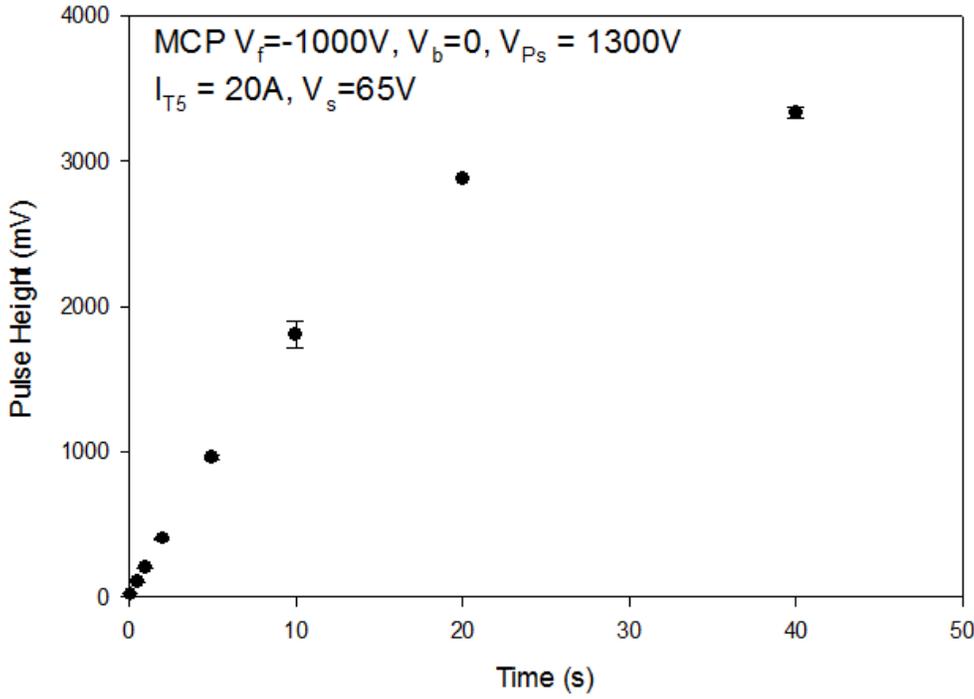
Encouraged by these good results, I decided to investigate the effect of changing the source potential in the hope that I could create a 'deeper' potential well. The initial results of this study are shown in the plot below.



The dependance on the 10s point with increasing voltage appeared non linear, however due to the previous problems with the source heating up I have not attempted to go to higher potentials than 65V



With a source potential of 65V the measurement of pulse height Vs time was repeated and a very different result observed



The curve now saturates at 40s rather than 10.

After these results, there is a great deal of investigation to do in the coming days!

As always comments, questions and suggestions welcome

Kind regards

Dan

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