IF Fellowship Closeout Report

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In my case, the IFF was completely connected with my sabbatical

from Drexel University over the period from 1 Sept 2017 to

20 June 2018. I relocated to Fermilab for that period, which

allowed me to be much more active in DUNE/LBNF. The small

Cherenkov muon beam monitor prototype that I have been working

on had many cycles of test/diagnose/fix, only made possible by

being on-site where I could take advantage of short beam

outages to access the prototype. I now have a much better

understanding of what is needed to make the next iteration

of the prototype a success.

I've also gotten involved in the DUNE calibration task

force, the Cryogenic and Slow Control consortium, and as

a co-convenor of the DUNE Database working group. It's not

100% clear that I'll be able to maintain this level of

involvement when I'm off sabbatical, but at least the

intense 'start up' effort is now done.

I've also been able to involve my graduate student, Tyler

Rehak, with this work, supporting him on-site through Jan-Mar

2018, during which time he was able to progress in his

involvement with DUNE/LBNF beamline monitoring simulation

and analysis.