

Frank Moore passed away on 12/11/2017. An obituary will soon appear in Neutron news, and there will be a link to this longer tribute on the history webpage.

Recognising the significance of Frank Moore's contribution to crystallography.

There are two scientific achievements from Frank Moore which are outstanding: his work on the neutron structure of Vitamin B12 and his publication of crystallographic bond lengths and angles refined using only the "unobserved" data. The first of these has been beautifully summarised by Brian O'Connor, who was a co-worker with Frank during his time at Oxford and Harwell in the 1960's. The second was almost mythical until very recently, when I came across Frank's report to AINSE of his overseas trip to Japan in 1972, which includes the "paper as presented" to the IUCr congress. The origins for this also came from his Harwell years and discussions with Brian O'Connor on how best to treat weak reflections and negative measured intensities. Frank's own comment about the talk:- "This paper was extremely well received by a good audience in spite of the shock tactics employed in its presentation. Perhaps unfortunately, any opposition was silenced, by the immediate support given by such scientists as Hamilton, Young, Coppins, etc. Discussion was extended 10 minutes into the tea break at the request of the audience."

I have retyped Frank's "paper as presented", the only change being to put all the slides together at the end.

Enjoy Brian's story and Frank's talk.

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