John Allason of Godfrid's mathematics book, 1676

C.T.J. Dodson

ctdodson@manchester.ac.uk

About 35 years ago an elderly lady in Bentham, North Yorkshire gave me a book that had been left behind by accident at the back of a bookcase after she had arranged for auctioneers to clear her house before moving. She said that it had belonged to her late husband and as I was a mathematician it was evidently meant to go to me since this volume was entitled "Mathematical Recreations: Or a Collection of many Problems". That is the sum total of my knowledge about the recent history of the volume. However, the book is well-preserved, leather bound and embossed front and back with the monogram



of its owner, who had inscribed his name thus inside the front and back:



Which latter places his abode, Godfrid, in the Loweswater area and we believe this to coincide with the 17th century part of what is now called Godferhead and of which a photograph is given below. So John Allason had some of the best views of the region from his window facing down the valley while he enjoyed his mathematical recreations.

The book, measuring seven by five inches, written by H. Van Etten, published in London in 1674, runs to some 300 pages with problems collected in 14 chapters entitled "Experiments in ..." Arithmetic, Geometry, Cosmography, Horologiography, Astronomy, Navigation, Musick, Opticks, Architecture, Statick, Mechanicks, Chymistry, Water-Works, Fire-Works, and a final appendix on using an astrolabe or as Van Etten calls, it a Double Horizontal Dyal.

The mathematical content is elementary but the breadth of application topics, accompanied by superb grey-tone illustrative drawings makes it fascinating reading. Even more fascinating is the fact that John Allason filled every spare blank page with neatly penned solutions to various of the problems, for example:

3 points gibin to I raw a Gurto y shall be half fact through those points, soull's they be not foralifin a direct line Set of B. G. i points giben, 1. of 3 points make a set and By Defending the lines of Black of the them sit on bot of yet compassiff in Best of the foot of yething of compassiff in Best of the foot of yething of 2 former of this in g & h. hom with draw a night lines, putfindle Deliver of them set of foot of yething of 2 former outlier flow to the hon set of foot of yething the principal outlier flow to the hon set of foot of yether where in a such for the principal of B in 2 yearst ports of the principal in the foot of yether where is a foot of yether where is the foot of yether where is a foot of yether those in fact of yether on draw of Lond or of the got of the principal of the gold on public the other will I was a Distantos ones theory yether points of gibts points of B. D.

IO Wathematical Recreation.



Fifi, the Mallet, or Hatchet reft upon the Scale, or upon the Beam of the Ballance, and put into the other Scale as much weight as may counterpoife it, then charging or laying more weight into the Scale, and thriking upon the other end, you may fee how much one blow is heavier than another, and fo confequently how much it may weigh: for as Arithate faith, The motion that is made in firthight adds great meight unto it, and fo much the more, by how much it is quicker: therefore in effect, if there were placed a thought upon a frong, nay, though it were exceedingly preffed down by way of a Vice, by Levers, or other rigor and violence of a blow.

Is it not evident that the edge of a Knife laid upon Butter, and a Hatchet upon a Leaf of Paper, without firiking makes no imprefinon, or at leaft enters not? But firiking upon the Wood a little, you may prefently fee what effect it hath; which is from the Quickness of the Motion, which breaks and enters without refishance, if it be extream quick, as experience flews us in the blows of Arrows, of Cannons, Thunder-bolts, and fuch-like.

Mathematical Recreation.

Examination.

This Problem was extraited from Scaliger, who had it from Ariftotle, but somewhat refractory compiled, and the strength of the Effect he say depends onely in the violence of the Motion; then would it follow that a little light Hammer upon a piece of Wood being quickly carfed to smite, mould give a greater blow, and do more burt than a great Sledge striking soft; this is absurd, and contrary to Experience. Therefore it consists not totally in the Maion: for if two several Hammers, the one being twenty times beavier than the other, should move with like Quickness, the Effect would be much different: there is then smeething else to be considered besides the Motion, which Scaliger understood not: for if one should have asked him what is the reason that a Stone falling from a Window to a place near at hand, is not so speciable as if it slid farther down; and when a Bullet slying out of a Piece, and striking the Mank near at hand, will not make such as the scaliger and Cardanus who has less this subject, would not be less troubled to resolve this, than they have been in that.



Unfortunately, we know very little about John Allason's personal details. Part of the reason for an item I wrote for the *Newsletter of The Lorton & Derwent Fells Local History Society*, *Vol 38 (2006) 3-5*, was to stimulate local historians to discover more details of his life and family. Here are a few possible connections that I have discovered:

Allasons are listed in Cumberland in 16th and 17th century parish records, including

- Penrith 1558,1576,1577,1581,1595,1642, Gilcrux 1697,1705,1706,
- Newton Reigny 1596,1601,1604,1607,1614,1622,1623,1625,1643,1698
- Dearham 1673,1676,1686,1702,1707
- Lamplugh 1621,1632 (Peter Allason of Loweswater m Janet Robertson of Winder)
- A John Allason was curate at Forrest Hill (Oxford Diocese) in 1697.

Derek Denman and another local historian, Michael Baron drew my attention to this item from the Loweswater Parish Papers mentioned by Rosemary Southey in *The Link—Lorton Parish Magazine*, *October/November 1990*:

"In 1700 a belfry was built onto the church by John Bowman of Ullock. The money necessary for this work was raised by the overseers of the work, John Allason of Godferhead and John Tolson (probably of High Nook). A church rate was levied though the parish's many Quakers refused to pay as indeed they had refused to pay for the previous repairs in 1683. John Allason for one must have regretted the days before the Toleration Act of 1689 when he could confiscate property in lieu of unpaid rates. 1683, say Quaker records, the 20th day of the 12th month (February) came John Allason of Grafred and took away from Anne Dixon of Waterend a pair of leather mittens worth 7d for 6d demanded for repair of the bell-house. (There were about 80 households in the parish, so if each was required to pay 6d for the repairs the approximate cost would have been 40/- or £2.)"

I would be very glad to receive any comments, suggestions and information that may help me assemble some historical details of John Allason of Godfrid; I can be reached by email at: ctdodson@manchester.ac.uk