

[REDACTED]

Southampton

2nd Jan 1962

Dear Tom,

My parents moved safely to 18, Homestead Drive, Wakefield on Dec 27th, and over the next two days I was able to drive to Oakham and then down here quite easily. Now my car is stuck in deep snow in the Hall grounds.

Here now are a few chance gleanings from my notes taken over the vacation.

1. Mrs Hall, Ripon, was busy in her large drapery store. She has had several operations to her feet and can no longer dance. It is clear that I shall be able to get more information from her later when she has had time to think about things. In the mean time I only learned that she things only two ladies at a time reel in the 5-some; the shuffle off for the better dances was doubted (as in Scottish double shuffles)
1. Hop on L.F. R.L.R. Beat 5 (or 4) times with R.F.
2. Drop on to R.F. etc. She could not do it (she said it needs clogs), and nor can I. Finally I prompted her about the sword dance and

she ^{said} ~~agreed~~ that step-hop across the point was the first step. Then she offered a step in which you hop on LF in one corner and point R toe in other 3 steps (very confused), and one in which you jump across points landing both feet on ground alternately LF in front of RF & RF in front of LF - do this carefully at 1st point then somehow on to 2nd. It is impossible! Her husband is going to work on her to get her to recall to more. Incidentally - her dancing partners name was Robinson. ~~It is~~
I shall visit her again at Easter. Let me know if there are any more questions you want me to ask her then.

I did not manage to get to Wharfedale.

2. Bankfield Museum. Halifax

Playbill (A.P.M. 39)

Bacup Mechanics Institute

Mon + Tues March 11th + 12th 1861

The Female Christy's Minstrel

Dances by the Ethiopian Togliani.

When did the Bacup Coconut dances start?

The last question was frivolous when I wrote it - but having looked up some 'authorities' it is now quite serious. You probably have in the library

Edward ~~Bainey~~ Baines : History of the County Palatine and Duchy of Lancashire Lancaster , New Edn 5 vols Manchester 1836.

Can you see what reference to dancing in Rochdale it makes in vol II p 635? (Reference from

JEF DSS 1960 pp 10-28). If there is a reference

to coconut dances there , my ugly suspicions will be dispelled. However, Alford 'Intro to English Folklore' p 105 says we are asked to believe that they held their 'Jubilee' in 1907. 1857 is near enough to 1861 to be worth serious investigation.

3. Ripon corporation museum. Collection of playbills.

The usual dances.

Also (a) Tuesday November 28th 1854

Hornpipe , 6 logs 60 ounces in weight , Mr Palliser.

(b) Wednesday December 27th 1854

Grand Christmas Treat. Includes

Prize Dance. A splendid leg of mutton will be given to the best step dancer.

4. I have just found Chapter I 'Step Dancing in Scotland from 1750 to the present day'. I have copies of Early Highland Games, Social Dancing in Scotland and Dramatic Tings.

J. Playbills in Wakefield Museum and Library

(a) Friday September 12th 1888.

At the end of the play a Dance called the Highland Laddie in which will be introduced a Scotch Reel by Mr + Mrs Cassels and Miss Sully.

(b) Thursday June 28th 1821

Witch's Bann. In scene 2 A Beron Dance.

(c) Thursday September 7th 1820

[Madame S Fergis] will introduce ... an admired Juracha Dance.

Can't find a reference to this anywhere, Tam, and have forgotten when it was introduced - will you remind me please?

(d) Monday August 28th 1873

Grand Celtic Entertainment.

Pipes and dancing alternate. Archibald M'Donald

Donald M'Dougall and S. Campkell dance

Gamericians Rant, The Original Strathspey Step,

Marquis of Huntley's Highland Fling, Gillie Gallun,

Highland Reel, Highland Laddie, Highland Fling,

The Original Reel of Tulloch, The Original Tullochgorum,

Gilleann a Neilludh or the lads with the kilts,

Marquis of Huntley's Scotch Reel.

Photo copies ordered.

6. Now a bit of mathematics. I decided to look up differentials while the subject was still in my mind, and it is a good job that I did for I misremembered what we talked about. I thought you told me that Dieudonné dealt with differentials, but I see that he doesn't. Can you remind me who does it satisfactorily? The situation seems to me to be that if $f: E \rightarrow F$ is differentiable so that $f': E \rightarrow \mathcal{L}(E; F)$ then the differentials at x_0 are the independent and dependent variables of the function $f'(x_0)$ and we have $[f'(x_0)](dx) = dy$. By the way, why did you reject the notation $\left[\frac{d \sin x}{dx}\right](x_0)$? It appears to be better than $\left[\frac{d \sin x}{dx}\right]_{x_0}$ and is certainly better than $\left[\frac{d \sin x}{dx}\right]_{x=x_0}$.

Now in the theory of differential equations one wishes to free dx and dy of their dependence on x_0 . It appears to be necessary to restrict oneself to the case where E is one-dimensional, say the reals \mathbb{R} . Then $f'(x_0): \mathbb{R} \rightarrow F$ can be identified with a vector, say $\bar{f}'(x_0)$ so that the mapping $f': \mathbb{R} \rightarrow \mathcal{L}(\mathbb{R}; F)$ is identified with the mapping $\bar{f}': \mathbb{R} \rightarrow F$. Moreover, the vector dx can be identified with a number dx . Then the function image $[f'(x_0)](dx)$ is identified with

the product $dx \cdot \bar{f}'(x_0)$. In this case dx and dy are related to \bar{f}' and so are freed of their dependence on x_0 . Now dy is not the image of \bar{f}' but of the function $F: R \times R \rightarrow F$ defined by $F(dx, x_0) = dx \cdot \bar{f}'(x_0)$.

If $g: R \rightarrow F$, set $G: R \times R \rightarrow F$ ~~set~~ $G(dx, x) = dx \cdot g(x)$. A solution of the differential equation $dy = dx \cdot g(x)$ is a function f such that $F = G$.

In case $g: R \times F \rightarrow F$, a solution of the differential equation $dy = dx \cdot g(x, y)$ is a function $f: R \rightarrow F$ such that ~~$F = G$~~ , $F = G$ where $G(dx, x) = dx \cdot g(x, f(x))$.

I do not see any way define dx and dy so that $dy = dx \cdot g$ is a differential equation in the function sense. So far as I can see the differential equation is $F = G$, and this is equivalent to the differential equation $\bar{f}' = g$ (in the simple case). How have you dealt with it?

Best wishes

Frank