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INDEX NOS 65-68

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Please send any information on relevant publications during 2009 to

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THE QUARTERLY

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Many of you are busily researching the huge variety of different areas that make up our complex and fascinating subject.

Whether it be Watermarks, Papermakers, Paper Mills, Equipment and Technology, Processes, Raw Materials, Paper Usage, Conservation, Social History or any other area, please share your conclusions and your work in progress with the rest of the readership by contributing to *The Quarterly*.

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THE QUARTERLY

The Journal of the British Association of Paper Historians

INDEX NOS 81 - 84

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THE BAD COMPOSITION OF MODERN PAPER

Extract from: "Observations and Experiments on the Bad Composition of Modern Paper with the Description of a Permanent Writing Ink, which cannot be Discharged." By John Murray, F.S.A., F.L.S. Member of the Geological and Meteorological Societies of London; the Wernerian Society of Edinburgh, etc., etc., etc. Sold by G. and W. B. Whittaker, Ave-Maria Lane, and all other booksellers. 1824. Reprinted from the Technical Bulletin, August 1935, p.107.

The following are extracts from a communication of mine which appeared in the *Gentleman's Magazine* for July last:

Allow me to call the attention of your readers to the present state of that wretched compound called *Paper*. Every printer will corroborate my testimony; and I am only astonished that the interesting question has been so long neglected and forgotten. It is a duty, however, of the most imperative description; – our beautiful religion, our literature, our science, – all are threatened.

Every person in the habit of writing letters on 'Bath wove Post,' must have been sensible of what I complain. Specimens there are, that being folded up, crack at the edges and fall asunder; in others, being heated at the fire, similar ruin follows.

I have seen letters of a recent date already become a *carte blanche*. One letter which I forwarded by post, fell to pieces by the way, and I have noticed more than once a description of writing paper that, being bent, snapped like a bit of watch spring.

I have in my possession a large copy of the Bible printed at Oxford, 1816 (never used), and issued by the British and Foreign Bible Society, *crumbling, literally, into dust*. No doubt it must be difficult to legislate on such a subject; but something must be done, and that early. I have watched for some years the progress of the evil, and have no hesitation in saying that, if the same ratio of progression is maintained, a century hence will not witness the volumes printed within the last twenty years. MS. *records* are in the same fatal condition....

The causes of destruction are two-fold: the material itself; and the mode of *bleaching* the rags.

The use of *cotton* rags was very happily superseded by that of *linen*; yet I fear some manufacturers are not very scrupulous in the selection.

The application of quicklime to the rags, once prevalent in France, very properly subsequently interdicted, was a serious evil, for it actually decomposed the material. Are we entirely guileless? – such a process must needs disorganise the fibre.

The Chinese dip their paper in *alum water*; it is thereby rendered brittle. *Alum* is clearly indicated, even to the taste, in the copy of the sacred volume already referred to.

I take it, however, that the *chief* causes of destruction consist in the employment of sulphate of lime, etc. in the pulp, and bleaching the rags previously, or the paper subsequently, with oxymuriatic acid gas. (*Chlorine*)....

Having examined the paper taken from the copy of the Bible, 1816, (already mentioned as in a state of ruin) by chemical reagents, I beg leave to subjoin the results:

To the tongue it presents a highly astringent and *aluminous* taste.

On a heated metallic disc the leaf evolves a volatile acid, evincing *white* vapours with ammonia.

The paper is *brittle* as tinder, and of a somewhat *yellowish* tint. The ink is *brown*.

The leaves were macerated in distilled water, and the liquid filtered, *litmus* paper was *reddened*.

Hydriodate of potassa became greenish yellow, from free *sulphuric* acid, or rather from excess of that acid obtaining in the supersulphate of alumina (*alum*).

Oxalate of ammonia gave the usual indications of lime.

Nitrate of silver exhibited the presence of *muriatic* acid, no doubt resulting from the *chlorine* employed in whitening the rags or paper.

Nitrate of baryta proved the presence of *sulphuric* acid, or of a sulphate.

The inference from these tests, follows:
Free *muriatic* acid (from the chlorine).
Sulphate of lime.
Supersulphate of alumina (*alum*).

This analysis has been submitted to the University of Oxford through the medium of a friend....

On the foregoing paper, the editor of the *Gentleman's Magazine*, in a footnote, makes the following remarks:

We insert this letter of our ingenious correspondent with much pleasure, as we can from sad experience *confirm the truth* of his assertions; and we are not without a hope of his hints producing some beneficial results. It is notorious that the great mass of printing papers are now made of *cotton* rags; and that to receive a better colour the pulp undergoes a chemical process which materially injures its durability.

THE QUARTERLY

The Journal of the *British Association of Paper Historians*

INDEX NOS 85 - 88

Compiled by Terry Wells

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The literature of paper, its making and history is increasingly well served around the world and the three books reviewed in this issue of *The Quarterly* are, each in their own way, important contributions to that literature, covering various aspects of the history of papermaking in Europe, the USA and Japan. All three books are beautifully designed and printed.

Washi: The Art of Japanese Paper

Nancy Broadbent Casserley

Published by Kew Publishing, London, 2013. 64pp.

280x242mm. 100+ colour plates. Paperback, with fold-out flaps. ISBN: 9781842464861. £15.00 \$24.75 available via shop.kew.org/kewbooksonline

This beautifully produced introduction to the wonderful world of Japanese paper was published to accompany a major exhibition, held at the NUA Gallery, in Norwich in April, 2013. The exhibition focused on two collections of international importance: the Parkes Collection from the Economic Botany Collection at the Royal Botanic Gardens, Kew and examples of 21st century washi lent by the Second Millennium Washi Committee in Kyoto.

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THE AIR RAIDS ON LONDON: DAMAGE TO PAPER MERCHANTS' PREMISES

From The Paper-Maker and British Paper Trade Journal, Vol.57, May 1919, pp.495. This article purported to be in parts, and ended with the phrase 'to be continued'. However, no subsequent part was discovered throughout the entirety of Vol.57 nor Vol.58, which together make up the edition of 1919.

During the period of the war it was found necessary under D.O.R.A. to enforce the strictest secrecy as to what damage was done by the Hun Zeppelin and aeroplane raiders on London, which gave rise to a lot of fantastic rumours, mostly untrue. The Press Censor has now lifted the veil, however, and it is possible to publish the full record of the damage, compiled from the official reports of the London Fire Brigade, which were issued by Lieut. Commander Sampson Sladen, R.N., who was then the chief of the Brigade, but who has now retired on a well-earned pension of £720 a year. They were in all 25 raids over London, commencing on May 31st, 1915, and finishing on Whit Sunday, May 19th, 1918. The damage to paper merchants' premises was fairly extensive, as the following reports will show.

Raid No.1 took place on Monday, May 31st, 1915, at 11.7 p.m., when 73 explosive bombs were dropped, 14 people were killed and 13 injured, whilst 105 sets of premises were damaged, but fortunately, no damage was done to trade premises. The same remark applies to Raid No.2, which occurred on Tuesday, September 7th, 1915, at 11.40 p.m., when the Huns dropped 20 incendiary, and 14 explosive bombs, killed 16 people and injured 20, damaging 90 sets of premises. Trade damage was, however, caused in Raid No.3, which took place on Wednesday, September 8th, 1915, at 10.45 p.m., when 336 sets of premises were damaged by 28 incendiary and 21 explosive bombs, which killed 5 people and injured 33. Messrs. Wood & Rozelaar, of 108-109, Great Saffron Hill, Farringdon Road, E.C., paper merchants and printers, suffered as a result of an explosive bomb, the basement and contents being slightly damaged by water, and the roof and the window glass by breakage.

Raid No.4 took place on Wednesday, October 13th, 1915, at 9:47 p.m., when 169 sets of premises were damaged; 33 incendiary and 19 explosive bombs were dropped, 28 people were killed and 79 injured. In this raid the *Morning Post* newspaper offices at 12, Wellington Street, Strand, were hit by an explosive bomb, and the building and the contents were damaged by explosion and dirt. Through two explosive bombs, which dropped in Finsbury Pavement, City, at 10:25 p.m., on a building which was in course of construction, four were killed, and ten seriously injured. Grave damage was caused at Nos. 95 and 97, to the premises of Messrs. A. Mansford and Sons, paper merchants and manufacturing stationers, where the building and the contents were seriously damaged as the result of the explosion. There was no further trade damage reported in this raid.

Raid No.5, took place on Friday, August 25th, 1916, at 1:38 a.m., there having been a complete rest of ten months, when 11 incendiary, and 38 explosive bombs were dropped; 8 people were killed and 34 injured, 163 sets of premises were damaged, but no damage was caused to trade premises; and the same remark applies to Raid No.6, which took place on Sunday, September 24th, 1916, at 12:19 a.m., when 219 sets of premises were damaged, 42 incendiary and 24 explosive bombs were dropped, 24 people were killed and 70 injured. No damage was caused in Raid 7, either, which took place on Tuesday, November 28th, 1916, at 11:37 a.m., when 35 sets of premises were damaged, 6 explosive bombs were dropped, and 8 people were injured, or in raid 8 on Monday, May 7th, 1917, 12:49 a.m., when a solitary aeroplane flew over the West End, dropped 6 explosive bombs, damaged 13 sets of premises, killed one person and injured another. Trade damage was, however, caused in Raid No.9, which took place on Thursday, June 14th, 1917, at 11:36 a.m., when the Huns dropped 39 explosive bombs, 108 people were killed, and 228 injured, whilst 304 sets of premises were damaged. As the result of an explosive bomb which fell at 11:41 a.m., causing

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Studies in Paper History Volume IV:
INDUSTRIAL RELATIONS IN A CRAFT TRADE:
THE ORIGINAL SOCIETY OF PAPERMAKERS 1800–1948
by Jean V. Stirk

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