



ELSEVIER

E-journal Preservation: an STM perspective

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introduction



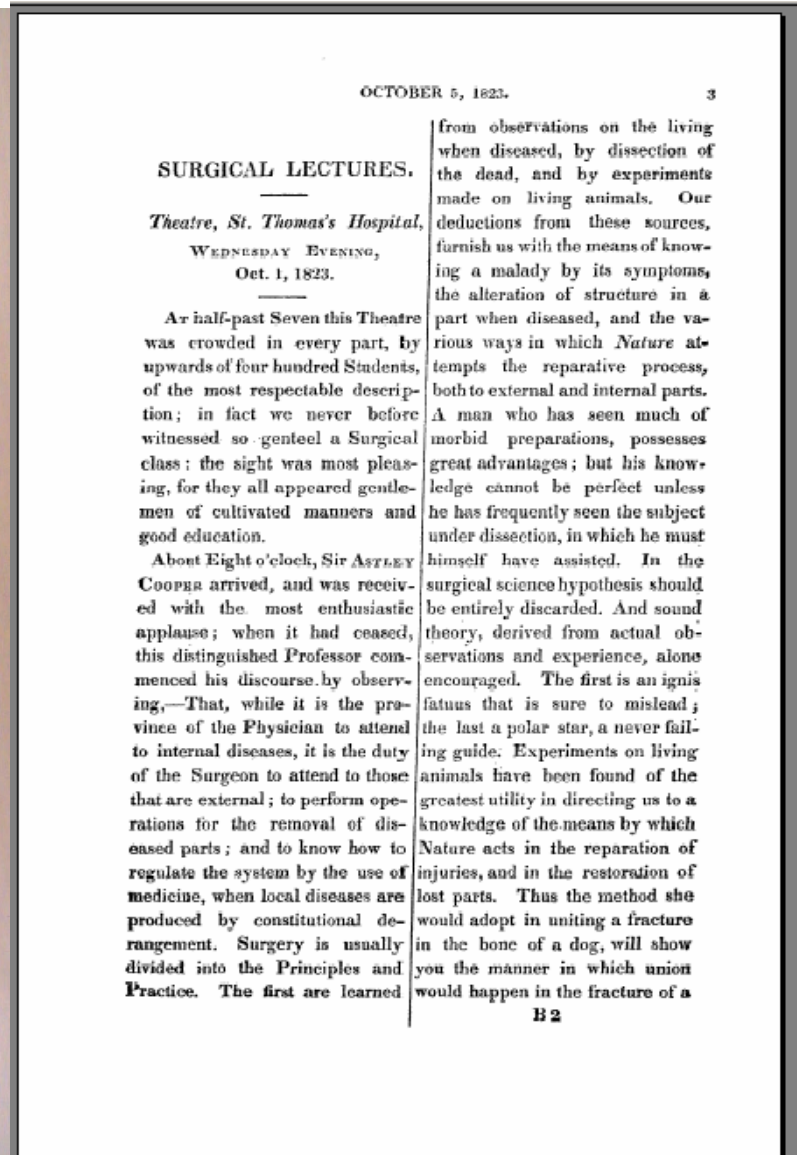
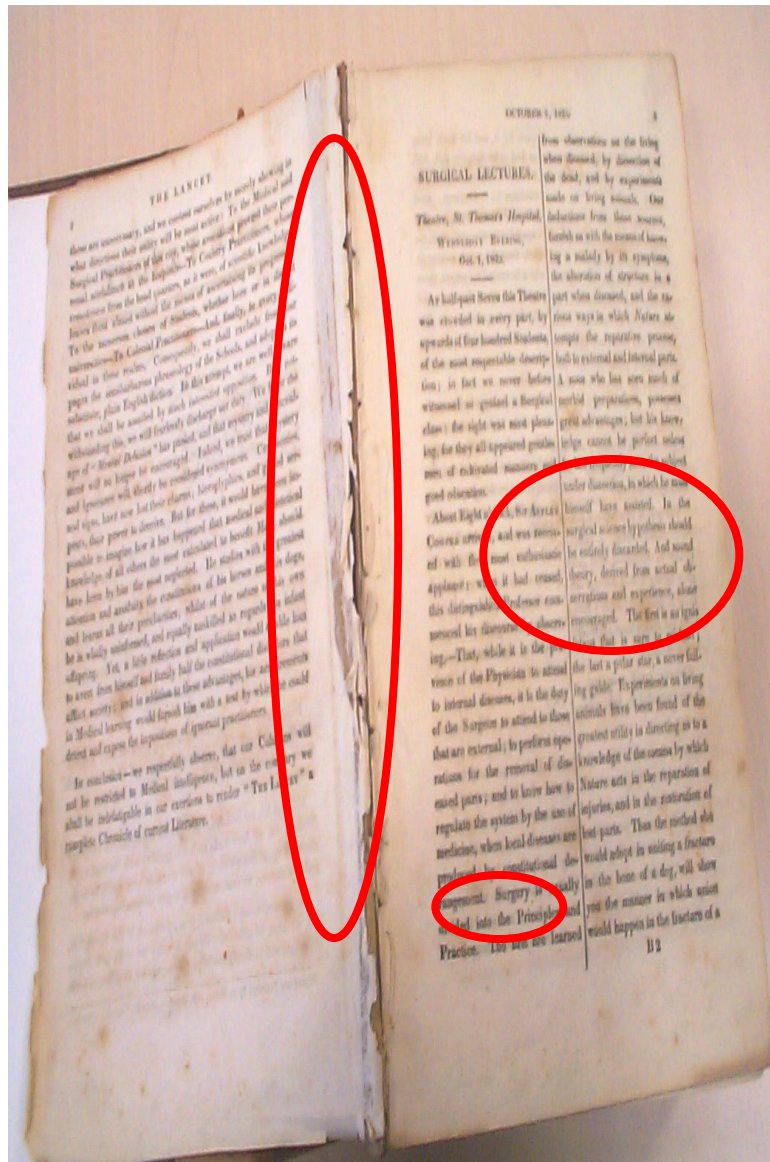
- Elsevier has been a leader in going digital:
 - We invested over EUR 30 million to have all Elsevier journals digitized
 - as Elsevier publishes 25% of all STM articles, this was a major push in overall journal digitization
- In the print world archiving was not part of the publishers brief. In the digital world, publishers, working closely with the academic and national libraries, share these responsibilities. We have solid support from the science community on this: Scientists find long-term preservation of their electronic articles crucially important.
- Elsevier has been the first / leading publisher with all major preservation initiatives:
 1. KB E-depot since 1996
 2. PORTICO since 2005
 3. CLOCKSS since 2006.

Preservation: all journals to Volume 1, Issue 1

For instance: Lancet – going back to 1823



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OCTOBER 5, 1823.

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SURGICAL LECTURES.

Theatre, St. Thomas's Hospital,

WEDNESDAY EVENING,
Oct. 1, 1823.

At half-past Seven this Theatre was crowded in every part, by upwards of four hundred Students, of the most respectable description; in fact we never before witnessed so genteel a Surgical class: the sight was most pleasing, for they all appeared gentlemen of cultivated manners and good education.

About Eight o'clock, Sir ASTLEY COOPER arrived, and was received with the most enthusiastic applause; when it had ceased, this distinguished Professor commenced his discourse by observing,—That, while it is the province of the Physician to attend to internal diseases, it is the duty of the Surgeon to attend to those that are external; to perform operations for the removal of diseased parts; and to know how to regulate the system by the use of medicines, when local diseases are produced by constitutional derangement. Surgery is usually divided into the Principles and Practice. The first are learned

from observations on the living when diseased, by dissection of the dead, and by experiments made on living animals. Our deductions from these sources, furnish us with the means of knowing a malady by its symptoms, the alteration of structure in a part when diseased, and the various ways in which Nature attempts the reparative process, both to external and internal parts. A man who has seen much of morbid preparations, possesses great advantages; but his knowledge cannot be perfect unless he has frequently seen the subject under dissection, in which he must himself have assisted. In the surgical science hypothesis should be entirely discarded. And sound theory, derived from actual observations and experience, alone encouraged. The first is an ignis fatuus that is sure to mislead; the last a polar star, a never failing guide. Experiments on living animals have been found of the greatest utility in directing us to a knowledge of the means by which Nature acts in the reparation of injuries, and in the restoration of lost parts. Thus the method she would adopt in uniting a fracture in the bone of a dog, will show you the manner in which union would happen in the fracture of a

B 2

Elsevier's Digitized Backfiles / E-journals



Elsevier led the establishment of an online, official, trusted third party archive at the Royal Library of the Netherlands.



1st official archive

Developed similar arrangements with other organizations



2nd official archive



3rd official archive

E-journal Preservation Partners

- KB (Koninklijke Bibliotheek) with E-depot program, provides on-site access
- Two archives, exclusive for preservation (no on-site access):
 1. PORTICO
 2. CLOCKSS
- All three preserve
 1. source and
 2. presentation files (rendition archiving)



CLOCKSS

Controlled Lots of Copies Keeps Stuff Safe

- Community approach – small number of designated libraries together with publishers
- will involve about 15 libraries, geographically balanced around the world.
- Aims to provide access after trigger events to anyone (not only to members)
- Does *not* support post-cancellation access
- Covers Elsevier journals (2008+)



PORTICO

- Neutral, dedicated organization that offers libraries a practical, cooperative mechanism to accomplish the preservation mandate that remains embedded in the library.
- Supports post-cancellation access (if publishers allow – most do, Elsevier does)
- Strong publishers participation (in numbers and size)
- KB acts as mirror site
- Equitable business model (libraries and publishers share equally)
- Covers Elsevier's journals (vol. 1+) and e-Books (4400+)

- Major STM (12 today) publishers participate
- Strong reputation in digital preservation
- More than 10 years of experience
- Covers Elsevier journals (vol. 1+)
- Up to today no costs for libraries or publishers (only to Dutch tax payers);
KB intends to develop a sustainable business model (mix of private & public \$)



Trigger events

1. *Post cancellation access:*
PORTICO: Yes (if OK by publisher),
CLOCKSS or E-depot: No
(Elsevier also provides this directly to customer)
2. *E-journal no longer available from publisher.*
All three: Yes
3. *Publisher ceased operation:*
All three: Yes
4. *Catastrophic failure at publisher.*
All three: Yes

Conclusion

- Elsevier has been the leading STM publisher in e-journal preservation, starting even before we launched our e-journal platform
- We strongly support working with neutral, 3rd partners on e-journal preservation. Although Elsevier has expertise (and resources), a community approach is to be preferred to have the trust from all stakeholders: (national and academic) libraries, authors, academic users, publishers.