ARCHEOLOGICAL SOURCES FOR THE
HISTORY OF SCIENCE, TECHNOLOGY, AND MEDICINE
SOME SUPPLEMENTARY REFERENCES

Donald Blackmore WAGNER

The following list covers publications from 1972 to the end of 1977 on topics not discussed in the preceding article. Abbreviations are listed on page

1. Astronomy
   178. Chang Chia-t'AI 张家泰
   登封观星台和元初天文观测的成就
   179. Pan Nai 潘齡
   苏州南宋天文图碑的考释与批判
   180. I Shih-t'ung 伊世同
   量天尺考
   ("Studies on a measure for the sky"). WW, 1978, 2: 10-17. On the gnomon of ca. 1437, considerably modified in 1744, now on display at the Purple Mountain Observatory, Nanking. Discusses earlier Chinese gnomons and metrology.

2. Mathematics and Metrology
   181. 熊汉旗老虎山遗址出土秦代铁权和战国铁器
   182. 广西梧州市近年来出土的几批汉代文物
   (Some Han-period artifacts found in recent years in Wu-chou, Kwangsi). WW, 1977, 2: 70-71. Among the artifacts is a bronze foot-rule.
   183. Yun Hsi-cheng 云希正
   西汉平都犁斛
   ("The Western Han ho [i.e., hu, a measure] with the inscription ‘Li ho’"). WW, 1977, 3: 59-60.
   184. 我国度量衡的产生和发展
   185. Tso Chung-ch'eng 罗忠诚; Lo Hsi-chang 罗世章
   陕西渭南, 扶风出土元至元九年和泰定五年铜权
   (Bronze weights dated 1272 and 1328 found in Wei-nan and Fu-feng, Shensi). WW, 1977, 2: 92-93.
   186. Chou Shih-chung 周世荣
3. Shipbuilding
188. 四川会理出土的一面铜鼓
(A bronze drum found in Hui-li, Szechwan). KK, 1977, 3: 215-216, esp. Figure 3. Pictures of two small boats are inscribed on the drum.

4. Land Transportation
189. 安县西墓遗址调查简报
190. Kuo Su-hsin 郭素新
内蒙古呼和浩特北魏墓
(A Northern Wei tomb at Huhehot, Inner Mongolia). WW, 1977, 5: 38-41, 77, esp. Figure 14: a two-wheeled covered ox-cart.
191. Yang Hung 杨泓
战车与车战
(War chariots and chariot warfare). Ibid., 82-90, 22.
192. Tang Shou-shan 唐寿山
甘肃省武威县黄滩坡东汉墓发现古纸
(“Ancient paper unearthed from the Eastern Han tomb at Han-t’an-p’o, Wuwei County, Kansu Province”). WW, 1977, 1: 59-61. A wooden model of an ox-cart was also found in the tomb.
193. 大葆台西汉木椁墓发掘简报
(“Excavation of the Western Han wooden-chambered tomb at Ta Pao T’ai, Peking”). WW, 1977, 6: 23-29, esp. Plate 4 (2). A large carriage was found in the tomb.
194. 安阳殷墟孝民屯的两座车马坑
195. 安徽六安三十铺隋画像砖墓
(A Sui-period tomb with illustrated tiles at Tung-san-shih-p’u, in Liu-an, Anhwei). KK, 1977, 5: 359-360, esp. Figure 3 (1). A stone-relief picture of a one-horse carriage.
196. 唐阿史那忠墓发掘简报
(Excavation of the T’ang tomb of A-shih-na-chung in Li-ch’üan, Shensi). KK, 1977, 2: 132-133, 80, esp. Plate 10 (i), Figure 1 (1). Wall painting of an ox-cart.
5. Textiles

197. T’ang Chin-yü 唐金裕; Wang Shou-chih 王寿芝

陕西城固县莲花池新石器时代遗址
(A Neolithic site at Lien-hau-ch’ih, in Ch’eng-ku, Shensi). KK, 1977, 5: 351-353, esp. Figure 5: ceramic spindle-whorls.

198. Li Ch’ung-chou 李崇州

我国古代的脚踏纺车

199. 金坛南宋周瑜墓

200. 江苏金坛南宋周瑜墓发掘简报

201. Chao Ch’eng-tse 赵承泽

谈福州、金坛出土的南宋织品和当时的纺织工艺
(The Southern Sung textiles found in Fuchow and Chin-t’an, and the weaving industry of the time). Ibid., 28-32.

202. Kuo Yung-fang

The Art of Weaving
CP, 1976, 6: 42-43.

203. Hsia Nai

Along the Silk Road—More Ancient Silks Found

204. Hsia Nai

Ancient Chinese Silk and the Silk Road

6. Ceramics

205. 四川西昌高枧唐代窑址发掘简报

206. 广东惠州北宋窑址清理简报
(“Excavation of the Northern Sung kiln at Hueichow, Kwangtung”). WW, 1977, 8: 46-56.

207. 福建安溪古窑址调查

208. 河南安阳隋代窑址的发掘

209. Chih-yen 智雁

隋代瓷器的发展
(Development of porcelain in the Sui period). Ibid., 57-62.
210. 纪云南景洪傣族慢轮制陶工艺
(The "slow-wheel" pottery techniques of the Thai people of Ching-hung, Yunnan). KK, 1977, 4: 251-256.
211. Yeh Che-min
Recent Finds of Ancient Pottery and Porcelain
212. The Underglaze-color porcelain of Liling. Ibid., 39-42.

7. Bronze
213. 盘龙城商代二里岗期的青铜器
214. Sun Shan-te 孙善德
莱阳古城发现 汉代钱范
(A Han-period mold for copper coins found at Ku-ch’eng, in Lai-yang, Shantung). WW, 1977, 3: 75-76.
215. 辽宁宁城县黑城古城王莽钱范作坊遗址的发现
216. 四川西昌发现货泉钱范和铜镜
217. 辽阳二道河子石棺墓
(“Excavation of cist tombs at Erh-tao-ho-tzu in Liao-yang”). KK, 1977, 5: 302-305, esp. Figure 2, Plate 3, axe molds.
218. T’ung En-cheng 童恩正
我国西南地区青铜剑的研究
219. Ma Cheng-yuan
Recent Discoveries—The Bronzes of Slave Society
220. Li Hsueh-chin
Ancient Chinese Bronzes

8. Iron and Steel
221. 河南汉代冶铁技术初探
222. 山东省莱芜县西汉农具铁范
223. 河南登封阳城遗址的调查与铸铁遗址的试掘
(“Trial diggings of the sites of Yang-cheng and cast iron workshop in Tengfeng
224. Yang Shih-t’ing 杨式挺
   关于广东早期铁器的若干问题
225. 北京市平谷县发现商代墓葬
226. Liu Yun-ts’ai 刘云彩
   中国古代高炉的起源和发展
227. 郑州古荥铁汉代冶铁遗址发掘简报
(“Excavation of the iron smelting site at ancient Yingchen, Chengchow”). Ibid., 28:43.
228. 从古荥遗址看汉代生铁冶炼技术
(Han-period cast-iron metallurgy in the light of the ancient Yingchen site). Ibid., 44:47, 27.

9. Medicine
229. 江阴县出土的明代医疗器具
230. I-kung 益公
   明代医疗器械的初步考察
(Preliminary examination of the medical instruments of the Ming period). Ibid., 44:47, 43.
See discussion of the corpse of Chou Yü in Item 199, 125-130.

10. Agriculture
231. Chao Feng 趙峰
   江水陶文及其所反映的殷代农业和祭祀
(“The agriculture and sacrificial rites of the Yin dynasty as reflected in the inscriptions on pottery from Ch’ing-chiang, Kiangsu”). KK, 1976, 4: 221-228.
232. Wang Ning-sheng 汪宁生
   撤耕新解
233. Chia Lan-p’o 贾兰坡; Chang Chen-piao 张振标
   河南淅川县下王岗遗址中的动物群
(“The remains of animals found on the site of Hsia-wang-kang at Hsich’uan County, Honan Province”). WW, 1977, 6: 41-49.
234. Yu Hsiu-ling 游修龄
   瓶耳的家世—从河姆渡出土的葫芦种子谈起
(The genealogy of the bottle-gourd: the bottle-gourd seeds found at Ho-mu-tu)’ WW, 1977, 8: 63-64.
235. 江苏省吴县洞庭西山出土一批石器和青铜器
(A group of stone and bronze artifacts found in Wu County, Kiangsu). WW, 1977, 1: 91, esp. Figures 2-3, a stone plowshare.
236. Wang Ta-tao 王大道
云南滇池区域青铜时代的金属农业生产工具
237. 北京顺义白河村东汉墓发掘简报
(Excavation of an Eastern Han tomb at Lin-ho-see'Un, in Shun-i, Peking). KK, 1977, 6: 376-381. Figure 4 is a model showing two men operating a treadle-powered mortar.
238. 河北磁县东阳村东魏墓
(“Excavation of an Eastern Wei tomb at Tung-ch'En Village in Tz'u-hsien, Hopei Province”). Ibid., 392-400, 428. Figure 9 (16) is a model of a treadle-powered mortar.
239. 马王堆汉墓帛书*相马经*释文
(“A transcription of the Han silk manuscript Hsiang ma ching [telling the good points of a horse] unearthed at Mawangtui, Hunan Province”). WW, 1977, 8: 17-22.
240. Hsieh Ch'eng-hsia 谢成侠
关于长沙马王堆汉墓帛书*相马经*的探讨
(Discussion of the Ma-wang-tui manuscript (Hsiang ma ching). Ibid., 23-26.
241. Chang Chen-hsin 张振新
汉代的牛耕
(“Plowing with oxen in the Han dynasty”). Ibid., 57-62.
11. Paper-making
242. Liu Jen-ch'ing 刘仁庆; Hu Yü-hsi 胡玉熹
我国古纸的初步研究
243. P'an Chi-hsing 潘吉星
关于造纸术的起源
244. P'an Chi-hsing
新疆出土古纸研究
245. P'an Chi-hsing
故宫博物院藏若干古代法书用纸之研究
(Studies of the paper used in several ancient specimens of calligraphy preserved in the Palace Museum). WW, 1975, 10: 84-88.
246. P'an Chi-hsing
从出土古纸的模拟实验看汉代造纸技术
247. 对明清时期防蠹纸的研究
(“A study of the specimens of the Ming-Ch’ing moth-proof paper”). Ibid., 47-50.

248. Tang Shou-shan 党寿山
甘肃省武威县旱滩坡东汉墓发现古纸
(“Ancient paper unearthed from the Eastern Han tomb at Han-t’an-p’o, Wu-wei County, Kansu Province”). Ibid., 59-61.

249. Pan Chi-hsing
谈旱滩坡东汉墓出土的麻纸
(On the hemp paper found in the Han tomb at Han-t’an-p’o). Ibid., 62-63.

12. Architecture

250. 敦煌莫高窟北朝壁画中的建筑
(“Ancient architecture depicted in the wall paintings of the Northern Wei caves at the Mokao grottoes of Tunhuang”). KK, 1976, 2: 109-120.

251. 颐和园宫殿及其它铜质建筑构件
(“Trial digging at the Ch’in State Palace remains of Feng-hsiang and some bronze architectural accessories”). Ibid., 121-128.

252. Fu Hsi-nien 併薰年
唐长安明德门原状的探讨

253. 敦煌莫高窟53窟壁画前宋代建筑复原
(“Restoration of the Sung dynasty building in front of grotto no. 53 of the Mokao caves at Tunhuang”). Ibid., 413-421, 412.

254. Great Construction Projects of Ancient China

13. Salt Production

255. P’eng Chiu-sung 彭久松
李芝＊盐井赋＊初探
(On the “Fu on salt wells” of Li Chih [1717-1784]). WW, 1977, 1: 74-79, 16.

256. 南通发现古代煮盐工具——盘铁
(P’an-t’ieh: ancient salt-boiling vessels found in Nan-t’ung, Kiangsu). Ibid., 90-91.

257. Liu Ch’un-yuan 刘春源; Yang I-pi 杨义碧; Li Lien-yin 李连银; Chang Hsueh-ch’un 张学军
我国宋代井盐钻凿工艺的重要革新——四川卓筒井

14. Other

258. 对商代琢玉工艺的一些初步看法

259. Yang Hung 杨弘
... 中国古代的甲胄
(“Studies on the ancient Chinese armour”). KKHP, 1976, 1: 19-44, English

260. Li Ti 李迪

...蒙古族在我国古代科学上的贡献

261. Pien Hsiao-hsuan 卞孝萱

...唐代扬州手工业与出土文物

EDITOR’S ADDENDUM

Since the above contribution was set in type, the outpouring of important scholarship from China on early science, technology, and medicine still appears to be accelerating. Chinese Science will continue to make these publications accessible through annotated bibliographies, surveys of recent literature on particular topics, and reviews of individual books and of especially noteworthy essays. Manuscripts or proposals of all these kinds will be welcomed.

A few very recent publications of exceptional interest that bear on the Hsia and Wagner papers should be mentioned. A revised version of Dr. Hsia’s article has appeared in a collection of his writings, K'ao-ku-hsueh ho k'o chi shih考古学和科技史 (“Essays on archaeology of science and technology in China”; Monographs in Archeology, A14; Peking, 1979). P’an Chi-hsing’s researches on early paper (Wagner, items 243ff) have been supplemented in a splendid work of synthesis, based not only on study of artifacts and textual research but on laboratory work and experiments in papermaking, in Chung-kuo tsao chih chi-shu shih kao中国造纸技术史稿(A draft history of Chinese papermaking techniques; Peking, 1979).

Finally, those curious about the significance of recently excavated medical manuscripts will wish to consult the original and persuasive arguments of two leading Japanese scholars that some of these early texts are precursors of the Huang ti nei ching黄帝内经, and that the contents of the latter evolved and were set down over a long period beginning well into the Han. They have also emphasized that of the three extant versions of the Huang ti nei ching—the Su wen素问, Ling shu靈枢, and T'ai su太素—only the third is a fairly close approximation of the book’s original contents. See Akahori Akira赤堀昭, “Shin shutsudo shiryō ni yoru Chūgoku iyaku koten no minaoshi新出土資料による中国醫薬学の見直し” (Chinese medical classics reconsidered in the light of recently excavated materials), Kampō to rinsō, 1978, 25. 11-12: 1-16, and Yamada Keiji, “The Formation of the Huang-ti Nei-ching,” Acta Asiatica, 1979, 36: 67-89. A less informative summary is given in Akahori, “Medical Manuscripts Found in Han Tomb No. 3 at Ma-wang-tui,” Sudhoff’s Archiv, 1979, 63: 297-301.

An essay review on recent publications concerning the history of Chinese astronomy is scheduled to appear early in 1981 in Archaeoastronomy.