Collection of GMP-documents from the Swedish Pharmaceutical Industry

Lennart Ernerot Ph D, presenter Gunilla Torberger M Sc, Project leader

Swedish Academy of Pharmaceutical Sciences, Section for History of Pharmacy

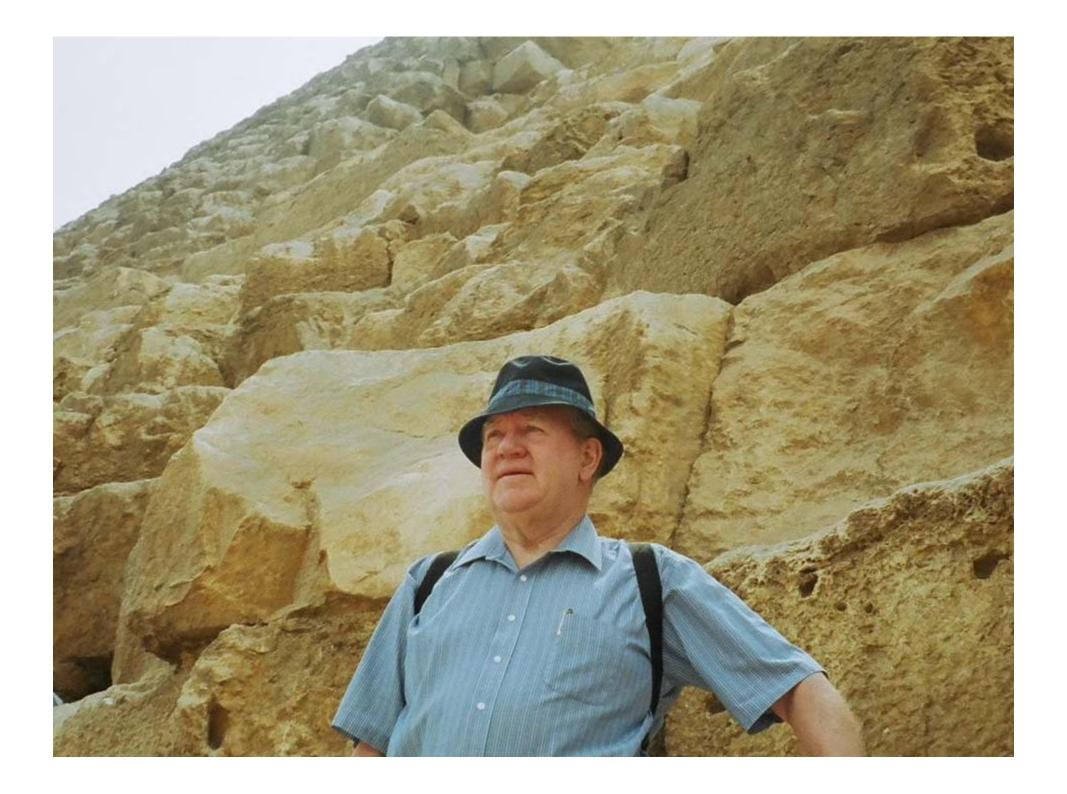
Box 1136, SE-11181 Stockholm Sweden

E-mail: l.ernerot@gmail.com



Can anyone explain how these pyramids were built?









What do the SFINX know?

Can he tell us.....

- Project plans
- Drawings or lay out
- Specifications
- Work plans
- Manufacturing methods
- Material supply
- Labour data
- Machines and equipment

On papyrus from 4600 years ago



Purpose

Establish a historical collection of documents representing the development of manufacturing and quality control for industrial production of pharmaceuticals in Sweden

Objective

- The collection will include examples from different time periods 1940 – 1999

- The records will be catalouged and filed such as to benefit future historical research.

Things to do

- System for filing
 - 2 Excel-files
 - REGISTER
 - MATRIX
- Collect the documents
 - From participating companies
 - From inspection reports
 - From other sources

EU - GMP

- Has got 9 chapters and 18 annexes
- Requirements for documentation
 - Before, During, After manufacture
- Over 100 such requirements
- Capter 4: Good documentation constitutes an essential part of the quality assurance system

Matris 4.
Dokumentation

MATRIX

Dokumenttyp	< 1950	1950- 1959	1960- 1969	1970- 1979	1980- 1989	1990- 1999	Kommentar
4. SOP för upprättande av SOP							
4. SOP dokumentstyrning							
4. Specifikation råvaror							
4. Specifikation							
förpackningsmaterial							
4. Specifikation halvfabrikat							
4. Specifikation bulk						303	
4. Specifikation slutprodukt							
4. Tillverkningsföreskrift							

An Example of a Document

303: 1/2002 PEPTIDE HORMONES 2346 8 6565345 94 03/22 15:52 Pharmacia PURCHASING SPECIFICATION (P.S.) 1(4) 499-446-03/94-03-22 Product Replaces number Two chamber cylinder, boxpacked 499-446-02 Manufacturer/Supplier B. Hjertman, R & D 940324 Tueldrousson I. Fransson, Purchasing Department M. Åslund-Koch, QA QUALITY REQUIREMENTS Manufacturing and control shall be in accordance with requirements in ISO Material The cylinder is to be manufactured from neutral Schott tube glass (without the coloured line) which meets the specification for glass type 1 in Ph Eur, USP XXII and Ph Japan. Colour Colourless. Resistance to water Tested and requirements in accordance with ISO 720. Measurements and tolerances According to Kabi Pharmacia drawing no. 499-446 C. Sampling plan Military Standard 105E level S4 and II is used. Batch classification A batch is understood to mean the number of cylinders that have been manufactured during a set of time period and related to Kabi Pharmacia's Purchasing order. Cylinders manufactured on different lines and shifts must be identified. It shall be possible to trace the tubular glass batch through the batchnr.

Bre.

ID-number

REGISTER

Farm	acihist	oriska sällskapet						
Projek	t: Kvalitet	sdokument/Läkemedelstillv	erkning					
Löpnr	Antal sid	Dokumenttyp enligt matris	Årtal	Företag	Fyndplats	Reg. Dat	Signatur	Kommentar
303	4	4. Specifikation bulk	1994	Pharmacia	LV	20090902	LE	