KOSMOS

JEWELLERY, ADORNMENT AND TEXTILES IN THE AEGEAN BRONZE AGE

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# TABLE OF CONTENTS

 Preface vii  
 Abbreviations ix  

## KEYNOTE ADDRESS

Robert LAFFINEUR  
*For a Kosmology of the Aegean Bronze Age* 3

## I. ASPECTS OF KOSMOS

Elizabeth J.W. BARBER  
*Some Evidence for Traditional Ritual Costume in the Bronze Age Aegean* 25

Jean-Claude POURSAT  
*Of Looms and Pebbles: Weaving at Minoan Coastal Settlements* 31

Andreas VLACHOPOULOS and Fragoula GEORKMA  
*Jewellery and Adornment at Akrotiri, Thera: The Evidence from the Wall Paintings and the Finds* 35

Marie-Louise NOSCH  
*From Texts to Textiles in the Aegean Bronze Age* 43

## II. TEXTILES

Evanthia PAPADOPOULOU  
*Textile Technology in Northern Greece: Evidence for a Domestic Craft Industry from Early Bronze Age Archontiko* 57

Malgorzata SIENNICKA  
*Textile Production in Early Helladic Tiryns* 65

Vassilis P. PETRAKIS  
*‘Minoan’ to ‘Mycenaean’: Thoughts on the Emergence of the Knossian Textile Industry* 77

Maria Emanuela ALBERTI, Vassilis L. ARAVANTINOS, Maurizio DEL FREO, Ioannis FAPPAS, Athina PAPADAKI and Françoise ROUGEMONT  
*Textile Production in Mycenaean Thebes. A First Overview* 87

Marta GUZOWSKA, Ralf BECKS and Eva ANDERSSON STRAND  
*“She was weaving a great Web”. Textiles in Troy* 107

Margarita GLEBA and Joanne CUTLER  
*Textile Production in Bronze Age Miletos: First Observations* 113

Peter PAVÚK  
*Of Spools and Discoid Loom-Weights: Aegean-type Weaving at Troy Revisited* 121

Richard FIRTH  
*The Textile Tools of Demircihüyük* 131
<table>
<thead>
<tr>
<th>Author/Co-author</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sascha MAUEL</td>
<td>Summarizing Results of a New Analysis of the Textile Tools from the Bronze Age Settlement of Kastanas, Central Macedonia</td>
</tr>
<tr>
<td>Joanne CUTLER</td>
<td>Ariadne’s Thread: The Adoption of Cretan Weaving Technology in the Wider Southern Aegean in the Mid-Second Millennium BC</td>
</tr>
<tr>
<td>Carlos VARIAS</td>
<td>The Textile Industry in the Argolid in the Late Bronze Age from the Written Sources</td>
</tr>
<tr>
<td>Trevor VAN DAMME</td>
<td>Reviewing the Evidence for a Bronze Age Silk Industry</td>
</tr>
<tr>
<td>Brendan BURKE</td>
<td>Looking for Sea-Silk in the Bronze Age Aegean</td>
</tr>
<tr>
<td>Vili APOSTOLAKOU, Thomas M. BROGAN and Philip P. BETANCOURT</td>
<td>The Minoan Settlement on Chryssi and its Murex Dye Industry</td>
</tr>
<tr>
<td>Philip P. BETANCOURT, Vili APOSTOLAKOU and Thomas M. BROGAN</td>
<td>The Workshop for Making Dyes at Pefka, Crete</td>
</tr>
<tr>
<td>Thomas M. BROGAN, Philip P. BETANCOURT and Vili APOSTOLAKOU</td>
<td>The Purple Dye Industry of Eastern Crete</td>
</tr>
<tr>
<td>Helène WHITTAKER</td>
<td>Some Reflections on the Use and Meaning of Colour in Dress and Adornment in the Aegean Bronze Age</td>
</tr>
<tr>
<td>Pietro MILITELLO</td>
<td>Textile Activity in Neolithic Crete: the Evidence from Phaistos</td>
</tr>
<tr>
<td>Eva ANDERSSON STRAND</td>
<td>From Spindle Whorls and Loom Weights to Fabrics in the Bronze Age Aegean and Eastern Mediterranean</td>
</tr>
<tr>
<td>Sophia VAKIRTZI</td>
<td>Akr 8794: A Miniature Artifact from Akrotiri, Thera, and the “Whorl or Bead” Question in Light of New Textile Evidence</td>
</tr>
<tr>
<td>Bernice JONES</td>
<td>The Construction and Significance of the Minoan Side-Pleated Skirt</td>
</tr>
<tr>
<td>Janice L. CROWLEY</td>
<td>Prestige Clothing in the Bronze Age Aegean</td>
</tr>
<tr>
<td>Joanna S. SMITH</td>
<td>Tapestries in the Mediterranean Late Bronze Age</td>
</tr>
<tr>
<td>Abby LILLETHUN</td>
<td>Finding the Flounced Skirt (Back Apron)</td>
</tr>
<tr>
<td>Valeria LENUZZA</td>
<td>Dressing Priestly Shoulders: Suggestions from the Campstool Fresco</td>
</tr>
<tr>
<td>Eleni KONSTANTINIDI-SYVRIDI</td>
<td>A Fashion Model of Mycenaean Times: The Ivory Lady from Prosymna</td>
</tr>
<tr>
<td>Title</td>
<td>Author</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>The Background of Mycenaean Fashion: a Comparison between Near Eastern and Knossos Documents on Sheep Husbandry</td>
<td>Alessandro GRECO</td>
</tr>
<tr>
<td>Textiles for the Gods? Linear B Evidence for the Use of Textiles in Religious Ceremonies</td>
<td>Joann GULIZIO</td>
</tr>
<tr>
<td>Gender Dimorphism in the Linear A and Linear B Tablets</td>
<td>Jörg WEILHARTNER</td>
</tr>
<tr>
<td>Do Clothes Make the Man (or Woman?): Sex, Gender, Costume, and the Aegean Color Convention</td>
<td>Anne P. CHAPIN</td>
</tr>
<tr>
<td>Economic Aspects of Textiles from the Egyptian Standpoint, in the Context of the Ancient Near East</td>
<td>David A. WARBURTON</td>
</tr>
<tr>
<td>Some Textile Patterns from the Aegean Wall-Paintings of Tell el-Dab’a (‘Ezbet Helmi): Preliminary Reconstructions and comparative Study</td>
<td>Katherina ASLANIDOU</td>
</tr>
<tr>
<td>Cut from the Same Cloth: The Textile Connection between Palace Style Jars and Knossian Wall Paintings</td>
<td>Emily Catherine EGAN</td>
</tr>
<tr>
<td>Body Marks and Textile Ornaments in Aegean Iconography: Their Meaning and Symbolism</td>
<td>Fritz BLAKOLMER</td>
</tr>
<tr>
<td>Remarks on Female Attire of Minoan and Mycenaean Clay Figures</td>
<td>Elisabetta BORGNA</td>
</tr>
<tr>
<td>Mycenaean “Ear pick”: A Rare Metal Burial Gift, Toilette or Medical Implement?</td>
<td>Eleni SALAVOURA</td>
</tr>
<tr>
<td>Pins and Buttons in Late Minoan III Dresses?</td>
<td>Birgitta P. HALLAGER</td>
</tr>
<tr>
<td>Reflections on the Symbolic Meaning of the Olive Branch as Head-Ornament in the Wall Paintings of Building Xesté 3, Akrotiri</td>
<td>Ute GÜNCEL-MASCHEK</td>
</tr>
<tr>
<td>Bodily Adornment in the Early Bronze Age Aegean and Near East</td>
<td>Cynthia COLBURN</td>
</tr>
<tr>
<td>How to see the Minoan Signet Rings. Transformations in Minoan Miniature Iconography</td>
<td>Evangelos KYRIAKIDIS</td>
</tr>
<tr>
<td>Identity and the Visual Identification of Seals</td>
<td>Julie HRUBY</td>
</tr>
<tr>
<td>Raw Material, Exotic Jewellery or Magic Objects? The Use of Imported Near Eastern Seals in the Aegean</td>
<td>Konstantinos KOPANIAS</td>
</tr>
<tr>
<td>Dressing Up the Dead. The Significance of Late Helladic IIIB Adornments from Eleona and Langada at Kos</td>
<td>Salvatore VITALE</td>
</tr>
<tr>
<td>Authors</td>
<td>Title</td>
</tr>
<tr>
<td>---------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Petya HRISTOVA</td>
<td>Overlaying Mycenae’s Masks in Funerary and Living Contexts of Symbolic Action: Jewellery for Body Adornment, Portraits, or Else?</td>
</tr>
<tr>
<td>Judit HAAS-LEBEGYE</td>
<td>Constructions of Gendered Identity through Jewellery in Early Mycenaean Greece</td>
</tr>
<tr>
<td>Maia POMADERE</td>
<td>Dressing and Adorning Children in the Aegean Bronze Age: Material and Symbolic Protections as well as Marks of an Age Group?</td>
</tr>
<tr>
<td>Robert Angus K. SMITH and Mary K. DABNEY</td>
<td>Children and Adornment in Mycenaean Funerary Ritual at Ayia Sotira, Nemea</td>
</tr>
<tr>
<td>Lena PAPAZOGLOU-MANIOUDA</td>
<td>Gold and Ivory Objects at Mycenae and Dendra Revealed. Private Luxury and/or Insignia Dignitatis</td>
</tr>
<tr>
<td>Jeffrey S. SOLES</td>
<td>The Symbolism of Certain Minoan/Mycenaean Beads from Mochlos</td>
</tr>
<tr>
<td>Walter MÜLLER</td>
<td>Concepts of Value in the Aegean Bronze Age: Some Remarks on the Use of Precious Materials for Seals and Finger Rings</td>
</tr>
<tr>
<td>Anastasia DAKOURI-HILD</td>
<td>Making La Différence: The Production and Consumption of Ornaments in Late Bronze Age Boeotia</td>
</tr>
<tr>
<td>Jacke PHILLIPS</td>
<td>On the Use and Re-Use of Jewellery Elements</td>
</tr>
<tr>
<td>Dora CONSTANTINIDIS and Lilian KARALI</td>
<td>Floral or Faunal? Determining Forces on Minoan and Mycenaean Jewellery Motif Selection with a GIS</td>
</tr>
<tr>
<td>Magda PIENIĄŻEK</td>
<td>Luxury and Prestige on the Edge of the Mediterranean World: Jewellery from Troy and the Northern Aegean in the 2nd Millennium B.C. and its Context</td>
</tr>
<tr>
<td>Ann-Louise SCHALLIN</td>
<td>Mycenaean Jewellery and Adornment at Midea</td>
</tr>
<tr>
<td>Thanasis J. PAPADOPOULOS and Liitsa KONTORLI-PAPADOPOULOU</td>
<td>Specific Types of Jewellery from Late Bronze Age Tombs in Western Greece as Evidence for Social Differentiation</td>
</tr>
<tr>
<td>Jane HICKMAN</td>
<td>Gold and Silver Jewelry Production in Prepalatial Crete</td>
</tr>
<tr>
<td>Elisabeth VÖLLING, Nicole REIFARTH and Jochen VOGEL</td>
<td>The Intercultural Context of Treasure A in Troy - Jewellery and Textiles</td>
</tr>
<tr>
<td>Naya SGOURITSA</td>
<td>Remarks on Jewels from the Mycenaean Settlement and Cemetery at Lazarides on Eastern Aegina</td>
</tr>
<tr>
<td>Constantinos PASCHALIDIS</td>
<td>Reflections of Eternal Beauty. The Unpublished Context of a Wealthy Female Burial from Koukaki, Athens and the Occurrence of Mirrors in Mycenaean Tombs</td>
</tr>
</tbody>
</table>
TABLE OF CONTENTS

Elizabeth SHANK  
_The Jewelry worn by the Procession of Mature Women from Xeste 3, Akrotiri_  559

Helena TOMAS  
_Alleged Aegean Jewellery from the Eastern Adriatic Coast_  567

**IV. ADORNMENT**

Carole GILLIS  
_Color for the Dead, Status for the Living_  579

Marcia NUGENT  
_Natural Adornment by Design: Beauty and/or Function? Botanic Motifs of the Bronze Age Cycladic Islands_  589

Anna SIMANDIRAKI-GRIMSHAW and Fay STEVENS  
_Adorning the Body: Animals as Ornaments in Bronze Age Crete_  597

Vassiliki PLIATSIKA  
_Simply Divine: the Jewellery, Dress and Body Adornment of the Mycenaean Clay Female Figures in Light of New Evidence from Mycenae_  609

Eugenio R. LUJÁN and Alberto BERNABÉ  
_Ivory and Horn Production in Mycenaean Texts_  627

Josephine VERDUCI  
_Wasp-waisted Minoans: Costume, Belts and Body Modification in the Late Bronze Age Aegean_  639

Angelos PAPADOPoulos  
_Dressing a Late Bronze Age Warrior: The Role of ‘Uniforms’ and Weaponry according to the Iconographical Evidence_  647

Mary Jane CUYLER  
_Rose, Sage, Cyperus and e-ti: The Adornment of Olive Oil at the Palace of Nestor_  655

Louise A. HITCHCOCK  
_Dressed to Impress: Architectural Adornment as an Exotic Marker of Elite Identity in the Eastern Mediterranean_  663

Karen Polinger FOSTER  
_The Adornment of Aegean Boats_  673

Cynthia W. SHELMERDINE  
_Mycenaean Furniture and Vessels: Text and Image_  685

Thomas G. PALAIMA  
_Kosmos in the Mycenaean Tablets: the Response of Mycenaean ‘Scribes’ to the Mycenaean Culture of Kosmos_  697

Annette Højen SØRENSEN  
_A Toast to Diplomacy! Cups in Diplomacy and Trade: the Case of Minoica in Cyprus and the Levant, 2000-1500 BC_  705

Iphiyenia TOURNAVITOU  
_Fresco Decoration and Politics in a Mycenaean Palatial Centre: The Case of the West House at Mycenae_  723

Maria C. SHAW  
_Shields made of Cloth? Interpreting a Wall Painting in the Mycenaean Palace at Pylos_  731
<table>
<thead>
<tr>
<th>Authors</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Olga KRZYSZKOWSKA</td>
<td>Worn to Impress? Symbol and Status in Aegean Glyptic</td>
<td>739</td>
</tr>
<tr>
<td>John G. YOUNGER</td>
<td>Mycenaean Collections of Seals: The Role of Blue</td>
<td>749</td>
</tr>
<tr>
<td>Nancy R. THOMAS</td>
<td>Adorning with the Brush and Burin: Cross-Craft in Aegean Ivory, Fresco, and Inlaid Metal</td>
<td>755</td>
</tr>
<tr>
<td>Anaya SARPAKI and Melpo SKOULA</td>
<td>Case Studies of the Ethnobotany of Adornment and Dyeing in Crete: Insights for a Dialogue with Archaeological Models in Greece</td>
<td>765</td>
</tr>
<tr>
<td>Caroline ZAITOUN</td>
<td>The “Immanent” Process of Cosmetic Adornment. Similarities between Mycenaean and Egyptian Ritual Preparations</td>
<td>789</td>
</tr>
<tr>
<td>Katherine M. HARRELL</td>
<td>The Weapon’s Beauty: A Reconsideration of the Ornamentation of the Shaft Grave Swords</td>
<td>799</td>
</tr>
<tr>
<td></td>
<td><strong>“QU’IL EST PERMIS DE RIRE ...”</strong></td>
<td></td>
</tr>
<tr>
<td>Thomas G. PALAIMA</td>
<td>KO Ko 2010 Cloth Fragments of the Rapinewiad</td>
<td>807</td>
</tr>
</tbody>
</table>
KOSMOS IN THE MYCENAEAN TABLETS:  
THE RESPONSE OF MYCENAEAN ‘SCRIBES’  
TO THE MYCENAEAN CULTURE OF KOSMOS

It has not gone unnoticed by scholars who concentrate on the work of Mycenaean scribes (we now have come to prefer the more appropriate term ‘tablet-writers’) and how they record information on their texts that they have what we might call aesthetic sensibilities, or an appreciation of style and beauty, that is expressed most conspicuously in the kosmos of their tablets.  

The job of tablet-writers was a specialized occupation. They were operating in a predominantly oral culture, where information would be retained primarily as Herodotus retained it nearly eight centuries later—in memory and orally. For example, Herodotus 7.224 tells us that he learned the names of all three hundred of the Spartans who died at Thermopylae, each one of them having achieved the distinction of being an ἄνὴρ ἄριστος.

The Linear B tablets, in their recording of personal names, in some ways mimic the simplicity of later Spartan tombstones (Pl. CLIXa). But even in the simple grave inscription we use here as an example, we see a characteristic Greek tendency toward orderly presentation: through the anaphoric ἐν that begins lines 2 and 3 and its stoichedon orientation with the epsilon and upsilon of the personal name Eualkês in line 1:

Eualkês
in war
in Mantinea

This same instinct shows itself in some Linear B tablet-writers in an almost calligraphic elegance in their handwriting and in their sensitivity to the overall appearance and arrangement of their final texts.

This is noteworthy because we have put to rest, I believe, the old notion that any of the clay-tablet inscriptions had contents that were important enough to require what we would call ‘fair-copy’ texts. Given that most texts were designed for future reference by the tablet-writers themselves or others who knew the general information parameters of texts on particular topics, the tablet-writers were at liberty to have bad handwriting and even to arrive at end results for information-entry that would strike outside observers as somewhat disordered.

For this we can use PY Tn 316 as a ‘poster child’ (Pl. CLIXb). It is then all the more

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striking that in the late Mycenaean palatial period on the mainland, and notably at Pylos, tablet-writers, with no compelling public social motives for emphasizing or maximizing kosmos, reach a zenith of elegant and streamlined execution of signs and meticulously organized formats of information.

At the Aegeaum EIKΩN conference, I discussed how the Mycenaean tablet-writers might have been influenced by their surroundings (especially by looking at frescoes) in the process of drawing ideograms (I chose as an example deer) upon the tablets. Ruth Palmer is now in the process of taking this work further where deer are concerned. I also discussed the artistic qualities of scribal doodles.

Here I want to take up what we can say from the evidence of the tablets and the social and political environments in which the writers of the tablets worked about what kosmos entails in the Mycenaean period and how the Mycenaean tablet-writers developed a sense of kosmos. There had to be social conditions that sensitized tablet-writers to develop also their repertory of descriptive terms relating to the kinds of items that are manufactured and used in elite environments. Human beings are drawn to beauty. This is a basic instinct for as long as we know about them, i.e., about us, too, who still are subject to this impulse.

Cynthia Shelmerdine focuses in her paper on the fascinating details of what the scribes chose to record about specific items of artistic value. Here I discuss more general considerations.

It is true that the repertory of descriptive terms in the Linear B texts is limited by the relatively banausic nature of the tasks the tablet-writers are performing. They are not writing, after all, for a museum guide, a connoisseur magazine or art history journal. Their aim is to keep track of objects by identifying, grouping or differentiating them in unique ways and doing so in ways that keep their texts brief and to-the-point and keep their tablets, which have to be stored at least temporarily, compact and economical with regard to space. Still they have freedom in choosing how to describe the color, size, shape, materials, and details of specific items. In so doing they might have revealed or even developed their own artistic tastes.

We are also somewhat limited in what we can say, because the surviving texts are concerned with the large-scale picture and the impersonal item. Even when a vase (for example, a qe-ra-na on PY Ta 711) is described as wa-na-se-wi-ja (pertaining to the wanasseus, or official attendant on the wanassa and her activities and affairs), it is in the context of a general inventory of ritual paraphernalia, some clearly heirlooms, and not items connected with a specific wanassa or her specific wanasseus, at a particular time and place.

Our records therefore do not reflect the tastes and desires that the wanassa and wanasseus, at the time the Ta tablets were written and preserved in late LH IIIB, had in commissioning or wanting to acquire, retain and use such an object. They do reflect an antiquarian instinct of sorts, but this is likely to be based on broader social instincts and necessities, e.g., the veneration of traditional cultic paraphernalia, the rarity of objects of an out-of-date style, and even the relative scarcity of crafts personnel and raw materials.

vacant..., "in E. RISCH and H. MÜHLESTEIN (eds), Colloquium Mycenaenum (1979) 221-234, give his clear and detailed explanation of the textual history of Tn 316 and how it was ruled, laid out and written section-by-section and line-by-line by a single scribe, may have been remiss not to offer objections. The late John Chadwick, in fact, after Bennett’s paper (p. 234), explicitly commented that the complicated textual history of PY Tn 316 “can only be due to uncertainty on the part of the scribe about the exact form of his text.” It is also possible that their cumulative errors were perpetuated by me in Scribes of Pylos (1988), and in 1995 (published 1999) when I treated at length the entire textual and interpretative history of Tn 316, from Michael Ventris, pre-decipherment, onward, again in the presence of experts in the Aegean scripts per se, like Godart, Bennett, Olivier, Duhoux and Driessen. Godart does not treat any of these works and their arguments; nor does he consider the factors that cause variations of sign forms within individual scribal hands, especially when tablet-writers are writing lengthy texts or a series of many texts, or when they are writing repeatedly particular signs within texts or series, or when they are writing, as Bennett suggested, with some interruption in their work. Nor does Godart discuss how the irregular surfaces of the faces of tablet Tn 316 might influence how a scribe writes his signs. So caution is urged until PY Tn 316 can be thoroughly restudied.


5 See Pylos tablet Ta 711, where two qe-ra-na that are designated as wa-na-se-wi-ja are recorded. Also recorded is one qe-ra-na that is identified as a-no-te-wi-ja (of the "harmoteus‘ the person who is involved with the "joined item", i.e., most likely the ‘supervisor’ vel sim. of chariot wheel and chariot manufacture.
We have no surviving texts describing something like the famous collection of non-Aegean seals from Thebes or individual items of personal clothing or adornment, such as wrist seals or necklaces or individual garments.

By looking at how tablet-writers make references to color, decorative motifs and the materials of which objects are made, we might be able to determine to what degree they, as individuals, were satisfied with generic vs. specific terms or used variation in terminology that would reflect eyes trained for the particular, a sine qua non in connoisseurship.

But it is also important to try to reconstruct the visual environment and overall organizational ambience that would have conditioned the responses of tablet-writers to physical objects.

At the Aegaeum EPOS and DAIS conferences, I have tried to argue for a positive vision of the Mycenaean palatial system and what it was able to achieve within the limited resources available to the Mycenaeans in the territorial environments of the Greek mainland. A key part of understanding what the Mycenaeans were able to accomplish in the 14th and 13th centuries BCE is the self-conception of the palatial elites (wanax, lâwageles), regional aristocrats (collectors) and village ‘big men’ (basileîwes) as they organized and maximized the human and material resources of this region, which in historical times was something of a backwater, exploited by the Spartans mainly as a ‘bread basket’ for agricultural produce. The Mycenaeans who ran the region in LH IIIB locally and at the palatial center conceived of themselves as bringing sustenance to the general populations under their control. This is reflected in the vocabulary relating to the administrative agents and officials of the palace (korêtêr, prokorêtêr, dâmokoros) as providing ‘satisfaction’ (the *kor- root) within palatial provinces and the sub-regions controlled by second-order centers.

kosmos itself does not show up in the Mycenaean lexicon, perhaps not surprisingly given that its use to designate an official or magistrate, the kind of lexical item that might show up in the Linear B texts, is confined to archaic Crete.

The root of kosmos is, however, attested as an element in Mycenaean Greek personal names, most conspicuously ko-sa-ma-to in the Pylos landholding documents (Eb 905. A and Ep 212.8) as a landholder who is a te-o-jo do-e-ro = ‘servant (honorable no doubt) of the deity’ and on a Knossos text listing what appears to be a distribution of coriander seed (Ga 685). The standard interpretation of this form as from a verbal adjective as *Kònsamos (cf. later Greek kosmopotês) is problematical because the eta in the historical Greek form derives from an epsilon in the denominative verb ko-sâme. For the basic noun kosmos, R. Beekes (Etymological Dictionary of Greek [2010], 759-760) prefers the reconstruction from Indo-European *kens- ‘order’ with *koNS-mo-, related to Latin censèo ‘to estimate’, having an original meaning of ‘to put in order (by speaking)’, and a secondary development in Greek of ‘adorn’ and ‘adornment’.

The Linear B texts also are lacking specific descriptions of items of personal jewelry, so we do not have the word attested in a true early semantic specialization: ornament or decoration, especially of women (Homer, Iliad 14.187; Hesiod, Works and Days, 76), but also of horses (Homer, Iliad 4.145).

Hesiod WD 72-76 (I intentionally use a cumbersome literal translation for the noun and verbal forms of kosmos) in discussing the creation of Pandora by the gods reads as follows:


7  JEFFERY (supra n. 2) 309-313, Crete plate 59, 1a Dreros and 2 Gortyn.

Goddess gray-eyed Athene girded and set her in order
And around her goddess Graces and mistress Persuasion
set golden necklaces upon her skin; And round about her
the beautiful-haired Seasons set a crown with springtime flowers;
And Pallas Athene fastened to her skin every orderly adornment.

It should be noted that in *Iliad* 17.210 the same formula as in *WD* 76 is used of fastening τεύχεα (armor) upon the skin of Hector.

*Iliad* 4.141 is the famous passage where the blood staining Menelaus’ wounded thighs is likened to the cheek pieces of horses, made of ivory, that are specially stained with purple decoration by Maeonian and Carian women specialists. We are told that such special pieces are desired by many horsemen. But they cannot acquire the piece of resplendent artistic beauty because:

> II. 4.144-5: βασιλῆι δὲ κεῖται ἄγαλμα ἀμφότερον κόσμος ϑ᾽ ἵππῳ ἐλατῆρί τε κῦδος
it is stored up for a king as an honorific object of delight
at one and the same time an adornment for a horse and a mark of public praise for his rider.

It is fair to say that the early meanings of *kosmos* “ordre, bon ordre” (Chantraine, s.v., already found in Homer) and “Ordnung, Anstand” (Frisk, s.v., already in the *Iliad*) had not yet developed into the later sense of “political arrangement or system, government, even constitution (Spartan)” found in Thucydides (4.76, 8.48, 8.67, 8.72) and Herodotus (1.65).

The root of *kosmos* is unclear, with suggestions of the following range:

(1) κεδνός ‘careful, diligent, trusty’ (cf. κήδομαι) and already found applied to the ἄναξ in *Odyssey* 14.170 and, at the other end of the social scale, an ἀμφίπολος in *Odyssey* 1.335. This first etymology for *kosmos* stresses the meticulous care and reliability with which a person does things. Think of how this would be applied to specialist crafts personnel and political actors and other social agents in the Mycenaean period. In Homer it can be used as a quality of an august king or an attendant who puts household or personal effects in order.

(2) Latin censeo ‘to tax, assess, rate, estimate’ with the related meaning of putting property and persons into appropriate *census* classes. We can see clearly how this would be appropriate to the kind of state organization the palatial system imposed. The land documents (series *E*) and regional taxation documents (series *Ma*) pay painstaking attention to evaluating the exact level of what we might call tax obligation required of *o-na-to* (beneficia) holders and districts and their capital centers respectively. The Greek form would come from *κόνσμος*, which Chantraine considers “le rapprochement le moins improbable.”

This preferred etymology would fit the kind of orderly structures that the palatial system imposes on human and natural resources and the features of economic and political arrangement that make the overall palatial system work.

(3) from *χόθμος* from Indo-European ghodh- ‘vereinigen, eng verbunden sein.’

This etymology suits the control and organization the palatial system imposes by virtue of being able to assess abilities and resources, obligations and benefits and then unite closely persons and disparate geographical, social and political groups and units into cooperative and cohesive wholes.

In many ways the Mycenaean palatial territories are all about the imposition of *kosmos* understood in what must have been its root sense of ‘orderly and culturally acceptable and identifiable (decorous) arrangement.’ The geographical organization of the palatial territories,
whether militarily, politically or economically, would have used order to maximize stability and productivity.

The kosmos of the Mycenaean palatial system would have been conspicuous in its hierarchy of social units that controlled human activity and resources. The different social and settlement units make up the fundamental framework:

- ra-wa-ke-si-ja = lāwagesiā (as securely restored on KN As 1516) an organization responding to the authority of the lāwagetās;
- ke-ro-si-ja = geronsia = later gerousia (PY An 261.2-.17 and v. 1.1-2) councils of elders operating at the village level and organizing and mobilizing labor and the exploitation of other resources;
- qa-si-re-wi-ja = g"asilewisā (KN As 1516.12, PY Fn 50.1-.3 and Fn 867.3) bodies either made up of g"asilewes or led by one of them in local village areas;
- da-mo = dāmos (passim) bodies at the local community level that see to the distribution (as is etymologically clear) of land allotments for usufruct;
- po-to-ri = ptolis (in personal names po-to-ri-jo and po-to-rika-ta) the ‘city’ as it would be conceived and defined in the Mycenaean palatial period;
- wa-tu = wastu (PY Tn 316 v. line .1 and KN V 114.b; and personal names wa-tu-o-ko = wastuhokhos and wa-tu-o = *wastuōn) the ‘town’ as it would be conceived and defined in the Mycenaean palatial period;
- i-je-ro = hieron (at least by implication) the sacred precinct;
- na-ki-po > nāwos ‘dwelling place of the deity’;
- do-de (with do- [cf. the root of the Greek verb δέω, ‘construct in layers’] = ‘the built room, hall’, cf. later domos);
- wo-ko-de (woikos) ‘to the house’, i.e., the social group that defines the oikos in this period;
- meka-ro (megaron) to the megaron or central hearth/throne room;

and so forth.

In Messenia, the architecturally sophisticated and decoratively refined central Palace of Nestor no doubt stood as a magnificent memorial to the ability of the wanax, the lāwagetās, and the regionally cooperating power figures, institutions and settlements to maintain productive and edifying order and control. Imagine living in a smaller settlement during this period. An inhabitant of a small town in LH IIIB Messenia on a daily basis would have been accustomed to what was architecturally simple, irregular, small, drab and functional, with houses built mostly out of local materials that lay to hand. Their environs (housing, furniture, clothing, diet, instruments of daily life) would have produced a form of monotonous sensory deprivation, relieved mainly on occasions when it was possible to attend ceremonies at higher-order centers in their districts. If their lives had some respite from being “solitary, poor, nasty, brutish, and short,” it was because of the central palaces. On some occasions several thousand people could gather at Pylos proper and participate in feasting and related rituals there.

Imagine approaching and eventually entering the palatial center. Imagine its straight-lined external appearance and the regularity of form and decoration in the interior, combined with its rich profusion of colors and decorative patterns, all created by specialized professional builders and decorators using specially chosen non-local materials and coloring agents. Such an experience would have been overwhelming for a visitor from the periphery of the kingdom, and a clear demonstration that all was right with the authority of the palatial rulers. Individual inhabitants of Messenia in the late 13th century B.C.E. who were fortunate enough to participate in such ceremonies, when they returned home, would tell stories of their experiences within their families and clans and local social units.

The degree of organization and order needed to monitor particular economic spheres
at Mycenaean Pylos is also well known and reveals the remarkable advance in systematized structuring of information and information categories over earlier phases of record-keeping, both in Linear A texts and in Knossos tablets from the Room of the Chariot Tablets. The laying out of information upon the texts in a manner that is a forerunner of later Greek alphabetic stoichedon inscriptions is a truly remarkable manifestation of kosmos.

We use three examples:

(1) the Eleusis inscribed stirrup jar (Pl. CLIXc); its painted inscription is a clear example of how the orderliness of tablets affects its layout, so far unique among isj’s.

(2) PY Cn 608 (Pl. CLIXd) shows us that the instinct for order manifests itself even in simple texts; this one comes from a palatial context and deals with the nine major centers of the Hither Province; it records fatted pigs associated with those centers and designates them as ‘to be fattened.’

(3) PY Jn 829 (Pl. CLXa), the famous bronze recycling text, represents what might be the pinnacle of systematic order, seen best in its structural layout as analyzed by John Bennet.

We should not think that, given the information, communication and travel technologies of the period, it was a simple or even short-term matter to achieve this level of kosmos within the polity of LH IIIB Messenia (Pl. CLXb). The palatial center at Pylos during the LH IIIA and B periods had unified 50,000-100,000 people and ca. 250 settlements over an area of roughly 2,000 square kilometers. This area was not easy to control. It was divided by ridges and mountains and presented a long coastline exposed to a hostile world of pirates, raiders and foreign navies.

Nor was it a small achievement within the written records to keep track of all the data necessary to help impose orderly arrangement and structure on the interlinking systems, economic, social and political, that enabled the Messenian palatial polity to operate efficiently, survive and thrive.

My last figure, from the twentieth century, reminds us how difficult it is even to acquire command of the streamlined Roman alphabet, much rather the complex Linear B script and all of the tricks of information recording and presentation that experienced tablet-writers used.

We see here a famous photograph (Pl. CLXc) from the Depression Era taken by American photographer Russell Lee. It shows school children learning to write in Lake Dick, Arkansas in October 1938. You can see on the blackboard above her how hard a task it is for the poor girl who has dropped her chalk even to form the letter A correctly.

Given the natural tendency toward entropy of human systems at any level of complexity, kosmos does not come easily.
LIST OF ILLUSTRATIONS

Pl. CLIXa Spartan grave inscription for Eualkès who died in the Battle of Mantinea (418 B.C.E.). After JEFFERY (supra n. 2) plate 38, no. 60.


Pl. CLIXd Pyos tablet Cn 608 (photo courtesy of the Program in Aegean Scripts and Prehistory of the University of Texas at Austin and the University of Cincinnati Archaeological Excavations) with annotations by Kevin Pluta.


Pl. CLXb Messenian palatial geography in the LH IIIB period. After BENNET (op. cit.) 121, fig. 61.

Pl. CLXc Russell Lee, photograph of Arkansas school children during the Great Depression October 1938 (courtesy of the Humanities Research Center, University of Texas at Austin).
CLIX

EL Z 1

1 da-pu-ra-axo, wa,

.1 da-pu-ra-axo

.2 da-pu-ra-axo, wa,
the officials listed below:

"points, for javelins and spears"

1. jo-do-so-si, ko-re-te-re, di-ma-te-re,  e-te-qi
2. po-ro-ko-re-te-re, po-ro-te-re, o-pi-su-te-re, o-pi-ka-te-

Main Text

4. pi-te ko-re-te AES M 2 po-ro-ko-re-te AES N 3
5. me-ta-pa ko-re-te AES M 2 po-ro-ko-re-te AES N 3 [ ] vacant
6. ge-to no ko-re-te AES M 2 po-ro-ko-re-te AES N 3
7. a-ki-ja-pa ko-re-te AES M 2 po-ro-ko-re-te AES N 3
8. a-pu-te ko-re-te AES M 2 po-ro-ko-re-te AES N 3
9. a-ke-re-wa ko-re-te AES M 2 po-ro-ko-re-te AES N 3
10. ru-80 ko-re-te AES M 2 po-ro-ko-re-te AES N 3
11. ka-ra-do-ro ko-re-te AES M 2 po-ro-ko-re-te AES N 3
12. ti-jo ko-re-te AES M 2 po-ro-ko-re-te AES N 3
13. i-mi-to-a-ke-te ko-re-te AES M 2 po-ro-ko-re-te AES N 3
14. ra-fu-ra-ta ko-re-te AES M 2 N 3 po-ro-ko-re-te AES N 3
15. sa-lia-te ko-re-te AES M 3 N 3 po-ro-ko-re-te AES N 3
16. a-ji-ja-ta-ja ko-re-te AES M 2 po-ro-ko-re-te AES N 3
17. a-ra-re-wa-ri ko-re-te AES M 2 po-ro-ko-re-te AES N 3
18. e-ma-te-ta ko-re-te AES M 3 N 3 po-ro-ko-re-te AES N 3
19. e-re-t ko-re-te AES M 3 N 3 po-ro-ko-re-te AES N 3
20. - vacant

Quantities of bronze [AES] ranging from 3.75 kg. [M 3 N 3] to 0.75 kg. [N 3]