The settlement at Dhaskalio

Edited by Colin Renfrew, Olga Philaniotou, Neil Brodie, Giorgos Gavalas & Michael J. Boyd

with contributions from

The sanctuary on Keros and the origins of Aegean ritual practice: the excavations of 2006–2008
Volume I
CONTENTS

Contributors x
Figures and plates xii
Tables xxiv
Abbreviations xxvii

Preface
COLIN RENFREW, OLGA PHILANIOTOU, NEIL BRODIE, GIORGOS GAVALAS & MICHAEL J. BOYD xxviii

Acknowledgements xxx

Part A Introduction: Location, Topography and Environment of the Sites 1
Chapter 1 Keros and the Development of the Project 3
COLIN RENFREW
Chapter 2 The Geological Setting of Keros in the Central Aegean 19
JOHN DIXON
Chapter 3 The Geology of Kavos and Dhaskalio 25
JOHN DIXON & TIM KINNAIRD
Chapter 4 Sea-level Change and the Early Bronze Age Topography 45
JOHN DIXON & TIM KINNAIRD
Chapter 5 The Dhaskalio and Kavos Terrain: Topographic Survey,
Aerial Photography and Photogrammetry 57
IMOGEN GRUNDON, BILL BLAKE, JAVIER NARANJO-SANTANA, JOSEPH SEVERN,
VICTORIA MCGUINNESS, CHRISTOPHE GASTON, PETROS PATIAS, OLGA GEORGOUA,
CHARALAMPOS GEORGIADIS, NEIL BRODIE & MICHAEL J. BOYD

Part B The Settlement at Dhaskalio: the Excavation 61
Chapter 6 The Development of the Excavation: Stratigraphy and Phasing 63
COLIN RENFREW, GIORGOS GAVALAS & PEGGY SOTIRAKOPOULOU
Chapter 7 The Dhaskalio Excavations of 1963 79
CHRISTOS DOUMAS
Chapter 8 The Byzantine Chapel and its Finds 87
ELLI TZAVELLA
Chapter 9 The Terrace Structure East of the Summit: Trenches I and II and XV 93
COLIN RENFREW, WILL MEGARRY, GIORGOS GAVALAS & MICHAEL J. BOYD
Chapter 10 The North Structure at the Summit (the Hall):
Trenches VI, X, XLII, XXIV, XIV, XXXVI and XXX 141
COLIN RENFREW, IOANNA MOUTAFI & MICHAEL J. BOYD
Chapter 11 The Central Summit Area and the Summit Enclosure: Trenches XX, XXIII, XXV and XXXV 189
COLIN RENFREW, MICHAEL J. BOYD & GIORGOS GAVALAS
Chapter 12 The South Summit Area: Trenches VII, XLI, XL, XXI and XXII 225
COLIN RENFREW & THOMAS LOUGHLIN
Chapter 13 The Remaining Lower Terraces: Trenches XVII, XVIII, XIII, III, IV and V 281
COLIN RENFREW, MICHAEL J. BOYD & GIORGOS GAVALAS
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>The Petrology of the Walls</td>
<td>John Dixon</td>
<td>309</td>
</tr>
<tr>
<td>15</td>
<td>Micromorphological Analysis of the Occupation Deposits</td>
<td>Sean Taylor &amp; Charles French</td>
<td>325</td>
</tr>
<tr>
<td>16</td>
<td>The Structure and Architecture of the Settlement</td>
<td>Michael J. Boyd</td>
<td>341</td>
</tr>
<tr>
<td><strong>Part C</strong></td>
<td><strong>The Organic Remains from Dhaskalio</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>The Plant Remains: Foodstuffs, Fruit-tree Cultivation and Occupation Patterns at Dhaskalio</td>
<td>Evi Margaritis</td>
<td>389</td>
</tr>
<tr>
<td>18</td>
<td>Phytolith Analysis: Microscopic Evidence for Plant Food Exploitation</td>
<td>Lefteris Zorzos</td>
<td>405</td>
</tr>
<tr>
<td>19</td>
<td>Wood Charcoal: Vegetation and the Use of Timber at Dhaskalio</td>
<td>Maria Ntinou</td>
<td>417</td>
</tr>
<tr>
<td>20</td>
<td>The Animal Bones: the Exploitation of Livestock</td>
<td>Katerina Trantalidou</td>
<td>429</td>
</tr>
<tr>
<td>21</td>
<td>The Shells: the Marine Palaeoenvironment and the Use of the Molluscan Remains</td>
<td>Lilian Karali</td>
<td>443</td>
</tr>
<tr>
<td>22</td>
<td>The Cremation Burial and Other Human Remains</td>
<td>Ioanna Moutafi</td>
<td>451</td>
</tr>
<tr>
<td><strong>Part D</strong></td>
<td><strong>The Artefacts from Dhaskalio</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>The Fabrics of the Ceramics at Dhaskalio</td>
<td>Jill Hilditch</td>
<td>465</td>
</tr>
<tr>
<td>24</td>
<td>The Figurines from Dhaskalio</td>
<td>Colin Renfrew</td>
<td>483</td>
</tr>
<tr>
<td>25</td>
<td>The Spools from Dhaskalio</td>
<td>Judit Haas-Lebegeyev &amp; Colin Renfrew</td>
<td>491</td>
</tr>
<tr>
<td>26</td>
<td>The Marble Vessels from Dhaskalio</td>
<td>Giorgos Gavalas</td>
<td>505</td>
</tr>
<tr>
<td>27</td>
<td>The Pebbles from Dhaskalio</td>
<td>Gry Nymo, Colin Renfrew &amp; John Dixon</td>
<td>517</td>
</tr>
<tr>
<td>28</td>
<td>The Chipped Stone Industry from Dhaskalio</td>
<td>Tristan Carter &amp; Marina Milić</td>
<td>531</td>
</tr>
<tr>
<td>29</td>
<td>The Ground Stone Assemblage from Dhaskalio</td>
<td>Yorke Rowan, John Dixon &amp; Robyn Dubicz</td>
<td>557</td>
</tr>
<tr>
<td>30</td>
<td>The Stone Discs from Dhaskalio</td>
<td>Michael J. Boyd &amp; John Dixon</td>
<td>597</td>
</tr>
<tr>
<td>31</td>
<td>The Other Finds from Dhaskalio</td>
<td></td>
<td>645</td>
</tr>
<tr>
<td>A:</td>
<td>The mat and vine leaf impressions</td>
<td>Jane Renfrew</td>
<td></td>
</tr>
<tr>
<td>B:</td>
<td>Spindle whorls and related objects</td>
<td>Giorgos Gavalas</td>
<td></td>
</tr>
<tr>
<td>C:</td>
<td>Worked sherds and ceramic discs</td>
<td>Marina Ugarković</td>
<td></td>
</tr>
<tr>
<td>D:</td>
<td>The bone tubes</td>
<td>Marina Ugarković, with Yannis Maniatis</td>
<td></td>
</tr>
<tr>
<td>E:</td>
<td>Other finds of stone</td>
<td>Judit Haas-Lebegeyev &amp; Colin Renfrew</td>
<td></td>
</tr>
</tbody>
</table>
## Contents

**Chapter 32**  
Metal Artefacts and Metallurgy  
*Myrto Georgakopoulou*  
667

**Part E**  
The Absolute Chronology and the Role of Dhaskalio  

**Chapter 33**  
The Radiocarbon Determinations  
*Christopher Bronk Ramsey, Colin Renfrew & Michael J. Boyd*  
695

**Chapter 34**  
The Role of the Settlement at Dhaskalio: an Overview  
*Colin Renfrew*  
705

**Appendix**  
Pottery Tables for Dhaskalio: Introduction  
*Peggy Sotirakopoulou*  
725

**Greek summary**  
729

**References**  
743

**Index**  
769

**Colour Plates**  
783

**Fold-out**  
**Figure 5.1. Survey of Dhaskalio and the Kavos area.**  
Inside back cover

## Disc Contents

**Figures of Volume I** (in colour)

**Plates of Volume I** (in high resolution)

Supplementary images of the excavation (Chapters 9–13) and the artefacts (Chapters 7, 8, 24–32)

**Chapter 15**  
Micromorphology  
Figures S7–S17  
Multi-element analyses of floors within the Dhaskalio structures  
*Charles French*

**Chapter 22**  
Cremation burial  
Table 22.S3 and Figures 22.S9–22.S24  
*Ioanna Moutafi*

**Chapter 30**  
Stone discs  
Catalogue  
*Michael Boyd & John Dixon*

**Appendix**  
Pottery tables for Dhaskalio  
*Peggy Sotirakopoulou*