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Edited by Paul T. Nicholson and Ian Shaw

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Ancient Egyptian Materials and Technology

This is a study of the procurement and processing of raw materials employed by the ancient Egyptians over the five millennia of the Predynastic and Pharaonic periods (c. 5500–332 BC). During this time, there were not only variations in the preferred materials for particular types of artefacts, but also gradual processes of technological change, and the industries of the Chalcolithic period were complemented and sometimes superseded by the innovations of the Bronze and Iron Ages. Among the topics covered are stone quarrying, the building of temples and pyramids, techniques for preserving meat, fish and poultry, the making of glass and faience, the baking of bread, the brewing of beers, the preparation of soils and perfumes and the mummification of humans and animals. Each chapter has been written by one or more specialists, drawing not only on conventional Egyptological skills but also on expertise in the natural sciences as applied to archaeological data.

Paul Nicholson is senior lecturer in Archaeology at Cardiff University. His publications include *Egyptian Faience and Glass* (1993), and (with Ian Shaw) *The British Museum Dictionary of Ancient Egypt* (1995). **Ian Shaw** is a lecturer at the Institute of Archaeology, University College London. He is the author of *Egyptian Warfare and Weapons* (1991) and *Timeline of the Ancient World* (1993), and editor (with Robert Jameson) of *A Dictionary of Archaeology* (1999).

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Contributors

- BARBARA ASTON, Daly City, California
 NEIL BOULTON, Department of Archaeological Sciences,
 University of Bradford
 JANINE D. BOURRIAU, The McDonald Institute for
 Archaeological Research, University of Cambridge
 ROSALIE DAVID, The Manchester Museum, University of
 Manchester
 JOANN FLETCHER, Manchester, UK
 ROWENA GALE, Royal Botanic Gardens at Kew
 PETER GASSON, Royal Botanic Gardens at Kew
 JAMES HARRELL, Department of Geology, University of
 Toledo, Ohio
 JULIAN HENDERSON, Department of Archaeology,
 University of Nottingham
 NIGEL HEPPER, Richmond, Surrey
 CARL HERON, Department of Archaeological Sciences,
 University of Bradford
 SALIMA IKRAM, American University in Cairo
 BARRY KEMP, The McDonald Institute for Archaeological
 Research, University of Cambridge
 GEOFFREY KILLEN, St Ives, Cambridgeshire
 OLGA KRZYSZKOWSKA, Institute of Classical Studies,
 University of London
 BRIDGET LEACH, Department of Conservation, British
 Museum
 LORNA LEE, Department of Conservation, British
 Museum
 ROBERT MORKOT, DCAE, University of Exeter
- MARY ANNE MURRAY, Institute of Archaeology,
 University College London
 RICHARD NEWMAN, Research Laboratory, Museum of
 Fine Arts, Boston, Massachusetts
 PAUL T. NICHOLSON, School of History and
 Archaeology, Cardiff University
 JACK OGDEN, Cambridge
 EDGAR PELTENBURG, Department of Archaeology,
 University of Edinburgh
 JACKIE PHILLIPS, The McDonald Institute for
 Archaeological Research, University of Cambridge
 STEPHEN QUIRKE, Petrie Museum, University College,
 London
 PAMELA ROSE, The McDonald Institute for Archaeological
 Research, University of Cambridge
 DELWEN SAMUEL, Institute of Archaeology, University
 College London
 MARGARET SERPICO, Wainwright Fellow, London
 IAN SHAW, Institute of Archaeology, University College
 London
 JOHN TAIT, Institute of Archaeology, University College
 London
 CAROL VAN DRIEL-MURRAY, Instituut voor Pre- en
 Protohistorische Archeologie, Amsterdam
 GILLIAN VOGELSANG-EASTWOOD, Department of
 Egyptology, University of Leiden
 WILHEMINA WENDRICH, University of Leiden
 RAYMOND WHITE, London

Note

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Paul T. Nicholson and Ian Shaw
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Abbreviations

AGSE	<i>Annals of the Geological Survey of Egypt</i>	ERA	Egyptian Research Account
AIHV	Association Internationale pour l'Histoire du Verre	ET	<i>Études et Travaux</i>
AJA	<i>American Journal of Archaeology</i>	FAO	Food and Agriculture Organisation
AO	<i>Archiv für Orientforschung</i>	GM	<i>Göttinger Miszellen</i>
ARCE	The American Research Center in Egypt	GSE	Geological Survey of Egypt
ASAE	<i>Annales du Service des Antiquités de l'Égypte, Cairo</i>	HMSO	Her Majesty's Stationery Office
a.s.l.	above sea level	IEJ	<i>Israel Exploration Journal</i>
BAR	<i>British Archaeological Reports</i>	IFAO	Institut Français d'Archéologie Orientale
BES	<i>Bulletin of the Egyptological Seminar</i>	JAOS	<i>Journal of the American Oriental Society</i>
BIE	<i>Bulletin de l'Institut d'Égypte, Cairo</i>	JARCE	<i>Journal of the American Research Center in Egypt, Boston</i>
BIFAO	<i>Bulletin de l'Institut Français d'Archéologie Orientale</i>	JAS	<i>Journal of Archaeological Science</i>
BL	<i>Bulletin de Liaison</i>	JEA	<i>Journal of Egyptian Archaeology</i>
BM	British Museum	JNES	<i>Journal of Near Eastern Studies</i>
BMFA	<i>Bulletin of the Museum of Fine Arts, Boston</i>	Kêmi	<i>Kêmi: Revue de Philologie et d'Archéologie Égyptiennes et Coptes, Paris</i>
BMMA	<i>Bulletin of the Metropolitan Museum of Art</i>	Kew	Museum of the Royal Botanic Gardens at Kew
BMP	British Museum Press	KPI	Kegan Paul International
BMQ	<i>British Museum Quarterly</i>	LÄ	<i>Lexikon der Ägyptologie</i>
BSA	<i>Bulletin of Sumerian Agriculture</i>	MDAIK	<i>Mitteilungen des Deutschen Archäologischen Instituts, Abteilung Kairo</i>
BSAE	British School of Archaeology in Egypt	MFA	Museum of Fine Arts, Boston
BSFE	<i>Bulletin de la Société Française d'Égyptologie</i>	MMA	Metropolitan Museum of Art, New York
CAJ	<i>Cambridge Archaeological Journal</i>	OIP	Oriental Institute Press, University of Chicago
CBA	Council for British Archaeology	OMRO	Oudheidkundige Mededeelingen uit het Rijksmuseum van Oudheden te Leiden
CCE	<i>Cahiers de la Céramique Égyptienne</i>	OUP	Oxford University Press
CdE	<i>Chronique d'Égypte</i>	PEQ	<i>Palestine Exploration Quarterly</i>
CNRS	Centre National de la Recherche Scientifique (France)	PPS	<i>Proceedings of the Prehistoric Society</i>
CNWS	Centre for Non-Western Studies, Leiden	PSBA	<i>Proceedings of the Society of Biblical Archaeology, London</i>
CRIPPEL	<i>Cahiers de Recherche de l'Institut de Papyrologie et Égyptologie de Lille</i>	RdE	<i>Revue d'Égyptologie</i>
CSJ	<i>Cairo Scientific Journal</i>	RT	<i>Recueil de Travaux Relatifs à la Philologie et à l'Archéologie Égyptiennes et Assyriennes</i>
CUP	Cambridge University Press	SAE	Service des Antiquités de l'Égypte, Cairo
DAIK	Deutsches Archäologisches Instituts, Abteilung Kairo	SAK	<i>Studien zur Altägyptischen Kultur, Hamburg</i>
DE	<i>Discussions in Egyptology</i>	WA	<i>World Archaeology</i>
DOG	Deutsche Orient-Gesellschaft	ZÄS	<i>Zeitschrift für Ägyptische Sprache und Altertumskunde, Leipzig and Berlin</i>
EA	<i>Egyptian Archaeology</i>		
EEF	Egypt Exploration Fund		
EES	Egypt Exploration Society		