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978-0-521-88827-1 - Lithic Technology: Measures of Production, Use, and Curation

Edited by William Andrefsky

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LITHIC TECHNOLOGY: MEASURES OF PRODUCTION, USE, AND CURATION

The life history of stone tools is intimately linked to tool production, use, and maintenance. These are important processes in the organization of lithic technology, or the manner in which lithic technology is embedded within human organizational strategies of land use and subsistence practices. This volume brings together essays that measure the life history of stone tools relative to retouch values, raw material constraints, and evolutionary processes. Collectively, they explore the association of technological organization with facets of tool form such as reduction sequences, tool production effort, artifact curation processes, and retouch measurement. Data sets cover a broad geographic and temporal span, including examples from France during the Paleolithic, the Near East during the Neolithic, and other regions such as Mongolia, Australia, and Italy. North American examples are derived from Paleoindian times to historic period aboriginal populations throughout the United States and Canada.

William Andrefsky, Jr., is a professor of anthropology at Washington State University. He is the author of more than 100 articles and books, including *Lithics: Macroscopic Approaches to Analysis*.

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WILLIAM ANDREFSKY, JR.

Washington State University



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In memory of Yukiko Akama Andrefsky

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PREFACE AND ACKNOWLEDGMENTS

In 1968 George Frison introduced the notion of artifact transformations as a result of use and resharpening. This “Frison Effect,” as it has come to be called, on stone tools can be viewed as the life histories of individual tools. Such life histories are intimately linked to tool production, use, and maintenance. This collection of chapters grew from presentations at a symposium entitled “Artifact Life-Cycle and the Organization of Lithic Technologies” that took place at the 71st Annual Meeting of the Society for American Archaeology in 2006. The focus of that symposium and this volume is upon the relationship between the manner in which humans organize their lithic technology and the life history of lithic tools.

Researchers interested in lithic technological organization realize the importance of artifact life histories in understanding the intricacies of tool form and shape as they relate to production strategies for those tools. In an effort to better understand those relationships, lithic analysts (including contributors to this volume) have explored lithic reduction sequences, chaîne opératoire, tool curation, tool production effects, retouch measurements, and the role of lithic raw material as these relate to lithic technological organization and stone tool life history. A great deal of imaginative and compelling research has occurred since the Frison Effect was first recognized, and this collection of papers provides a fresh new look at all of these topics from both a methodological and a theoretical perspective.

I would like to thank all of the participants of the original symposium for their participation. For various reasons, not all symposium

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participant chapters are included in this volume. Also, as chapters were reviewed, revised, and adjusted, some chapters gained authors and some authors contributed different written research. This blend of chapters captures opinions and ideas about lithic technology from some of the most respected scholars in the field today, but it also includes research from many young new researchers who will one day guide the field of lithic technology. It was a joy to bring this group together under a single cover. My best wishes go to all volume contributors and symposium participants.

I must also thank the team of editors and production staff from Cambridge University Press and their associated collaborators. In particular I thank Publishing Director Beatrice Rehl and her editorial assistant Tracy Steel for managing this book project. The production manager for Aptara, Inc., Maggie Meitzler, helped me navigate through the technical challenges of today's high-tech world of publishing. William Stoddard was a fabulous copy editor. Lastly, I thank the Cambridge University Press peer reviewers for making important comments on the original draft.

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Social Organization, Identity, and Differentiation (2000) and the co-editor of *Complex Hunter–Gatherers: Evolution and Organization of Prehistoric Communities on the Plateau of Northwestern North America* (2004). His research has been supported by the National Endowments for the Humanities, the National Science Foundation, the Social Sciences and Humanities Research Council of Canada, and the British Academy.

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