



## Traces Of The Past: Unraveling The Secrets Of Archaeology Through Chemistry (Contemporary Issues in Museum Cultures (Paperback))

*By Joseph B. Lambert*

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Where Stonehenge's giant bluestones come from? Was the fall of the Roman Empire hastened by lead poisoning? How did amber get from the Baltic to Belize? In exploring these and other historical enigmas, Joseph Lambert expertly details the rich insights into ancient life that chemistry alone can provide. Using cutting-edge scientific methods such as radiocarbon dating, DNA analysis, and elemental fingerprinting, acclaimed chemist Joseph Lambert expertly details the rich insights into ancient life that chemistry alone can provide. He shows, for example, how investigators today can determine the diet of prehistoric Europeans, the geographical origin of the marble in a Greek statue, or the reason why the Liberty Bell cracked. He uses nuclear magnetic resonance spectroscopy to reconstruct ancient trade routes, and X-ray diffraction, among other methods, to compare the color palettes of the Mesopotamians and Egyptians (the latter were apparently much more flamboyant). He explains how chemical analysis of DNA can be used to sort out human lineages and migratory patterns—demographic trends that affected, in turn, everything from language to the spread of disease. Chemistry takes center stage in this fascinating book, proving that it is not just an analyst of culture, it stands as one of its primary creators. Lambert offers us a unique glimpse into a form of technical progress hitherto unappreciated: the ever-increasing ingenuity of the Human race, as seen through the prism of its evolving chemical sophistication. We discover how primitive chemistry was initially used by ancient people as a tool to improve their daily lives, a feat that was achieved by reworking molecules of clay into pottery and minerals into metal alloys, and by turning grains into beer and pitch into sealants. By documenting the way ancient people manipulated their environment chemically, Lambert further refines the distinguishing feature of our species. Early humans were more than tool-makers. They were molecular transformers.

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**Traces Of The Past: Unraveling The Secrets Of Archaeology Through Chemistry (Contemporary Issues in Museum Cultures (Paperback))** By Joseph B. Lambert Bibliography

- Sales Rank: #1628768 in Books
- Brand: Brand: Basic Books
- Published on: 1998-09-23
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x .79" w x 6.00" l, 1.08 pounds
- Binding: Paperback
- 336 pages

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## **Editorial Review**

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When British archaeologists discovered a Viking ship burial at Sutton Hoo, Sussex, in the late 1930s, they were surprised to find no signs of human remains; only through the chemical study of the acidic soil could signs of a body be found. The use of chemistry has enabled archaeologists to pinpoint the origins of ancient Egyptian monuments, discover some causes for the decline of the Roman empire, and date the remains of the earliest protohominids. In *Traces of the Past*, chemist Lambert introduces readers to this happy alliance of science and history.

### **About the Author**

**Joseph B. Lambert** is Clare Hamilton Hall Professor of Chemistry at Northwestern University. He is a pioneer in organosilicon chemistry, and has won many national awards, including the James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry. He has published over 300 articles and many leading textbooks in the field of chemistry.

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