The Grandeur That Was Roman Glass

By RITA REIF

O the ancient Romans, glass was magical, a commodity with star potential that was never fully realized by the Greeks. Awed by the transparency and fragility of glass, the Romans in the reign of Augustus (27 B. C. to A. D. 14) transformed its production from a craft to an industry. And the process spanned several decades, about as long it took to develop the computer in the late 20th century.

"Until 65 B. C., glass was a rarity that dazzled the ancients," said Stuart Fleming, the scientific director of the University of Pennsylvania Museum in Philadelphia. "But until that year there wasn't a Latin word for it. That's when Lucretius described glass in 'On the Nature of Things' as colorful and shining and called it vitrum."

A century later, innovative techniques, like glass blowing, had changed the look of glass, and mass production had spread its availability to 54 million Romans throughout the empire, which by then extended north to Germany, south to Egypt, east to Iraq and west to Britain.

Glass had become so common and cheap that its luster as a luxury material began to dim for Roman aristocrats. To show their disdain, they used the phrase "vitera fracta," or broken glass, to mean rubbish. While the elite no longer displayed glass objects among their gold, silver and bronze

In just a few decades, what had been a dazzling rarity became a massproduced commodity of stunning variety.

table decorations, most Romans continued to use glass in their homes and taverns, spurring inventive design and fashion changes well into the sixth century.

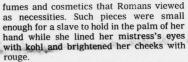
The stunning variety of glass objects in daily use at the time incorporated virtually every glass-working technique known today, as can be seen in "Roman Glass: Reflections on Cultural Change," an exhibition at the Bard Graduate Center for Studies in the Decorative Arts, at 18 West 86th Street, Manhattan, through June 11. The 200 pieces date from the first century B.C. to the sixth century A.D. and were selected from the university museum's collection by Mr. Fleming, the show's curator. It is the first

A bowl, right, and a perfume bottle, left, from the first century A.D. and a jug, below, from the fourth century are in an exhibition of Roman glass at the Bard Graduate Center.



exhibition of the museum's collection of ancient glass since the museum opened a

What amazed Mr. Fleming, a radiation physicist, when he first examined the museum's glass collection was the thinness and feather-lightness of so many pieces, especially those made to hold the precious per-



Many pieces glow with vibrant lusters and speckling that glassmakers did not plan: patinas left by time, soil and the chemicals in the air that clouded the surfaces of ancient works. But for the most part the pieces in this collection have astonishing clarity and unmarred bodies that reveal ribbing, dimpling, puckering and wavy patterns. These decorative effects were pressed or combed into the glass while it was still soft, or applied later after it had hardened, as is seen in a small jug with zigzag tracing at the base.

Mr. Fleming's favorite is a glittering blue bubble of a perfume bottle from the first century A.D. that resembles a Christmas ornament. It is mighty in its delicacy, a tiny form defined by a trickle of white frosting spun in a spiral from its mouth to the tip of its tail. And it was, no doubt, made by a slave — as most glass workers in the period were slaves — who would have risked a lot to create it.

"Somebody took the time to very carefully stretch out the neck and stretch out the tail," Mr. Fleming said. "If you broke an object in a Roman workshop, you probably paid for it with a lashing."

This glorious piece reveals how the most distinctive characteristic of glass, its transparency, was fully exploited right at the beginning of the industrialization of glassmaking. The piece was made soon after glass blowing was invented under the Romans, probably in Judea, about 70 B.C. Step by step, glass became ever more fanciful

and decorative as innovations er process. Glass was first blown mold to create, for example, squabottles about A.D. 45. Then under colorless glass, a staple still wine lovers, followed by fac cutting to produce glass obed rock crystal. Engravity as intriby the second century A. D., and fourth century there were cage cups carved with multiple layers of decoratific cut from rocks, the ultimate for gift cut from rocks.

Photographs by University of Pennsylva

Fashion brought many changes forms and look of glass during the period. After stantine convert Christianity in Rome to the University of the Checame Constant ople, Roman glato look increasingly more Byzantine

here was a sudden in production of glasse in cone exhibition," Mr. Flein in exhibition." Mr. Flein in were produced to high color back to glass: bright each way to be pagan myths, of Here in Feros, for ple, were altered significant with the scene pagan myths, of Here is the sce

"Roman potter" and iron object mundane to us today," Mr. Flemin "And the symbolisms expressed in man gold, bronze and silver works were coveted by the wealthy now empty. But glass brings us most clotouch with ancient times: we can fee fortable with it in everyday life, just Romans did. We can imagine people and breaking it and admiring it for it beauty."

