

Ru Sky at Night Tom Buntington.

Michael Joseph 1984 18-95

smelter we split the bar open with an axe forming it into a shape. In this way he could inspect the quality of the wrought iron just pulled.

28th FEBRUARY - PLEASE BRING YOUR PELLETS  
OF BONES FROM SENSURES  
BRED TO STUDY!!  
CHURCH HALL  
TIT CLESTED  
10.30am

at first Bloomery - a plowshare made over, was smelted, when a rock was put in. They cut thru' the temp'd slag & char which melted this to 15" top soil cinder until including a large 400 lb. Therefore, steel & pine iron markets in ear: during hammerers used to come, or send agent, from all over to buy top qual' bloomeries. H. J. Ferreira, a Brazilian swordsmith actually, livedly worked for a time at the fair of L. Katrina. At Claymore, authentic clay in a genuine ferrovia with a map showing the location of his smelters, damascened and blade, comes right some yrs ago. The top ore usually bog iron was dug in by horseback to be melted close to where trees grew to provide charcoal. It cost ore  $\rightarrow$  2 east iron although, the ratio shd have been close to 6:1. For bloomery  $\rightarrow$  c 3 tons/ha & consumed over 100 acres of standing trees in doing so. Hazel & birch were considered to be the best. There was no need to remove ex-hancomed heat-sinkers to dry the water iterately, plus with sm. payments. Alternat layers of burning charcoal powdered iron ore were built up in a smooth hollow dug into the ground until a heaped mound was visible. The top sealing layer of charcoal was kept saturated in water to prevent it burning. A ring of hemispheres surrounded the mounds in 2 caps like tiered eggs at 2% + 1% in the circle. Through 1 + there & incandescent charcoal were stoked in a furnace bringing them into close contact w each other. Particles of iron melted to form a conglom. at the bottom of the pit. Slag either dissolved in the cooler air at the surface & was either expelled or pushed back for further smelting. Sometimes raw slag particles & un previous smeltings were added. The temp of the matus never rose much above 1200°C & as the true melting point of iron is about 1500°C the ore was never fully melted. The low temp avoided the fusion & damage impurities such as phosphorus & sulphur. At the iron was extracted from the pit. It was sprinkled with water & beaten w hammers to facilitate the removal of remaining slag. Each bar or bloom measured c. 6" x 6" x 3" weighed c. 11/2 lb.