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Final Report - Crucible Steel Production: An Experimental Study of Crucible Composition and Structure

The paper, **Crucible Steel Production: An Experimental Study of Crucible Composition and Structure**, presented in Warsaw examined crucible steel production through experimental archaeology. The novelty of this particular study is that rather than focused on the metal product of a smelt, my research focused on the crucibles and the impact of different smelting conditions. I also presented my finds concerning raw material from Pakistan that was smelted into crucible steel. Most of today's scholarship focuses on South India regarding crucible steel, but my paper suggested that additional research needs to be done regarding Pakistan and Northern South Asia, because the material requirements to smelt crucible steel are located there as well. Through this paper, I presented information regarding the difficulties of smelting and that crucible steel can only be produced under exacting conditions. I concluded my talk by saying that more studies need to be performed and that materials in Pakistan, particularly crucibles at Taxila, currently may have the appropriate traits of crucible steel technology, thus, I plan on returning to Pakistan in the future.