



Poster 10

## Leaching of metals in BOS slag via acid digestion



Anna Alvarez Reguera

**AUTHOR OF POSTER:**  
Anna Alvarez Reguera

**INSTITUTION:**  
University of Warwick

**OTHER AUTHORS:**  
Alison Tuling, Tata Steel UK  
Dr Ciarán Martin, Tata Steel UK  
Dr Stuart Coles, University of Warwick  
Dr Steven Spooner, Swansea University  
Dr Tara L. Schiller, University of Warwick

### ABSTRACT:

Basic oxygen steelmaking (BOS) produces slag as a by-product which currently has limited low value use. Although there is a plethora of research conducted on recycling the material, due to the variability in composition from batch to batch, the scale-up on a single site, let alone multi-site solutions, is difficult. Metal extraction via acid digestion is a promising way of recycling slag due to its resilience and robustness. This poster presents the initial stages of this project focused on understanding the variability of both legacy and newly produced BOS slag before attempting to leach metals with different acids conducting a comparison of effectiveness for further separation downstream. By valorising an extraction route of certain slag components, not only can high value selective reuse of the material be achieved.



Organised by:

