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## BOF Steelmaking - dead or alive? How to survive in the 21st century?

*Wednesday, 21 May 2025 09:10 (20 minutes)*

The transformation toward sustainable green production is focusing on hydrogen technologies and recycling of scrap.

The constraints of resources availability are known (green H<sub>2</sub>/electricity, high grade DRI, scrap volume and quality).

Therefore, the BOF process solution will remain for the next 25 years the prominent technology:

- Economic aspects on increasing P levels will define applied process solutions with optimized slag control.
- Synthetic hot metal will require adapted process control.
- Maximised scrap rates are in contradiction to tramp element control.

Solutions and perspectives will be presented to keep the BOF technology fit for the future.

### Speaker Country

Deutschland

### Are you interested in publishing the paper in a Steel Research International special issue?

Yes

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**Session Classification:** Impact of changed raw material mix on BOF process and secondary metallurgy

**Track Classification:** Impact of changed raw material mix on BOF process and secondary metallurgy