

EUROMAT 2017 / Symposia Structure / Area C

C.7	Title: Steel making		
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	Summary		
<p>Today's Advanced High Strength Steels (AHSS) contain high amounts of Manganese and other carbonitride forming elements that need special care during secondary steelmaking. Refining techniques such as calcium treatment (or CaSi) for the modification of inclusions, soft bubbling, vacuum degassing metallurgy, hydrogen removal and other numerous practical aspects of the steel making process are to be addressed in the frames of this Symposium on steel making. Current trends, the urge for productivity increase, the need to monitor the off-gases (emissions etc.) are to be addressed here. Of course the scientific approach on EAF, ladle and/or blast furnace metallurgy is always of paramount importance. Data analysis, development and statistical evaluation of historical data can be also presented within this Symposium. Within the scope of the workshop are furthermore the following:</p> <ul style="list-style-type: none"> • Optimization of existing processes • Discussion on the implementation of new technologies • Processing of iron ore to primary metal, sponge iron and/or the further treatment to crude steel • Production of steel with renewable energies • Production of high-quality steel in the circular economy (i.e. high scrap rates) • Casting related issues (e.g. hot shortness, defects etc.) • Dynamic soft reduction for the avoidance of macro- and micro- segregation • Endless casting and rolling • Energy- and emission- control and optimization in the steel industry 			