



Contribution ID: 240

Type: **Oral**

## **Application of Positron Annihilation Spectroscopy for Structural Defect Studies**

Positrons are used in materials science to study open volume defects. These imperfections play an important role in materials properties. Knowledge about their concentration gives possibility to control the conductivity, mechanical strength, ductility and many others. Defects can be created as a result of mechanical processing e.g. polishing, cutting, millig. They are also introduced during irradiation. This report aims to present positron annihilation studies of subsurface zone in materials exposed to sandblasting and irradiation. The complementary methods such as SEM, AFM microscopy and microhardness tests were also applied.

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**Track Classification:** Applied Research