



SYIS – STUDENT MEET MENTOR

Aldo R. Boccaccini

Aldo Boccaccini is Chair and Professor for Biomaterials at the Department of Materials Science, [University of Erlangen-Nuremberg](#), Germany. Until October 2009 he was Professor of Materials Science and Engineering at Imperial College London, UK, Department of Materials, where he is now Visiting Professor of Materials. Prof. Boccaccini holds an MSc (Nuclear Engineering) from Instituto Balseiro (Argentina), PhD (Dr-Ing.) from Aachen University of Technology (Germany) and Habilitation from Ilmenau University of Technology (Germany). Previously, he had appointments at the University of Birmingham (UK), the University of California at San Diego (USA) and the Ilmenau University of Technology (Germany).

The research activities of Prof. Boccaccini are in the broad area of glasses, ceramics and polymer/glass composites for biomedical, functional, and/or structural applications. He is the author or co-author of more than 370 scientific papers and 15 book chapters.

Prof. Boccaccini has pioneered the use of electrophoretic deposition for production of nanostructured materials and composites, including carbon nanotube containing composites. In the last few years he has developed extensive research activities in the area of scaffold materials for tissue engineering applications and has pioneered the development of novel highly porous bioactive and degradable composite scaffolds with nanostructured surface topography. The addition of a bioactive component, for example tailored compositions of bioactive glasses, is seen as a significant improvement towards clinical applications (third-generation biomaterials) due to the possibility of tuning the degradation rate, mechanical properties and biological response of the scaffold.