

CURRICULUM VITAE



NAME: **ALDO ROBERTO BOCCACCINI**

DATE OF BIRTH: 2nd September 1962
PLACE OF BIRTH: San Rafael, Argentina
NATIONALITY: Italy and Argentina

WORK ADDRESS: Professor and Head, Institute of Biomaterials
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Academic Background

1981-1983 Electromechanical Engineering, “Universidad Tecnológica Nacional”, San Rafael, Argentina.

1983 - 1987 MEng in Nuclear Engineering, "Instituto Balseiro"/ “Universidad Nacional de Cuyo”, Bariloche, Argentina.

1988 - 1994 Ph.D. (Dr.-Ing) in Materials Science, Aachen University of Technology (RWTH Aachen), Germany.

2001 “Habilitation” in Materials Technology, Institute of Materials Technology, Ilmenau University of Technology, Germany.

Positions Held

6/1993-7/1994 Research assistant, Institute for Glass, Ceramic and Composite Materials, Aachen University of Technology (RWTH), Germany.

8/1994- 11/1996 Post-doctoral research associate. School of Metallurgy and Materials, University of Birmingham, U.K.

12/96 - 11/1997 Post doctoral research associate, Institute for Mechanics and Materials (IMM), University of California, San Diego, USA.

12/1997-07/2000 Research associate and lecturer. Technical University of Ilmenau, Ilmenau, Germany.

08/2000 – 09/2002 Lecturer, Department of Materials, Imperial College London, UK

10/2002 – 09/2008 Reader in Materials Science, Imperial College London, UK

10/2008 – 09/2009 Professor of Materials Science and Engineering, Imperial College London, UK

From 1/10/2009 **Professor and Head of Institute of Biomaterials, Department of Materials Science and Engineering, University of Erlangen-Nuremberg, Germany**

1995 – today	Visiting professor, Aachen University of Technology, Germany.
1/10/2009 – today	Visiting professor, Imperial College London, UK
2009 – today	Visiting professor, Nagoya Institute of Technology, Japan
2012 – today	Visiting professor, Jozef Stefan Institute, Graduate School, Slovenia.

Achievements in academia and for the scientific community, awards and indicators of esteem (highlights)

- Adolf-Martens Prize, Adolf-Martens-Fonds, in recognition of outstanding contributions to materials science in Germany, 2000
- Review Paper Award, Ceramic Society of Japan, (Japan) 2000.
- Expert Visit Award, NATO Scientific Affairs Division, Brussels, (Belgium), 2001.
- Verulam Medal and Prize in recognition of distinguished contributions to ceramics, Institute of Materials, Minerals and Mining, London (UK), 2003.
- Guest scientist invitation, Institute of Industrial Sciences, University of Tokyo, Japan, March 2003.
- Federation of European Materials Societies (FEMS) "Materials Science and Technology Prize 2003" for outstanding contribution as a most promising and talented materials scientist under the age of 40.
- Elected Fellow of the Institute of Materials, Minerals and Mining (UK), February 2004.
- Visiting lecturer, School of Materials Engineering, Nanyang Technological University, Singapore, April 2004.
- Editorial Board member, *Ceramic Bulletin* (Am. Ceram. Soc.) (2007-2008)
- Elected member of two Technical Committees of the International Commission on Glass (ICG): Glass for Medicine and Biotechnology (since 2004) and Vitrification of Radioactive and Hazardous Waste (September 2006).
- Member of the Editorial Board of the following international journals: "*Advanced in Applied Ceramics: Structural, Functional and Bioceramics*", "*Journal of Biomaterials Applications*", "*Adv. Eng. Mater.*", "*Tissue Engineering and Regenerative Medicine*" (Wiley), "*Interceram*", "*Recent Patents on Engineering*", "*Recent Patents on Materials Science*", "*J. Mater. Proc. Technol.*" (Elsevier), "*J. Mater. Sci.*" (Springer), "*Nanocomposites*", "*Scientific Reports*" (Nature Publishing Group), "*Journal of Ceramic Science and Technology*"
- Associate Editor, *Int. J. Applied Glass Science* (Wiley) (since 2013)
- Biomaterials Editor, *Materials* (since 2013)
- Member, EPSRC Peer Review College, UK, 2003-2012.
- Member of the European Continental Council of the Tissue Engineering and Regenerative Medicine International Society (TERMIS) 2005-2010.
- Editor, TERMIS Newsletter, European Section (2006-2010).
- Elected as one of the first 18 Imperial College Ambassadors, September 2006.
- Member, International Advisory Committee, "Sintering 2008" Conference, 16-19 November, 2008, San Diego.
- Review Paper Award, Ceramic Society of Japan (2007)
- Rector's Award for Excellence in Research, Imperial College London, 2007.
- Member advisory committee, International Scientific Cooperation, Ministry of Science and Technology of Argentina, 2008
- Member advisory board, National Materials Program, Universidad Tecnologica Nacional, Argentina, 2008
- Distinguished Lecturer, Process Chemistry Centre, Abo Akademi University, Turku, Finland, 2008
- Highly cited author 2005-2008, journal *Mater. Sci. Eng. "C"* (Elsevier)
- Highly cited author (2009. 2010), journal *Biomaterials*
- Reviewer, Swiss National Science Foundation
- Reviewer, German Science Foundation (DFG)
- Member, Scientific Committee of Graduate School in Material Science and Engineering, University of Padova, Italy.
- Chairman of the ECI's International Conferences Series on Electrophoretic Deposition (5x conferences chaired since 2002)
- Co-Chair, EUROMAT 2009 conference, Glasgow, UK.
- Editor-in-Chief, *Materials Letters* (Elsevier) (from 2010)
- Member Organising Committee Euro BioMat conference, (Jena, 2011, Weimar 2013)
- Topic Area organisers, EUROMAT 2011 (Montpellier, 2011)
- Ivor Jenkins Medal, Institute of Materials, Minerals and Mining, UK (2010)
- Visiting Professor, Department of Materials and Environmental Engineering (DIMA), University of Modena and Reggio Emilia, Italy (2010)
- Member of the Executive Board of "Medical Valley European Metropolitan Region Nuremberg e.V.", Erlangen, 2010-2013.
- Representative of Germany to the Management Committee of COST action MP1005, since 2011.

- Guest editor of several journals, including: *J. Mater. Sci.*, *J. Europ. Ceram. Soc.*, *J. Mater. Sci. Mater. Med.*, *Adv. Eng. Mater.*, *Adv. Appl. Ceramics*, *Comp. Sci. Technol.*, *Biomed. Mater.*, *J. Phys. Chem. B*, *J. Non-Cryst. Solids*
- Affiliate member, Engineering Conferences International Conferences Committee, New York, USA, 2011
- Elected Fellow of the American Ceramic Society, 2011
- McMahon Lecture Award, Alfred University, NY(USA)
- Elected Member of Reviewer Panel, German Science Foundation (DFG), 2011
- Featured in Biggerbrains campaign (Elsevier Publisher), 2012
- Member, Materials Science and Engineering Expert Committee, European Science Foundation, 2012
- "RAICES" Award, Ministry of Science and Technology (MinCyT) of Argentina, 2013
- Chairman, Annual Conference of the German Society of Biomaterials (DGBM), 2013.
- Fall Lecture 2013 at the Institute of Ceramics and Glass of Madrid, Spain, 2013.
- "Materials Best Paper Award 2014-Category Reviews", journal *Materials*, 2014.
- Program Chair, 10th International Conference on Medical Applications of Novel Biomaterials and Nanobiotechnology, 6th Forum on New Materials, CIMTEC 2014, Montecatini Terme, Italy, June 2014.
- Listed in "2014 Thomson Reuters Highly Cited Researcher" and included in Thomson Reuters' report: "2014 The World's Most Influential Scientific Minds".
- Chairman, 6th International Workshop on Advanced Ceramics (IWAC-06), Erlangen, Germany, 28-30 September 2014.

Short biography

Prof. Aldo R. Boccaccini has held the Chair for Biomaterials at the Department of Materials Science and Engineering, University of Erlangen-Nuremberg, Germany, since 1 October 2009. Previously he was Professor of Materials Science and Engineering at Imperial College London, UK, Department of Materials. He has remained Visiting Professor of Materials at Imperial College London. Boccaccini holds a MEng degree from Instituto Balseiro (Argentina), PhD (Dr-Ing.) from Aachen University of Technology (Germany) and Habilitation from Ilmenau University of Technology (Germany). Before joining Imperial College in 2000, 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 500 scientific papers and 15 book chapters. His *h*-index is 52 and his work has been cited more than 8,600 times.

Prof. Boccaccini leads a multidisciplinary research group composed of 22 PhD students and several post-doctoral researchers and academic visitors. He is also associated with the Composites Centre and the Centre for Advanced Structural Ceramics at Imperial College London. In the last few years he has developed extensive research activities in the area of scaffold materials for tissue engineering applications and has initiated the development of novel highly porous bioactive and degradable composite scaffolds for cardiac patch applications. The addition of a bioactive component 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 patch. He has also pioneered the development of novel bioactive glass scaffolds containing carbon nanotubes which provide not only a suitable nanotopography but also enhanced functionality for bone regeneration. Prof. Boccaccini has also developed the electrophoretic deposition technique for production of nanostructured materials and composites with defined surface topography with potential use in the biomedical field.

His achievements in the area of materials science have been recognized with the award of the Materials Science and Technology Prize 2003 by the Federation of European Materials Society (FEMS) and the Verulam Medal and Prize 2003 of the Institute of Materials Minerals and Mining (IOM3). He has been elected Fellow of the Institute of Materials, Minerals and Mining of the UK. In addition to his research and teaching activities, Prof. Boccaccini was the Chair of the London Materials Society (2005-2006), he was a member of the EU chapter of the Tissue Engineering and Regenerative Medicine International Society (TERMIS) (2005-2009) and serves in the editorial board of several recognized international journals including *Journal of Materials Science*, *J. Tissue Engineering and Regenerative Medicine*, *International Materials Review*, *J. Biomaterials Applications*, *Advanced Engineering Materials*, *Advances in Applied Ceramics*, *Key Engineering Materials*, *Scientific Reports*, *Materials* and *J. Mater. Processing Technology*. Prof. Boccaccini was an International Ambassador of Imperial College London (2006-2009). He has been a visiting professor at different universities around the world, including Japan, Italy, Spain, Slovenia, Netherlands, Singapore, Germany, Argentina, Poland. Boccaccini is the founder of the International Conferences Series on Electrophoretic Deposition (sponsored by Engineering Conferences International) and he was the Chairman of the four conferences of the series held so far in Canada (2002), Italy (2005), Japan (2008), Mexico (2011) and Austria (2014). Prof. Boccaccini was the co-chair of the EUROMAT 2009 conference, the largest Materials conference in Europe, held in Glasgow, UK. In January 2010, Prof. Boccaccini was elected Editor-in-Chief of the international journal "Materials Letters" (Elsevier) and he is the recipient of the Ivor Jenkins Medal 2010 of the Institute of Materials, Minerals and Mining (UK). In 2011 he was elected Fellow of the American Ceramic Society and he received the McMahon Lecture Award of Alfred University, NY (USA). He was recently elected member of the Reviewer Panel of the German Science Foundation (DFG). Boccaccini presented (2013) the Fall Lecture at the

Institute of Ceramics and Glass of Madrid, Spain. He chaired the Annual Conference of the German Society of Biomaterials (DGBM) (September 2013) and the 5th Int. Conference on Electrophoretic Deposition held in Hernstein, Austria (October 2014). Boccaccini is also an international advisor to the Ministry of Science and Technology of Argentina (MinCyT) and he was awarded recently (Nov. 2013) the prestigious "RAICES" prize of MinCyT recognizing international leadership in research collaborations with Argentina. He has been named a 2014 Thomson Reuters Highly Cited Researcher.