Prof. Dr. Dr. h.c. mult. Rainer GADOW

Address: Institute for manufacturing technologies of ceramic components and composites, IMTCCC
University of Stuttgart
Allmandring 7b, D-70569 Stuttgart, Germany
rainer.gadow@ifkb.uni-stuttgart.de

Education:

Full professor and chair, manufacturing engineering with advanced materials
University of Stuttgart (1995)

Assistant professor, ceramics and composites, University of Karlsruhe (1984)

Ph.D., Dr. rer. nat. in Chemistry (1986)
University of Karlsruhe (T.H.), Germany

M.Sc., Dipl.-Chem. in Technical Chemistry (1981)
University of Karlsruhe (T.H.), Germany

Bachelor, Abitur (1973), Gymnasium am Schloss, Saarbruecken, Germany

Air Force Academy, officers graduation (1978), Fuerstenfeldbruck, Germany

German Military Academy, general officer education (2001), Hamburg

NATO Defence College, graduation (1999), Rome, Italy

Current Research Interest:

Materials engineering and product development
Processing and manufacturing of ceramic components
Processing and manufacturing of nano structured materials and components
High energetic surface technologies
Coatings and layer composites
Biomaterials and biomedical technologies
Technology of composite materials
Modelling and Simulation of Manufacturing Processes
Total quality management in industrial manufacturing and management

Employment:

2014 – 2017	Dean, Faculty of Mechanical, Production and Automotive Engineering
2008 - present	Director materials and process engineering, Graduate school of excellence for Advanced Manufacturing Engineering GSaME, University of Stuttgart

2000 - present	Managing partner, New Materials Technologies TTI GmbH, Stuttgart
2000 - 2005	Professor, Total Quality Management, Stuttgart Institute of Management and Technology (SIMT)
1995 - Present	**Full professor and managing director**, Institute for Manufacturing Technologies of Ceramic Components and Composites (IFKB), University of Stuttgart
1990 - 1995	Division and general manager Deutsche Babcock AG Industrial Group; division manager Materials and New Technologies, Deutsche Babcock-Borsig AG, Berlin General manager Euroflamm GmbH, Bremen, automotive supplier, plasma and supersonic coating technologies Director surface technology division, BDAG Balcke-Dürr AG, Ratingen
1986 - 1990	Manager R&D and general manager at W. Haldenwanger Technical Ceramics GmbH & Co., Berlin and Waldkraiburg
1984 - 1986	Assistant professor, head of ceramics and composites group; Institute of Technical Chemistry, University of Karlsruhe, Germany
1981 -1983	research fellow, Institute of Technical Chemistry, University of Karlsruhe, Germany

Selected Professional Activities:

2014 - 2017	Dean, Faculty of Mechanical, Production and Automotive Engineering, University of Stuttgart
2010 - present	Dean, Master Program Mechanical Engineering / Material and Production Engineering, University of Stuttgart
2002 - 2006	Vice dean of the Faculty of Mechanical Engineering, Head of Dept. Mechanical Engineering and Industrial Manufacturing, University of Stuttgart
2000 - 2002	Dean of the Faculty of Mechanical Engineering and Industrial Manufacturing, University of Stuttgart
2004 - 2009	co-*chair* IP Nanoker, Int. Joined Strategic Project in Nanomaterials Science & Engineering, Commission of the European Union
	Colonel i. G., German Department of Defense, Berlin

Publications:

More than 700 international papers, books, monographies
and 60 patents

Short Biography:

Prof. Gadow has completed his M.Sc. and PhD both in chemistry at the University of Karlsruhe (T. H.), Germany, now KIT. As assistant professor he was head of the ceramics and composites group at ICT, University of Karlsruhe. In his industrial career he was head R&D and general manager in world leading companies in technical ceramics, surface technologies and advanced mechanical engineering. Since 1995 he is full professor and managing director of IFKB, the institute of manufacturing technologies of ceramic components and composites at the University of Stuttgart, Germany. He managed various national and international projects in advanced cermics, surface and nano technologies. He is the acting dean of the faculty of mechanical, automotive and production engineering with 17 research institutes in Stuttgart. Furthermore he is managing director of New Materials Technologies at TTI GmbH, Stuttgart. He has published more than 700 papers in reviewed journals and more than 60 patents in the field of product development with new materials and manufacturing processes. He is serving as an editorial board member and peer reviewer of various scientific journals and visiting professor worldwide.