

Universitätsprofessor Dr. rer. nat. habil. **Wolfgang A. Kaysser**

Curriculum vitae



1. Personal Data

Wolfgang Albert Kaysser

born August 31, 1950 in Winnenden/Germany
2 children, born 1978 and 1981

Business Address: Helmholtz-Zentrum Geesthacht
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2. Education

1969 Abitur at Georg-Büchner-Gymnasium in Winnenden
1969 - 1971 Military service
1971 - 1975 Study of Metal Science at Stuttgart University
1975 Engineering Diploma: "Reactions during Liquid Phase Sintering", Stuttgart University
1978 Ph.D.: "Comparative Investigations of Liquid Phase Sintering of Fe-Cu, Fe-Sn, Cu-Bi, Cu-Sn, Ni-Bi, W-Cu", Stuttgart University
1990 Venia legendi (Habilitation) at Technische Universität Berlin; topic of the monography: "Sintering with Additives"

3. Professional Career

1969 Practical course on mechanical engineering at Kaelble KG, Backnang/Germany
1973 - 1975 Scientific Student Assistant at Pulvermetallurgisches Laboratorium of Max-Planck-Institut für Metallforschung, Institut für Werkstoffwissenschaft, Stuttgart. Areas of responsibility: Sintering of PM steels with Mn and Sn additions
1975 - 1978 Research work on Liquid Phase Sintering at Max-Planck-Institut für Metallforschung, Institut für Werkstoffwissenschaft, Pulvermetallurgisches Laboratorium, Stuttgart,
1978 Visiting Scientist at Jozef Stefan Institut, Lubljana/Slovenia Ceramics Department (6 months). Topic: "Skeleton Formation and Grain Boundary Migration in Metallic and Ceramic Sintering Systems"
1978 - 1979 Postdoc at Max-Planck-Institut für Metallforschung, Institut für Werkstoffwissenschaft, Pulvermetallurgisches Laboratorium, Stuttgart
1979 - 1992 Senior Researcher and Group Leader at the same institute. Investigations on powder metallurgy with emphasis on activated sintering, liquid phase sintering,

gas and water atomization, rapid solidification, creep, hot isostatic pressing, mechanical alloying, metall/ceramic material joints. Materials: steels, refractory metals, Cu alloys, intermetallic phases, Pt-alloys, Mo-Al₂O₃ cermets (FGM), Si₃N₄ /superalloy joints, oxide and nitride ceramics

1982 - 1983 Visiting scientist (12 months) at Massachusetts Institute of Technology, Dept. Materials Science and Engineering (Prof. Dr. R.L.Coble)

1991 Lecturer at Technical University Berlin

1992 until 2003 Director of the Institute for Materials Research of the German Aerospace Research Establishment (DLR), Cologne, and Full Professor for Applied Metals Science of Non-Ferrous Metals at RWTH Aachen. Main research topics: Al and Ti light metal alloys, MMC, CMC, metallic and ceramic coatings, materials mechanics

July 2003 until present Scientific Director of Helmholtz-Zentrum Geesthacht
Main Research Areas: Light Weight Materials, Functionalized Polymers, Coastal Research, Regenerative Medicine, Neutron and Synchrotron Research Facilities

2. Publications

More than 250 (list available on request)