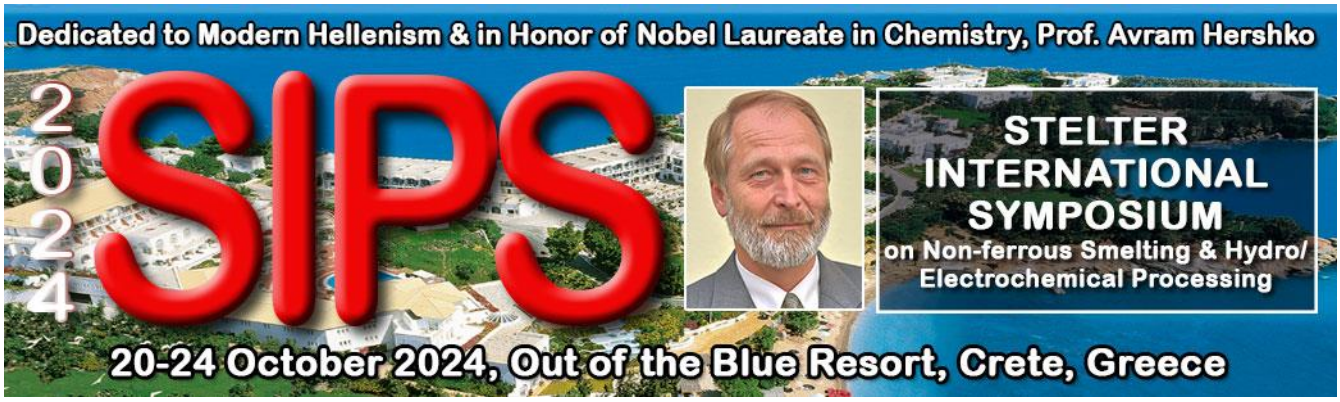

Curriculum Vitae of Michael Stelter

Stelter, Michael, Prof. Dr.-Ing.

Born: 06.08.1956, Nationality: German
Married with Margareta Stelter since 1983, 1 daughter Bettina born in 1986
Retired Full University Professor for Technology of Nonferrous Metals and Materials Recycling,
Technische Universität Bergakademie Freiberg, Institute for Nonferrous Metallurgy and Purest Materials
Leipzigerstraße 34, 09599 Freiberg / Saxony

Scientific Career

1977-1983	Study of chemistry, TU Darmstadt, Germany
1983-1987	Ph.D. Dissertation, department of inorganic and nuclear chemistry, TU Darmstadt, Subject: „Preparation and structural chemistry of alkaline-earth pentelido-aluminates, -gallates and -indates“
1983-1987	Scientific assistant, TU Darmstadt
April 1987	Ph.D. degree awarded
1987-1993	R&D department of Norddeutsche Affinerie AG, Hamburg
1989-1994	Deputy director R&D department of Norddeutsche Affinerie AG, Hamburg
1992-1994	Appointment to the board of directors of Transvaal Alloys Pty., South Africa
1994-1996	Director of the department of technology and process development, GOEMA GmbH, Vaihingen/Enz, Germany
1996-1997	Technical director of RPE GmbH, Freiberg/Breisgau
1997-2020	Full Professor and director of the institute for Nonferrous Metallurgy and Purest Materials of TU Bergakademie Freiberg, professorship in „Technology of Nonferrous Metals and Materials Recycling”
1997- 2012	Technical consultant of expert services for the Federal Ministry for Education and Research in the domain of environmental protection technology
2000-2003	Vice Rector for Education and Structural Development of TU Bergakademie Freiberg
2004-2023	Member of the Presending Board of GDMB (Society of Metallurgists and Miners, Germany)
2007-2018	Vice President of the GDMB (Society of Metallurgists and Miners, Germany)
2010-2013	Vice Rector for Research of TU Bergakademie Freiberg
2014	German Raw Materials Efficiency Award 2014
2014	“Kaiserpfalz-Preis der Metallurgie” awarded with 50,000 €
2018-2021	President of the GDMB (Society of Metallurgists and Miners, Germany)

Further Professional Activities

Membership

- GDMB Member since 1997
- GDMB Committee for Education & Training in Metallurgy, chairman
- German Association for Water, Wastewater & Waste, member of the experts committee 7.1.8
- German Society for Plating and Surface Engineering, member of the experts committee

"Environment" Editorial

Activities

- World of Metallurgy (former Erzmetall), Board of Editors since 1998 Activities in Scientific Conferences
- Membership of International organizing committee "European Metallurgical Conference 2001", Friedrichshafen, Germany
- Membership of International organizing committee "European Metallurgical Conference 2003", Hannover, Germany • Membership of International organizing committee "European Metallurgical Conference 2005", Dresden, Germany • Membership of International organizing committee "European Metallurgical Conference 2007", Düsseldorf, Germany
- Membership of International organizing committee "Copper 2007", Toronto, Canada
- Membership of International organizing committee "European Metallurgical Conference 2009", Innsbruck, Germany • Membership of International organizing committee "European Metallurgical Conference 2011", Düsseldorf, Germany
- Membership of International organizing committee "Copper Metallurgy" (50th Anniversary of KGHM), Krakow, Poland, 2011
- Membership of International organizing committee "Fray International Symposium", Cancun, Mexico, 2011
- Membership of International organizing committee "European Metallurgical Conference 2013", Weimar, Germany
- Membership of International organizing committee "European Metallurgical Conference 2015", Düsseldorf, Germany
- Membership of International organizing committee "European Metallurgical Conference 2017", Leipzig, Germany
- Membership of International organizing committee "European Metallurgical Conference 2019", Düsseldorf, Germany
- Membership of International organizing committee "European Metallurgical Conference 2021", Virtual Meeting
- Membership of International organizing committee "European Metallurgical Conference 2023", Düsseldorf, Germany

Research topics

Production, Refining and Recycling of Non-Ferrous Metals Using Environmentally Safe Technologies

- Optimization of pyrometallurgical technologies to complete the recycling of materials and to minimize ecological damage and energy consumption
- Development of methods and facilities for electrolytic and hydrometallurgical extraction of metals and refining of non-ferrous metals
- Processing of process solutions and waste solutions
- Investigations of anode and cathode processes
- Flow processes in metallurgical processing equipment
- Thermodynamic modeling of metallurgical processes

Thermodynamics, Kinetics, and Technology of Electronic Materials Production

- Modeling of the thermodynamic conditions for the production of ultra pure materials and semiconductors
- Development of methods and facilities for the growth and production of semiconductor single crystals
- Optimization of the flow conditions in crystallization processes under µg conditions (space research)
- Development of pure materials for photovoltaic applications
- Investigation and optimization of the micro- and mesoscopic homogeneity of semiconductors
- Wall-free growth of semiconductor single crystals (detached Bridgman-, Floating-Zone growth)
- Investigation of concentration and temperature dependent surface tension effects in semiconductor melts