

Resumé

Prof. Dr.-Ing. habil. Martin Sommerfeld

Personal Data

Name: Martin Sommerfeld, Professor
Occupation: Otto-von-Guericke University Magdeburg (OvGU)
Fakultät Verfahrens- und Systemtechnik, Institut für Verfahrenstechnik
Arbeitsgruppe Mehrphasenströmungen (MPS)
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Date of birth: April 21, 1953
Place of birth: Lüdenscheid, Germany
Nationality: German

Education

1974 - 1977 Engineering College in Köln
Specialization: Mechanical Engineering
Qualification: Mechanical Engineer (Ing. grad.)

1977 - 1981 Technical University of Aachen (RWTH Aachen)
Specialization: Aeronautics and Space Science
Qualification: Dipl.-Ing.

Professional Experience and Academic Qualifications

1981 - 1984 Research assistant at the Shock Wave Laboratory,
RWTH-Aachen

1984 Ph.D. (Dr.-Ing.) on “Unsteady shock wave propagation
in gas-particle mixtures”

1984 - 1985 Research fellowship of the Japan Society for Promotion
of Science and the Alexander von Humboldt Foundation
at the Department of Aeronautical Engineering, Kyoto
University, Japan

1985 - 1986 Research assistant at the Shock Wave Laboratory,
RWTH-Aachen

1986 - 1987 Research assistant at the Institute of Fluid Mechanics,
University of Erlangen (Prof. Dr. Dr. h.c. F. Durst)

1987 - 1994 Head of the research group “Two-Phase Flows” at the
Institute of Fluid Mechanics, University of Erlangen

**Oct. 1994 –
December 2016** **Professor of Mechanical Process Engineering at the
Martin-Luther-Universität Halle-Wittenberg**

Oct. 1997 -
Sept. 1998 Dean of the Department Process Engineering at the
Martin-Luther-Universität Halle-Wittenberg

Oct. 1998 -
Aug. 2000 Dean of the Department Engineering Science at the
Martin-Luther-Universität Halle-Wittenberg

since 1999 Chairman of the Instituts für Partikel- und Umwelttechnologie e.V.
(2002 – 2007 Aninstitut der Martin-Luther-Universität Halle-
Wittenberg)

since January 2017	Professor at the Otto-von-Guericke University Magdeburg (OvGU) Fakultät Verfahrens- und Systemtechnik, Institut für Verfahrenstechnik, Arbeitsgruppe Mehrphasenströmungen
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Awards

- Best Paper Award of Measurement Science & Technology in 1994
- **DECHEMA Award 1996 for contributions to multiphase flow measurements, modelling, and numerical prediction**
- Robert T. Knapp Award for the contribution to the 2009 ASME Fluids Engineering Division Summer Meeting, Manuscript: FEDSM2009-78072, Title: Direct Numerical Simulations of Colliding Particles Suspended in Homogeneous Isotropic Turbulence.

Publications

185 reviewed Journal Publications
6 Books and Monographs
35 Reviewed Book Contributions
196 Publications in Conference Proceedings (excluding abstracts only contributions)
341 Presentations on Conferences (only abstract) and courses/summerschools
16 Editor of Conference Proceedings
Organisation and lecturing at numerous courses and summer schools

SOPUS Information:

Author ID: 7007025133

Publication range: 1985 - 2016

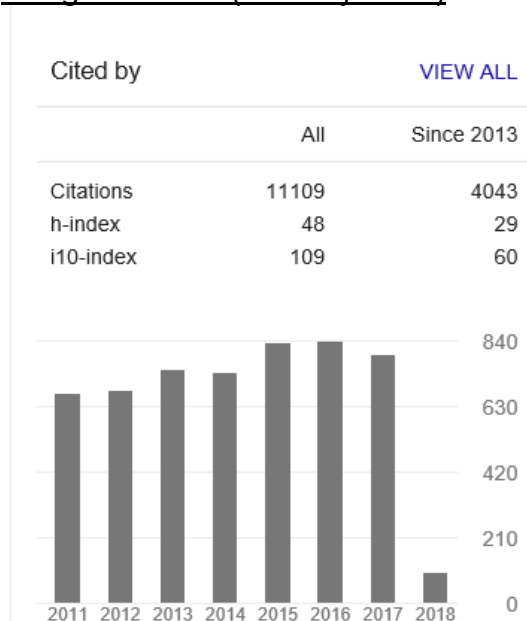
Citations: 3966 total citations by 2792 documents

h-Index: 35

Co-authors: 116

Subject area: Engineering, Chemical Engineering, Fluid Mechanics

Google Scholar (January 2018)



Membership

- VDI (Verein Deutscher Ingenieure)
- Dechema (Deutsche Gesellschaft für Chemisches Apparatewesen, Chemische Technik und Biotechnologie)
- Member of the “Scientific Programme Committee” of the European Research Community on Flow, Turbulence and Combustion (ERCOFTAC)
- Coordinator of the ERCOFTAC Special Interest Group No. 12 on “Dispersed Turbulent Two-Phase Flows”
- Coordinator of the ERCOFTAC Special Interest Group No. 46 on “Oil, Gas and Petroleum”, since 2016
- Coordinator of the ERCOFTAC Pilot Centre Germany North, since 2016
- Coordinator of the DFG (German research council) priority research programme „Analyse, Modellbildung und Berechnung mehrphasiger Strömungen“ (period 1996 – 2002)
- Corresponding Member of the Japanese Society for Multiphase Flow (since 2000)
- Governing Board of the International Conference on Multiphase Flows (since 1994 – 2004)
- Member of the senates- and grants-committee for research centres at the DFG (German research council), 2007 – 2012
- Chairman of the ProcessNet working group “Computational Fluid Dynamics” since 2010

Organization of Conferences and Courses

- Organiser of the Workshop series "Workshop on Two-Phase Flow Predictions" Universität Erlangen-Nürnberg (1987, 1990, 1992, 1994)
- Co-Chair of the ASME Symposia “Numerical Methods for Multiphase Flows“ (1994, 1996, 2000, 2002, 2004)
- Organiser of the Workshop series "Workshop on Two-Phase Flow Predictions" Martin-Luther-Universität Halle-Wittenberg (1996, 1999, 2002, 2005, 2010, 2012, 2015)
- Organising Committee: International Symposium on Turbulence and Shear Flow Phenomena, Santa Barbara 1999, Stockholm 2001
- **Organisation of the courses “Best Practice Guidance Series CFD for Dispersed Multiphase Flows”, Chalmers University of Technology, October 2007; University Florence, Italy, October 2009; KTH Stockholm, Sweden, June 2011; University of Graz, Austria, July 2012, GE Global Research Center, Garching, April 2014, Imperial College London, GB, October 2015, KTH Stockholm, Sweden, October 2016, November 2017, OVGU Magdeburg, Germany**
- Co-Chair of the ASME Symposium on “Data for Validation of Multiphase Flow CFD Codes” (1994)
- Organiser of the ERCOFTAC Summerschool “Numerical Modelling and Prediction of Dispersed Two-Phase Flows”, Merseburg, Sept. 1995 (Organisator)
- Organiser of a mini-symposium “Multiphase Flows“ at the EUROMECH 3rd European Fluid Mechanics Conference, Göttingen, Sept. 1997
- Organiser of a mini-symposium “Multiphase Flows“ at the 4th European Computational Fluid Dynamics Conference (ECCOMAS), Athens, Sept. 1998
- Organisator der 4. Merseburger Fachtagung Automatisierung, Meßmethoden und Experimente in der Mechanischen Verfahrenstechnik, Nov. 1999

- Chairman of the EUROMECH Colloquium 447 “Interaction Phenomena in Turbulent Particle-Laden Flows”, Tallinn, Estland, Juni 2003
- Organising Committee: IUTAM Symposium on "Computational Approaches to disperse multiphase flow", Argonne National Laboratory Argonne, Illinois, October 4th to 7th, 2004
- Organiser of the ERCOFTAC Summerschool “Experiments, Modelling, and Numerical Calculation for Dispersed Multiphase Flow, Merseburg, July 2001
- **Chairman of the 6th International Conference on Multiphase Flow, ICMF`2007 in Leipzig, Germany**
- Organiser of the ERCOFTAC Summerschool “Modelling of Atomisation and Sprays for Technical and Industrial Applications”, Halle (Saale), Germany, July 2008
- Scientific Committee: International Conference on Multiphase Flow in Industrial Plants, Palermo Italy, Sept. 2008; Ischia (Napoli) Italy, Sept. 2011; Sestri Levante (Genova) Italy, Sept., 2014
- Conference Chairman of the 6th International Symposium on Multiphase Fluid, Heat Mass Transfer and Energy Conversion, Xi`an China, 2009
- Organisation of the Course: Übersicht zur numerischen Berechnung von Mehrphasenströmungen. SPP 1273 Workshop „Modellierung und Simulation kolloidaler Systeme“, Halle (Saale), 26. – 27. Februar (2009)
- Conference co-chair: ASME 2012 3rd Joint US-European Fluids Engineering Division Summer Meeting, Montreal, Canada, 1. – 5. August 2010
- International Advisory Board: 7th International Symposium on Measurement Techniques for Multiphase Flows (ISMTMF-2011)
- Conference co-chair: ASME 2014 4th Joint US-European Fluids Engineering Division Summer Meeting, Chicago, USA, 3. – 7. August 2014
- Organiser of the COST Action FP1005 Training School: Behaviour of Regular and Irregular Non-Spherical in Laminar and Turbulent Flows, Halle (Saale) Germany, May 27-29, 2015